September 19, 2008

David Gardner, Chair, Academic Senate

RE: Proposal for a Master's of Science Degree in Dental Hygiene

Dear Chair Gardner:

We are pleased to inform you that the Graduate Council unanimously approved the proposal to establish a Master's of Science Degree in Dental Hygiene. The program will reside in the Department of Preventive and Restorative Dental Sciences in the School of Dentistry.

The program is being established at a time when there is a clear and urgent public health need for graduate level hygienists in teaching, research, and oral health care administration. The program draws on the talents of a large number of outstanding faculty in the School of Dentistry and an established programmatic infrastructure in Oral and Craniofacial Sciences, Preventive and Restorative Dental Sciences, and Public Health. The Council felt the program curriculum to be logically constructed with well-defined goals and assessment methods. The program structure allows sufficient time for completion of the degree in one year. The Council felt strongly the one quarter requirement for field work will be a valuable experience for graduates of the program as they enter important positions in teaching, industry, and public health.

Beginning in the 2009-2010 academic year, the program plans to enroll twelve students per year. A $10,000 professional fee will be assessed, in addition to the normal state and campus mandated fees and tuition. We have been informed that the School of Dentistry and the UCSF Budget Office have finalized an application to the Regents for approval of the professional fee.

In conclusion, the MS in Dental Hygiene will make an important contribution to the educational mission of UCSF and we commend the Steering Committee for submitting an outstanding proposal.

Sincerely,

Jeff Lansman, Ph.D.
Chair, Graduate Council

Patricia Calarco, Ph.D.
Dean, Graduate Division

C: Dean John Featherstone
   Department Chair William Bird
   Professor Margaret Walsh
   Graduate Council Co-Chair Elizabeth Watkins
   Assistant Dean Karen Nelson
   Senate Analyst Heather Alden
PROPOSAL TO ESTABLISH A PROGRAM
OF GRADUATE STUDIES IN DENTAL HYGIENE AT UCSF FOR THE M.S. DEGREE

Department of Preventive and Restorative Dental Sciences
University of California, San Francisco

August 21, 2008

Steering Committee

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SECTION 1: INTRODUCTION

1.1 Aims and Objectives

The mission of the Department of Preventive and Restorative Dental Sciences (PRDS) at the University of California San Francisco (UCSF) School of Dentistry (S/D) is to lead the world in improving the oral health of the public through advancements in education, research, service and their application to preventive and restorative care.

The UCSF S/D seeks to establish a new multidisciplinary curriculum of graduate study leading to a Master of Science Degree in Dental Hygiene (MS). Graduates will be prepared to engage in multidisciplinary problem solving related to oral disease prevention and health promotion across the lifespan to improve the oral health of varied populations. Graduates will be prepared to assume roles in education and research collaboration in academic and public health settings and in the oral healthcare industry. After this MS degree is established, a DrDH program will be proposed with a focus on dental hygiene research related to oral disease prevention and health promotion. (See Appendix A for letters of support from UCSF administrators and from Dental Hygiene Professional organizations. Also see Appendix B for letters of support and commitment from all Dental Hygiene Program Directors in California.)

1.2 Contextual Factors, Overview of the Field, Historical Development, and Institutional Strengths

1.2.1. Contextual Factors

Many reasons can be cited for enacting the current proposal to develop a program of rigorous academic studies for graduate dental hygienists including:

1) The need to do more to eliminate oral health disparities: The U.S. Surgeon General reported in May 2000, that a “silent epidemic” of oral diseases is affecting the most vulnerable segments of our population --- children who live in poverty, the elderly, populations with low income and educational levels, special needs, those who live in communities without access to oral health services, and many members of racial and ethnic minority groups. Multiple factors exacerbate oral health disparities: the current structure of the oral healthcare delivery system; maldistribution of providers; lack of diversity among providers; restrictive regulatory statutes; geographic, educational and cultural barriers; oral health literacy; and financing of care. In 2003, the Surgeon General released A National Call to Action to Promote Oral Health highlighting that oral health is essential to health and well being at every stage of life and urging the public, health professionals, and policymakers to improve efforts to increase the affordability and accessibility of oral health care to the underserved. The report urged partnerships at local, state and national levels to engage in programs to promote oral health and disease prevention. Leaders in Dental Hygiene are
needed to help create effective interdisciplinary strategies to improve access to dental hygiene care.

2) The oral health-systemic connection: Oral health is an integral part or overall health. Oral tissues reflect and affect general health and disease. Oral tissues not only signal presence of general disease, disease progression, or exposure to general health risk factors, they also act as a portal of entry for infections. Examination of oral tissues can detect microbial infections, immune disorders, and some cancers. Associations between chronic oral infection and systemic health have been reported for diabetes, cardiovascular and lung disease, stroke, brain abscess, low birth weight and premature births, underscoring the importance of oral health services for all individuals. Oral health also is related to quality of life since oral problems compromise ability to chew food, diet, nutrition, sleep, psychological status, social interactions, intimacy and ability to function at school and work. For example, an estimated 54 million lost school hours per year have been reported in California due to children’s oral health problems. Improving the oral health and thus the general health of all Americans and of high risk persons in other countries requires comprehensive collaboration across disciplines. Dental disease prevention, oral health promotion and treatment of oral infection are essential elements of comprehensive, multidisciplinary healthcare. Creative multidisciplinary approaches to address oral disease prevention and health promotion are needed to solve existing and emerging problems. Academic leaders in Dental Hygiene are needed to bring the dental hygiene perspective to the problem solving process.

3) The shortage of dental hygiene educators: In California, two-year basic preparation programs have increased from 5 in 1962 to 23 in 2007 and they continue to increase in the state and in the Nation. There is a strong need for qualified faculty to teach and direct these professional programs. The growing need for dental hygiene educators and administrators is well documented. A 2002-03 survey of 264 entry-level dental hygiene programs in the U.S. conducted by the American Dental Education Association concluded with regard to entry-level dental hygiene educational programs that “there is in fact not only a current faculty shortage, particularly in the area of culturally diverse educators, but the dearth of qualified faculty will likely be of critical proportions in the very near future.” The same survey reported that 38% of the dental hygiene programs responding had unfilled faculty vacancies due to a lack of qualified applicants. In addition, 68% of dental hygiene program directors indicated a need to replace fulltime faculty within the next 5 years due to projected retirement. Compounding the problems associated with the very small number of dental hygienists entering academic careers is the aging of the current faculty and the potential leadership vacuum in the near future caused by the retirement of the current dental hygiene educators. The University’s system-wide Health Sciences Committee (HSC) 2005 report entitled the University of California Health Sciences Education Workforce Needs and Enrollment Planning cites “current and looming faculty shortages” as one of the most relevant current challenges facing “health sciences education as an enterprise” in California and
4) Increased geriatric demand for dental hygienists: Between 2004 and 2020 the older adult population is expected to grow at more than twice the rate of the total population. The number of individuals aged 65 and older in California is already higher than any other state in the Nation. It is projected that by 2025, in California there will be a 58% increase in people 65-84 years old and a 49% increase in those 85 years and older. In addition, the older adult population is more racially and ethnically diverse, and are concentrated in key states such as California, New York, Florida and Pennsylvania. Unlike previous generations, this elder population is expected to retain many of their teeth and want oral health professionals to manage and provide their care.

The current and projected demographic changes in the numbers, composition, and proportion of older adults within the population have a major impact on our society and important policy implications for federal, state, and local governments. For example, as of October 1990, nursing home facilities must ensure that all residents be provided with emergency oral care, furnished with a referral list of dentists, and have dental care – preventive and therapeutic – as promulgated by the State Medicaid Act. The U.S. Bureau of Labor statistics has projected that the demand for dental hygienists will increase by 37% or more between now and the year 2010 with a concomitant increased demand for dental hygiene educators and educational programs.

5) The supply of, and demand for, health professionals: As of 2007, nationally there are 289 accredited dental hygiene programs and 56 accredited dental schools. According to the American Dental Education Association, the number of graduates from dental hygiene programs continues to outpace those of dental schools. The rate of growth for dental hygienists from 2004-2014 is projected at 43.3%. With regard to the supply of and demand for health professionals and changing scope of practice, the University’s system-wide 2005 report on the University of California Health Sciences Education Workforce Needs and Enrollment Planning states: “The prevalence of managed care has led to changing needs for different numbers and types of providers. Expansion of the scope of practice, and related changes in billing and payment rights create, for some providers, (e.g., optometrists, pharmacists, nurse practitioners, physician assistants, and dental hygienists), opportunities to redefine the boundaries between professions that deliver similar services and to train an interdisciplinary workforce.” Therefore, capacity building is needed to prepare academic leaders and educators in Dental Hygiene to participate in interdisciplinary healthcare workforce discussions and to address innovation in educational programs required.

The reasons discussed above create an imperative to develop a program of rigorous academic studies for graduate dental hygienists. As a premier university devoted solely to the health sciences, UCSF is uniquely positioned to develop a multidisciplinary program that brings to bear the expertise of faculty in basic biomedical, social, and behavioral sciences; clinical science; geriatrics, epidemiology, dental public health, and health policy. The next generation of dental hygiene educators, researchers, clinicians,
and policy leaders in oral disease prevention and health promotion need to be well-trained in how to draw upon and integrate skills, perspectives, and expertise provided by all of these disciplines.

1.2.2. Overview of the Field

Dental Hygiene as a discipline is the study of preventive oral healthcare including the management of behaviors to prevent oral disease and to promote health.\textsuperscript{12,13,14,15} The four inter-related paradigm concepts selected for study are the Client, the Environment, Health/Oral Health, and Dental Hygiene Actions. The concept of the Client is viewed as a biological, psychological, spiritual, social, cultural, and intellectual human being and includes individuals, families, groups and communities of all ages, ethnicities and sociocultural and economic states. The Environment is defined as the milieu in which the client and dental hygienist find themselves. The Environment affects the client and the dental hygienist and both are capable of influencing the environment. The concept of Environment includes dimensions such as political, economic, educational, geographic, legal, physical, social, ethnic, and cultural factors that influence health and oral health. The concept of Health/Oral Health is viewed as the client’s state of being that exists on a continuum from optimal wellness to illness and fluctuates over time as the result of biologic, psychological, spiritual and developmental factors. Oral health and overall health are interrelated because each influences the other. The concept of Dental Hygiene Actions is viewed as interventions that a dental hygienist can initiate to promote oral wellness and to prevent or control oral disease. These actions may be provided in independent, interdependent, and collaborative relationships with the client and other healthcare professionals. These four global paradigm concepts central to the discipline of Dental Hygiene have been and continue to be further defined and expanded into various conceptual models that drive dental hygiene education, research, and practice.\textsuperscript{16,17,18,19,20,21,22}

As oral healthcare professionals, dental hygienists are licensed and serve as clinicians, oral health educators, managers, consumer advocates, change agents, and researchers.\textsuperscript{23,24,25,26} They pursue careers in clinical practice, public health, private industry, academia, or with other government agencies. In clinical practice, they provide care to prevent oral disease and promote health in private dental offices, hospitals, and convalescent homes. Dental hygienists employed in public health settings (e.g., community clinics; nursing homes; elementary, middle, and high schools) screen for oral healthcare needs, plan oral health programs, and provide clinical and educational services.\textsuperscript{27} Dental hygienists employed in private industry participate in research and development and product marketing programs. Finally, dental hygienists employed in university, state, and community college academic arenas, are responsible for the professional education of student dental hygienists and other healthcare professionals and engage in research. Currently the estimated number of dental hygienists in California is 53 per 100,000 population.\textsuperscript{28}

Graduate education in Dental Hygiene began in the 1950s with the opening of master's degree programs in Dental Hygiene at Columbia University, University of Michigan, University of Iowa, and University of Missouri at Kansas City. Currently, there are no public or private graduate programs in Dental Hygiene in California. There are
however, 13 Master of Science Degree programs in Dental Hygiene to date located in the following educational institutions: University of Missouri at Kansas City, University of Minnesota; Baylor College of Dentistry, a Component of the Texas A&M University System Health Science Center; Old Dominion University, Norfolk, VA; Idaho State University; University of North Carolina at Chapel Hill; University of New Mexico; University of Texas Health Science Center at San Antonio; University of Maryland; West Virginia University; University of Michigan, University of Bridgeport and the University of Tennessee. The curricula of these programs emphasize teacher preparation and include a research component to prepare graduates to engage in scholarly activity and to contribute to research in academic settings. To date, there are no doctoral programs in dental hygiene.

1.2.3. Historical Development

Dental hygiene as a field of study began in 1913 when Dr. Alfred C. Fones of Bridgeport, Connecticut, organized a course of formal training in oral prophylaxis for young women. In 1918, UCSF established a one year program in Dental Hygiene. The course of study was lengthened to two years in 1924 upon recognition that the development of technical skills alone was insufficient and that knowledge and understanding of basic and dental sciences were necessary to provide optimum dental hygiene care. From its inception, the incorporation of the UCSF dental hygiene curriculum into the UCSF pre-doctoral dental curriculum made the UCSF basic preparation dental hygiene educational program unique and of very high quality. In 1941, under the leadership of the S/D Dean, Dr. Guy S. Millberry, the Bachelor of Science degree in Dental Hygiene was approved. The purpose of the UCSF Bachelor of Science degree in Dental Hygiene program was to prepare biomedically-oriented, technically-skilled dental hygiene practitioners and oral health educators.

In 1978, UCSF S/D was one of the first institutions in the nation to receive a federal grant to initiate advanced dental hygiene training in the administration of intraoral local anesthetics, nitrous oxide-oxygen analgesia, and gingival soft tissue curettage. Based on the success of this training program, in 1979, the State of California became one of the first to legislate these expanded dental hygiene functions which are now legal for dental hygienists to perform in 40 states.

In 1997, Assembly Bill (AB) 560 was passed in California creating a new licensing category for dental hygienists, the Registered Dental Hygienist in Alternative Practice (RDHAP). AB 560 allows the RDHAP to provide dental hygiene care without supervision of a dentist: in the following settings: residences for the homebound, schools, residential facilities and other institutions, and in dental health professional shortage areas, as certified by the Office of Statewide Health Planning and Development. The RDHAP licensing category was created in response to the need to increase the efficiency and availability of oral healthcare for older adults and children. Currently, California has the largest elderly population in the nation and this group is expected to grow at more than twice the rate of the total population by 2020. Moreover, with the expected 22.3% growth in total population in California counties by 2015, the number of children requiring dental care will increase substantially.
In 2003, the UCSF S/D declared a moratorium on its Bachelor of Science Degree in Dental Hygiene program. One reason cited in the final white paper report of the Systemwide Health Science Committee on Dental Education and the University of California was:

“In recent years, California’s community colleges expanded their capacity to grant associate degrees in dental hygiene, which fully qualify the holder for state licensure…. The current suspension of new enrollments in the [UCSF baccalaureate entry-level dental hygiene] program will permit the faculty to restructure the program to offer … a master’s program”.

Thus, the proposed new MS Degree in Dental Hygiene program has been identified as a need in the 2006 UCSF S/D’s Five Year Strategic Plan and will be the only MS Degree in Dental Hygiene program offered in California.

1.2.4. Institutional Strengths
UCSF has several programs, institutes, and centers from which to draw faculty resources. The proposed new degree program will be enriched by several other educational activities that are now in place. These are listed below:

1.2.4.1. S/D Department of Preventive and Restorative Dental Sciences (PRDS)

The PRDS Department includes the Divisions of Behavioral Sciences, Professionalism and Ethics; Biomaterials and Bioengineering; General Dentistry; Endodontics; Oral Epidemiology and Dental Public Health, and Prosthodontics. One of the great strengths of the PRDS Department is the quality, size, and diversity of the faculty. The Department conducts multidisciplinary instruction, research, and patient care programs through its 6 Divisions. Faculty in this department will become course leaders or guest lecturers in the proposed MS courses. For example, the didactic training in Research Methods and Design integrated into the proposed MSDH curriculum will draw from an existing course in the Division of Oral Epidemiology and Dental Public Health. In addition, the proposed new MS courses will be housed in this Department. Research in the department spans the spectrum from behavioral to basic science through translation to clinical research. Additionally, several PRDS faculty working in the following research groups housed in PRDS may become research mentors for MS in Dental Hygiene students as well as guest lecturers in the proposed MS courses.

- The Center to Address Disparities in Children’s Oral Health, a non-ORU center, with a research mission to identify cultural, environmental, workforce, behavioral and biological factors associated with health disparities among ethnic/racial groups in the very diverse California environment; to enhance our ability to target children likely to be at risk for dental caries; and to provide successful interdisciplinary interventions to prevent disease and reduce oral health disparities.

- The Caries Management by Risk Assessment Research Group that leads the world in studying caries balance and prevention and management of dental caries by risk assessment and management.
• The Bio-Engineering research group that is a national leader in the understanding of dental hard tissues and clinically induced degradation of dental restorations, and the Biomaterials, Biosciences and Engineering program

• The Center for Health Improvement and Prevention, a multi-disciplinary research team that aims to improve health outcomes by conducting clinically-relevant behavioral research.

• The Dental Public Health Residency Program, the only one on the West Coast, and includes a Dental Public Health seminar series with many relevant topics.

In addition, the Department of PRDS has formal affiliations with 8 Northern California basic preparation dental hygiene educational programs and the 23 state-wide community clinic programs both rural and urban which will provide opportunities for field work for MS Degree in Dental Hygiene students.

1.2.4.2. S/D Department of Orofacial Sciences (OFS)

The Department of Orofacial Sciences houses the Divisions of: Craniofacial Anomalies; Oral Medicine, Oral Pathology and Oral Radiology; Orthodontics; Pediatric Dentistry; and Periodontology. Research in the Department covers a broad spectrum of basic, translational and clinical sciences that complement the clinical activities of the Department. These include extramurally funded studies of oral mucosal and salivary gland diseases, including those common in people with HIV infection (conducted through the Oral AIDS Center), oral cancer, xerostomia, Sjogren’s Syndrome (the Sjogren’s International Collaborative Clinical Alliance), and new methods for diagnosing and treating periodontal diseases. In addition, clinical research studies assess the effect of orthodontic treatment on the form and function of the craniofacial complex, new approaches to imaging, the interrelationships of the neuromuscular systems on muscle function and bone growth, and seek to understand the variations in outcome of interdisciplinary treatment of patients with craniofacial anomalies. Studies of enamel and dentin formation are key to new initiatives for tissue engineering of tooth structures, as well as for understanding dental pathologies such as fluorosis and amelogenesis imperfecta.

Patient treatment services provide the highest level of patient care focusing on the latest and most effective treatment methods. The Oral Medicine Clinical Center specializes in the diagnosis and treatment of oral soft tissue and salivary gland diseases and serves as the basis for predoctoral student education. The Oral Pathology Diagnostic Laboratory offers world-class tissue diagnostic services for dental and medical practitioners. Orthodontics provides state-of-the-art care for children and adults with dental malocclusions. Pediatric Dentistry provides primary and tertiary care for dental diseases and prevention for infants and children. Periodontology focuses on the diagnosis and management of the various periodontal conditions and provides treatment with osseo-integrated implants. The Center for Craniofacial Anomalies provides multidisciplinary consultation and comprehensive treatment of children with various birth defects. One of the great strengths of this Department is the quality and diversity of the faculty. The Department also supports the S/D teaching programs focusing primarily on dental students. Faculty in this department may become mentors for MS students and will provide lectures in the proposed MS courses.
1.2.4.3. S/D Department of Oral and Maxillofacial Surgery (OMFS)

The Department of OMFS teaches both theoretical and clinical courses in the predoctoral dental curriculum and offers instruction in medial emergencies. Basic research in the Department includes investigations of the mechanisms of bone growth and replacement, the use of lasers, mechanisms of pain, and studies of treatment and outcomes of implant, orthognathic, temporo-mandibular joint, and reconstructive surgeries. The department provides clinical care in oral and maxillofacial surgery to ambulatory patients at the Dental Clinics Building, the postgraduate OMFS Clinic at Moffitt Hospital, and the oral and maxillofacial surgery clinic at San Francisco General Hospital (SFGH). Treatment for hospitalized patients is provided at Moffitt/Long Hospital, SFGH, UCSF/Mount Zion, and Veterans Affairs Medical Center. The department also provides elective courses in oral and maxillofacial surgery at SFGH and implant clerkships where students learn to assist with surgical procedures. Faculty in this department may become mentors for MS students as well as provide lectures in the proposed MS courses.

1.2.4.4. S/D Department of Cell and Tissue Biology (CTB)

The Department of CTB has active research programs in cell and developmental biology, tissue remodeling and repair, genesis and progression of head and neck cancers, and molecular pathogenesis, and the study of oral biofilm. Currently PRDS collaborates with OFS to fund an FTE dedicated to the study of oral biofilm. National Institutes of Health-supported centers and programs in this department include the Comprehensive Oral Health Research Center which focuses on strategies for promoting tissue repair, the UCSF Oral Cancer Research Center, which is concerned with the genesis and progression of oral cancer, and a project to catalogue the salivary proteome. The Department also is the home for the UCSF campus-wide program in Craniofacial and Mesenchymal Biology (CMB). This program focuses on basic and translational research related to cellular and morphogenetic processes underlying development. The Department is also one of the founders of the new UCSF campus-wide Program in Microbial Pathogenesis. Research within the department related to this area currently focuses on bacterial adherence mechanisms, oral candidiasis, and viral infections in the placenta and immune protection. Faculty in the Department teach in the Biomedical Sciences course sequence in the DDS pre-doctoral program, with a focus on human anatomy and embryology, head and neck anatomy, histology and neuroscience. CTB faculty also teach in the Biomedical Sciences Graduate Program and Oral and Craniofacial Sciences Graduate Program. Faculty in this department may become mentors for MS students as well as guest lecturers in the proposed MS courses.

1.2.4.5. S/D Center for Health Professions

The mission of this Center is to assist healthcare professionals, health professions schools, care delivery organizations and public policy makers respond to the challenges of educating and managing a healthcare workforce capable of improving the health and well being of people and their communities. The Center focuses its efforts on understanding the challenges faced by the healthcare workforce and developing programs and resources that assist in making successful transitions to the emergent healthcare systems. Faculty associated with this Center
will teach the required leadership course series in the MSDH curriculum and may become mentors for MS students as well as guest lecturers in the other proposed MS courses.

1.2.4.6. School of Nursing (SON) Department of Physiological Nursing

The UCSF Department of Physiological Nursing offers a curriculum to prepare Gerontological Nurse Practitioners. As part of the proposed MS program in Dental Hygiene, N295A, offered by the Department of Physiological Nursing, has been integrated into the proposed MS curriculum as a core required course. Dental Hygiene graduate students will receive didactic training in care of the older adult by nursing faculty in collaboration with dental hygiene faculty already trained in course content. The latter will supervise and evaluate assigned course-related projects completed by dental hygiene graduate students. In addition, nursing faculty in this Department will become mentors for MS Dental Hygiene students as well as guest lecturers in other courses in the MS curriculum.

1.2.4.7. SON Department of Social and Behavioral Sciences (SBS)

The SON Department of SBS offers courses of study leading to a PhD in Medical Sociology, with major emphasis on the sociology of health, medicine, and healthcare systems, and also courses of study for nurses leading to an MS or PhD with a concentration in health policy. S235, S236 and S211 A, B, C courses, taught by Department of Social and Behavioral Sciences faculty, will be included as required courses in the MSDH curriculum. Faculty from SBS may mentor graduate MSDH students in the development of their field projects and also may provide guest lectures in the proposed MS program.

1.2.4.8. SON John Hartford Center for Excellence in Geriatric Nursing

The UCSF/John A. Hartford Center of Geriatric Nursing Excellence (HCGNE), housed in the Department of Physiological Nursing (HCGNE) is one of five centers in the United States to build academic geriatric capacity. The mission of the UCSF HCGNE is to prepare critically necessary academic leadership in teaching, gerontological research, and practice in geriatric nursing, with the goal of improving the quality of life of older Americans by alleviating the problems that older people face each day. The HCGNE will provide MSDH students the opportunity to participate in cutting-edge research under the leadership of world-renowned research scientists. Currently PRDS Faculty also are members of this center and support collaborative research.

1.2.4.9. UCSF Academic Geriatric Resource Center (AGRC)

The mission of the UCSF AGRC is to address the unique health care needs of the rapidly growing population of older adults in California by providing geriatric education to healthcare providers and by advancing public education and research in geriatrics. Currently PRDS Faculty are involved with this Center and assist with the up-dating of geriatric oral health resources for health professionals. These resources will be incorporated as part of the proposed MS in Dental Hygiene Program’s core course on Dental Hygiene and Oral Disease Prevention and Management by Risk Assessment. In addition, students with interests in geriatrics may be mentored by faculty associated with the AGRC.
1.2.4.10. Global Health Sciences (GHS)

Global Health Sciences, a Department that reports directly to the Chancellor, supports international health research and teaching. GHS faculty teach at the School of Medicine and the School of Public Health at the University of California, Berkeley (UCB). GHS has a proposal for a new MS degree in GHS that has received campus approval and is under review for system-wide approval.

GHS will be a potential source of research project linkages and placements for the MS in Dental Hygiene students as they pursue their experiential field work learning. Since GHS has linkages with several field sites for research and training activities. Students interested in participating in interdisciplinary research to solve international problems may be mentored by GHS faculty.

1.2.4.11. Center for Tobacco Control Research and Education (CTCRE)

The CTCRE is a campus-wide non-ORU center that provides a focal point for work of 30 faculty members from all four schools at UCSF and the School of Public Health at UCB. The center aims to reduce 450 million deaths worldwide that tobacco and the tobacco industry cause each year. The work of the Center spans policy and historical research, economics, public health interventions, basic science (particularly around secondhand smoke and nicotine pharmacology) and clinical interventions. The Center houses an interdisciplinary postdoctoral fellowship program and has provided research opportunities for students in medicine and nursing as well as MPH and PHD students from UCB. The work is designed to inform and improve the effectiveness of public health and clinical interventions to reduce tobacco use. It works closely with the UCSF Library’s efforts to collect and preserve millions of pages of previously secret tobacco industry documents, such as those available at the Legacy Tobacco Documents Library. The Center can offer library resources and possible mentorship to masters students in dental hygiene who are interested in tobacco-related projects. (Pending)

1.2.4.12. Center for Health and Community (CHC)

The CHC, a non-ORU center, was established to assess the challenges of the changing healthcare delivery environment and identify policies and interventions that will maximize the beneficial impact of the changing healthcare delivery system. The Center is comprised of interdisciplinary programs and individual faculty from all UCSF Schools who have been engaged in health services and policy-related research for many years. A major focus of the research is in health disparities worldwide. CHC programs offer graduate degrees in social and behavioral sciences related to health through the Department of Behavioral and Social Sciences and the Department of Anthropology, History, and Social Medicine. Faculty from this Center may provide lectures and mentorship to students involved in the proposed MS program.

1.2.4.13. Summary of Strengths

UCSF clearly has the intellectual capital and programmatic resources to initiate an MS program in Dental Hygiene Sciences that will attract new scholars throughout the UC and
California State University systems, as well as from other institutions nationally, and internationally. The proposed new interdisciplinary MSDH program will offer a program of rigorous academic studies in dental hygiene sciences to prepare academically motivated dental hygienists to engage in multidisciplinary problem solving related to oral disease prevention and health promotion across the lifespan to improve the health of at-risk people throughout the world. Graduates will assume roles as educators and research collaborators in academic and public health settings and in the oral healthcare-related industry.

1.3 Timetable for Development, Including Enrollment Projections

We have developed a new overall curriculum in Dental Hygiene Sciences. PRDS plans for students to matriculate into the program beginning in the Summer of 2009. The program anticipates enrolling 12 students per year. Funding from the PRDS Department is committed for startup to support administrative and faculty time (Total faculty FTE = 1.0). Once approval of the program is received, we will advertise for admissions into the next full academic year. The proposed timeline for developing the MS program is shown in Table 1.

Table 1: Timeline

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Budget</th>
<th>Faculty</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draft revised MSDH proposal and submit to S/D Dean and then Faculty Council</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submit MSDH proposal to Graduate Division</td>
<td></td>
<td>Recruitment of course guest lecturers</td>
<td></td>
</tr>
<tr>
<td>Submit MSDH proposal to Graduate Council</td>
<td></td>
<td>Confirmation of guest lecturers</td>
<td></td>
</tr>
<tr>
<td>Revise</td>
<td>Budget submission to budget office</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revise</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submit for approval By Graduate Council</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduate Council Approval</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submit to Academic Senate Executive Committee</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Academic Senate Executive Committee approval</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Approval of Divisional Academic Senate</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Submit to Chancellor Chancellor Approval</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Submit to System-wide Coordinating Committee of Graduate Affairs (CCGA)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCGA approval</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office of the President approval</td>
<td></td>
<td>After approval, Recruit students</td>
<td></td>
</tr>
</tbody>
</table>
1.4. Relation of Program to Existing Programs on Campus and the Campus Academic Plan

The proposed MSDH program will be the first MS Degree in Dental Hygiene Program in the state of California. The program’s administrative home will be in the Department of PRDS in the UCSF School of Dentistry. An Executive Committee established within the Department will oversee the proposed MS program (Appendix C) in collaboration with the Graduate Division. The Executive Committee will assure that where there is programmatic overlap, the program will make maximal use of existing resources and attempt to avoid duplication.

The proposed program is fully consonant with the UCSF Academic Mission of enhancing health worldwide and “…to attract and educate the nation's most promising students to future careers in the health sciences and healthcare professions…and to “serve the community at large through education and service that take advantage of the knowledge and skills of UCSF faculty, staff and students”. In addition, the proposed MSDH program has been included in the UCSF S/D’s 2006 Five Year Strategic Plan.

Historically, the graduate program in Oral and Craniofacial Sciences, formerly known as the M.S. in Oral Biology program, in the UCSF S/D has enrolled six dental hygienists over the last 30 years (one in 1977; one in 1980; one in 1988; one in 1989; one in 1992; and one in 2003). In 1989, UCSF approved 9 units of graduate courses in Dental Hygiene (DH202, DH201A,B,C and DH203A,B,C) as part of a special track for dental hygienists enrolled in the MS in Oral Biology Program. These graduate dental hygiene courses have been modified for inclusion as foundation core courses in the proposed MSDH program.

The proposed MSDH program will serve a different student population than that served by the graduate program in Oral and Craniofacial Sciences. The Oral and Craniofacial Sciences program focuses on the study of tissue and cell biology, clinical research, bioengineering, and
epidemiology rather than focusing on the discipline of dental hygiene as it relates to oral
disease prevention and health promotion from the perspective of social, cultural, political,
economic, educational, and environmental determinants of health. The MSDH program will
meet the needs of dental hygienists who seek advanced training in oral disease prevention
and health promotion across the lifespan and who aspire to become academic dental hygiene
educators to meet the documented current and projected faculty shortage.

Another graduate program somewhat related to the proposed MSDH program is the M.S.
program in Health Policy in the UCSF School of Nursing. That M.S. program, however, is
targeted to nurses and we do not expect that the MSDH program will have any influence on
the number of students enrolled in that degree program. Although students in the MSDH
program are likely to take some courses sponsored by this nursing health policy graduate
program, faculty teaching efforts are not expected to be diverted from existing contributions.

The MSDH program will have little effect on the number of students enrolled in the pre-
doctoral dental program at UCSF. There may, however, be a slight beneficial effect to
pre-doctoral dental clinical instruction from the contributions made by MSDH students
as part of their field work. For example, MSDH students could assist with the teaching
of pre-doctoral dental students in such areas as administration of intra-oral local
anesthetics, ergonomics, dental charting, head/neck cancer screening, nitrous-oxide
oxygen sedation, periodontal scaling/root planing, the oral prophylaxis, periodontal
maintenance therapy, and professionalism.

The proposed new multidisciplinary MSDH program is consistent with the University’s
system-wide Health Sciences Committee (HSC) 2005 report entitled the University of
California Health Sciences Education Workforce Needs and Enrollment Planning. That
report cites “current and looming faculty shortages” as one of the most relevant current
challenges facing “health sciences education as an enterprise” in California and
nationally.

1.5 Relationship of Program with Other UC Institutions

The proposed MSDH program will be a unique training opportunity, different from any
existing graduate programs in the University of California. Thus, the proposed program
will not compete with any existing programs. Our proposed MSDH program will focus
on the incorporation of dental hygiene theories and practices related to teaching
methodologies and administrative requirements specific to basic preparation dental
hygiene education, (i.e., entry-level programs that prepare students for clinical practice).
Moreover, emphasis will be placed on the curriculum application of themes including the
oral health-systemic health connection; prevention and management of oral disease by
risk assessment across the lifespan; health promotion and oral disease prevention with
a focus on community organization; and determinants of oral health in individuals and
groups that influence oral health, health disparities, and access to care. The flavor of a
graduate program is a reflection of the research by the faculty and graduate students
associated with that program. Most of the faculty members choosing to join this
program have a mission orientation affecting the choice of research related to the
increased understanding of oral disease prevention, management, and health
promotion and/or geriatric research.
The MSDH program will interact with basic preparation dental hygiene educational programs outside the university and/or the predoctoral dental program in the UCSF S/D. These programs will provide potential sites for field work for MSDH students.

1.6 Department or Group that will Administer the Program

The Department of PRDS will administer the Program (see Appendix C for planned administrative and oversight committees). As the sponsoring Department, PRDS will recruit faculty, provide necessary administrative space, and organize administrative support for the program, thus integrating the MS program with other ongoing PRDS activities). The MSDH Program Director (Dr. M Walsh), a Professor in the Department of PRDS, will be responsible for the day-to-day oversight of the MSDH program. The UCSF Graduate Division will review academic policies and processes as mandated.

1.6.1. Student Academic Advisors

The Program Director will have the responsibility to:

- Approve study lists quarterly
- Meet with students annually to review and sign the MSDH Academic Review Form that includes a checklist of required courses and projects (Appendix E)
- Advise on program procedures
- Ensure that necessary program requirements are completed
- Counsel on such things as course progress, oral qualifying exam, field work, and the comprehensive examination (the Capstone Project)
- Will participate on the S/D’s Admission Committee Panel related to the MSDH program.

1.7. Plan for Evaluation of Program (within Department and Campuswide)

The MSDH Executive Committee of the Department of PRDS will initially review the program mid-year in the first year of the program and then every year thereafter to help refine and improve the program. The reviews will include confidential student evaluations as well as interviews with faculty, current students, and graduates of the program. This review will permit adjustments to the program as it matures.

In addition, the internal review will include an assessment of the career outcomes of the graduates of the program. At two and five years post graduation, each graduate will be requested to submit a curriculum vitae (for extracting current position, peer reviewed publications, grant funding, professional leadership roles etc) and to complete a survey assessing the impact of the program on their current skills and expertise, and how the program affected their career choice, ability to obtain a desired job, and career satisfaction.

Finally, the proposed MSDH program will be reviewed every five years by a group of outside consultants under the direction of the Graduate Council, as are all graduate academic programs.
SECTION 2: PROGRAM

2.1 Candidates for the Master’s Degree in Dental Hygiene

Candidates must meet the following minimum requirements:

- Graduated from a basic preparation dental hygiene program
- Completed a baccalaureate degree
- Demonstrate a high level of interest and potential to pursue a career as a dental hygiene educator and research collaborator in academia, public health settings, or in the oral healthcare-related industry
- Submit an application that includes a student narrative describing the individual’s career objectives;
- Complete a personal interview with members of the admissions committee
- Complete the GRE test
- Have a Minimum GPA of 3.2
- Three letters of recommendation
- Complete the TOEFL or IELTS for international students whose first language is not English

2.2 Foreign Language: Not required.

2.3 Program of Study:

2.3.1 Plan for a Master’s Program

The MS in Dental Hygiene will conform to the Master’s of Science Plan II, which requires 38 units of coursework and a comprehensive examination (i.e., Capstone Project). The purpose of an MS degree in Dental Hygiene is to provide graduate dental hygiene students with the knowledge and skills to synthesize related evidence from clinical research, dental public health, behavioral and social sciences, and health policy information, as well as the leadership tools, to solve oral disease prevention and health promotion problems in various settings.

The curriculum committee charged with creating the master’s degree courses began its deliberations with the definition of the knowledge and skills of a hypothetical MS Dental Hygiene graduate. Table 2 outlines specific skill-based goals for the program along with expected outcomes and competencies, learning methods, and means of outcome assessment. Each didactic course is designed to support these competencies and skills.

The proposed one-year degree program will consist of three quarters of interdisciplinary dental hygiene science coursework and one quarter of field work for a total of four quarters. The field work will take place at either a partner educational institution (a basic preparation dental hygiene program or pre-doctoral dental program), an established research group in an area of student interest, a public health setting, or in the healthcare industry. The coursework will center on case-based learning and will integrate findings from clinical research on oral health and disease, dental public health, behavioral and social sciences and health policy information to promote dental hygiene.
problem solving strategies to prevent oral disease and promote health across the life span among individuals, families and communities. In addition, a longitudinal seminar in the Summer and Fall Quarters will focus on development of competencies in preparation for the Field Work Proposal, the Oral Qualifying Exam, and field work. In the Spring Quarter seminar, students will integrate the material covered in the previous courses with the knowledge and perspective gained from their field work and will present written and oral presentations for their Comprehensive Examination (the Capstone Project). The courses that comprise the proposed MS in Dental Hygiene Sciences are listed in Table 3.
<table>
<thead>
<tr>
<th>Goal</th>
<th>Outcome</th>
<th>Learning Method(s)</th>
<th>Assessment</th>
<th>Competency</th>
</tr>
</thead>
</table>
| **Understand interdisciplinary and scientific approaches to existing and emerging dental hygiene problems and develop a proposal to address a specific problem** | By the end of the program graduates will be able to:  
Synthesize related evidence from clinical research in oral health and disease, dental public health, behavioral and social sciences, and health policy information to propose evidence-based oral disease prevention and health promotion projects | Small group Seminars  
Didactic sessions  
Case based projects  
Independent self study | Learning portfolio documenting process and outcomes related to scholarly projects | Conduct needs assessment  
Develop clear statement of a specific problem, including environmental context, and dental hygiene roles and relationships  
Conduct and interpret a current literature review  
Develop an evidence-based strategic plan to address a specific problem with budget, expected outcomes, and evaluation procedures |
| **Understand the social, cultural, political, educational, economic, and environmental determinants of oral health and their relationship to systemic health and health disparities** | By the end of the program graduates will be able to:  
Interpret and analyze the determinants of oral health and their effect on oral health and systemic health and health disparities. | Didactic classes  
Seminar discussions | Learning portfolio  
Small group projects  
Examinations to assess content mastery | Evaluate research on determinants of oral health and translate this analysis into an action plan to support program development |

*Adapted from Table 2 in the Proposal for MS Degree in Global Health Sciences, April 2007*
<table>
<thead>
<tr>
<th>Goal</th>
<th>Outcome</th>
<th>Learning Method(s)</th>
<th>Assessment</th>
<th>Competency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understand age-specific differences in oral disease risk assessment, preventive strategies, and management of the dental hygiene client across care settings</td>
<td><strong>By the end of the program graduates will be able to:</strong> Interpret and analyze differences in oral risk assessment among different age groups (infants, toddlers, children, adolescents, and younger and older adults) and explain how risk categories affect prevention and management of oral disease across the life span. Integrate information obtained from case-based presentations and explain how risk factors modulate oral disease susceptibility and influence its onset, progression, severity and need for treatment. Understand barriers to translating emerging science into practice-based decision-making.</td>
<td>Didactic classes, Case studies, Seminar discussions, On-line basic courses</td>
<td>Learning portfolio, Small group projects</td>
<td>Develop prevention and disease management strategies for clients with known risk factors for specific oral diseases. Interpret research findings and translate them into an action program plan for development. Develop intervention strategies to address barriers to behavior change among healthcare providers.</td>
</tr>
<tr>
<td>Have a firm grasp of ethical issues related to dental hygiene and oral disease prevention and health promotion practice, research, and policy development</td>
<td><strong>By the end of the program graduates will be able to:</strong> Apply ethically sound research in a variety of settings. Obtain institutional review board approval to conduct research studies that involve human beings.</td>
<td>Small group seminars, Didactic sessions, Case based tutorials</td>
<td>Learning portfolio, Scholarly project, Small group seminars</td>
<td>Apply ethical principles to program plans. Successfully obtain human subjects clearance for dental hygiene research protocols.</td>
</tr>
<tr>
<td>Goal</td>
<td>Outcome</td>
<td>Learning Method(s)</td>
<td>Assessment</td>
<td>Competency</td>
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<tr>
<td>Understand the research process and different types of research methods and designs appropriate for solving oral disease prevention and health promotion problems</td>
<td><strong>By the end of the program graduates will be able to:</strong> Use evidence-based approaches to answer a dental hygiene problem, select an appropriate research design for specific questions, critique a research paper by assessing hypothesis design, plan, population and validity of research findings</td>
<td>Didactic sessions Seminar discussions Field work to participate in a research experience</td>
<td>Learning portfolio Scholarly project Small group seminars</td>
<td>Develop appropriate plan of implementation and evaluation and analyze field data using appropriate quantitative and qualitative tools</td>
</tr>
<tr>
<td>Master principles of theory-based dental hygiene educational practices</td>
<td><strong>By the end of the program graduates will be able to:</strong> Explain at least one educational theory and apply that theory to a dental hygiene educational problem related to dental hygiene curriculum development and to explain at least one teaching-learning theory</td>
<td>Didactic sessions Seminars Field work to participate in a teaching practicum</td>
<td>Learning portfolio Scholarly project Small group seminars</td>
<td>Develop program goals for a basic preparation dental hygiene curriculum based on a selected school of thought about the following paradigm concepts of Dental Hygiene: Health/Oral Health, Dental Hygiene Clients, Dental Hygiene Actions, and the Environment in which Dental Hygiene Actions occur</td>
</tr>
<tr>
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</tr>
<tr>
<td>Apply dental hygiene leadership skills</td>
<td><strong>By the end of the program graduates will be able to:</strong> Respond to the challenges of educating and managing a healthcare workforce capable of improving the health and well being of people and their communities</td>
<td>Case-based learning, Speaking and presentation training, Writing workshops, Guest speakers who have been in leadership positions</td>
<td>Learning portfolio Scholarly project Small group seminars Field work</td>
<td>Set priorities for small or large organizations Manage change and conflict resolution at the interpersonal and organizational level Demonstrate cultural sensitivity and diplomacy, as administrators, scientists, and teachers</td>
</tr>
<tr>
<td>Block Title</td>
<td>Summer Units</td>
<td>Fall Units</td>
<td>Winter Units</td>
<td>Spring Units</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
<td>------------</td>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td><strong>Introduction to Dental Hygiene Science</strong></td>
<td>10</td>
<td>Dental Hygiene and Oral Disease Prevention &amp; Health Promotion</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td><strong>Courses</strong></td>
<td>3</td>
<td>DH 200B: Dental Hygiene Science Seminar</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Dental Hygiene and Oral Disease Prevention and Management by Risk Assessment</td>
<td>4</td>
<td>DH 200C: Dental Hygiene Science Seminar (Evaluation of field work; analysis of data, write-up, and oral presentation)</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>N295A: Care of Older Adults</td>
<td>3</td>
<td>S211B: Managing Change in Health Care Systems</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>S211A: Basic Topic in Leadership in Health Care Systems</td>
<td>2</td>
<td>S211C: Leadership Development &amp; Self-Renewal</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>S236: Race &amp; Class Factors in Health Inequalities</td>
<td>3</td>
<td>S235: Tobacco Control Policy Issues</td>
</tr>
<tr>
<td><strong>Faculty</strong></td>
<td></td>
<td>Field work mentor</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Key content</strong></td>
<td></td>
<td>Relationship of oral health to general health &amp; various diseases: oral disease prevention &amp; management based on risk assessment over the lifespan (prenatal, infant, child, adolescent, adult, older adult) &amp; related policies</td>
<td></td>
<td>Evaluation of field work quantitative and qualitative analysis of data</td>
</tr>
<tr>
<td><strong>Key skills</strong></td>
<td></td>
<td>Designing problem solving proposal, critical literature review or research proposal related to oral disease prevention and health promotion Team building and leadership</td>
<td></td>
<td>Analyzing field data Report writing Team building and leadership</td>
</tr>
<tr>
<td><strong>Course assessment</strong></td>
<td></td>
<td>Written exam on course content; portfolio of course projects and seminar assignments</td>
<td></td>
<td>Assignments to integrate and apply course knowledge to field work Portfolio of course projects and seminar assignments Reflection</td>
</tr>
<tr>
<td><strong>Program assessment</strong></td>
<td></td>
<td>Oral Qualifying Exam: field project proposal</td>
<td></td>
<td>Field Project implementation Comprehensive exam: Written and oral report of Field Project outcomes and potential applications</td>
</tr>
</tbody>
</table>

* Adapted from Table 3 Proposal for MS Degree in Global Health Sciences, April 2007
2.3.2. Specific Fields of Emphasis

There will be no formal content tracks as part of the MS degree since all students will engage in the same curriculum. Within the Dental Hygiene Science Seminar (DH 200 A, B, and C) students will have the opportunity to focus on particular topics based on areas of interest and course emphasis. Potential areas of emphasis include:

- Theories and conceptual frameworks that relate to solving a particular dental hygiene problem and related program development
- Cultural, social, and political determinants of oral health and health disparities
- Oral health policies and their impact on access to oral healthcare and on dental hygiene research, education, and practice
- Efficacy and effectiveness of oral disease prevention and health promotion programs

The seminar coordinator of the Dental Hygiene Science Seminar series will recruit faculty from the interdisciplinary faculty associated with the MSDH program and MSDH students to develop content and conduct the seminars based on the interests of the students. The MS Program Director will work closely with seminar leaders to assure that content and goals for each seminar map to the core competencies of the overall degree program.

2.4. Oral Qualifying Examination

At the end of the Fall quarter of their MS program, students will present to a committee of three faculty an oral report of their field work proposal that identifies a significant dental hygiene problem and applies advanced clinical and theoretical knowledge related to oral disease prevention and health promotion as it relates to that area. The proposal will include a plan to conduct a needs assessment; a clear statement of the problem and environmental context and related dental hygiene roles and relationships; the problem supported by the critique of current literature, the conceptual and theoretical framework guiding the project, and the proposed methodology for project implementation including the plan for implementation, budget and evaluation procedures. A committee of three faculty members will assess the oral qualifying exam. The committee will be composed of the student’s mentor, one of the course faculty members (appointed by the Program Director) and one at-large faculty member from the faculty associated with the MS program. Each student will submit a list of three to five potential faculty members to fill this slot, and the Program Director will select one. In this way, faculty members will not be overused and there will be a conscious effort to assure interdisciplinary capacity by committee members. After the faculty committee determines the student has passed the qualifying examination, students will file for advancement to candidacy with the Graduate Division.

2.5. Field Work

Students are required to develop a scholarly project, including one quarter of mentored field work (DH 203, four units) in one of the following four types of settings related to the student’s area of interest: (1) a basic preparation dental hygiene program or the UCSF predoctoral dental educational program; (2) a public health or governmental setting; (3) an established research or administrative group within UCSF; or (4) an oral health-
related industry setting. Students will be based within a partner institution or setting to complete the project developed over the previous two quarters as part of their requirements for the MS degree. They will present the results of this project in their last quarter as part of the comprehensive examination. Identification of the project and field work will be encouraged in the first part of the program with the help of their mentor. The UCSF mentor and the Program Director will oversee the field work and, along with the student, will develop specific competencies to be achieved in the field work. These will be recorded by students in their learning portfolio for later assessment. Field mentorship will be an integral part of the field experience and will be designed so that the students’ time in the field benefits not only the student but also the local site.

2.6. Thesis: None required

2.7. Comprehensive Examination

The purpose of the comprehensive examination (i.e., Capstone Project) is to evaluate the student’s ability to apply advanced clinical and theoretical knowledge related to oral disease prevention and health promotion in a selected area of interest and to critique research as it relates to that area. There will be two components to the Comprehensive Examination:

1. A written scholarly project report of the field project. Upon returning from their field experience and the implementation of the scholarly field project proposal, each student will produce a written project report related to his/her field work in the form of one of the following options selected by the student: a Problem Solving Proposal, a Critical Literature Review, or a Research Proposal. (See Appendix D for areas to be addressed and evaluation criteria.)

The written scholarly report will be no more than 25 pages and will include a thorough literature review, the needs assessment, a clear statement of the problem, environmental context and related dental hygiene roles and relationships; methodology, results, discussion and implications and potential applications of the field project. This paper could serve as the basis for a grant application for further detailed research or as an article for publication, depending on the nature of the field project.

2. An oral presentation. Concurrent with the written report, students will complete an oral presentation of approximately 30 minutes length regarding their project in the last quarter. The student will participate in the comprehensive examination only after the fulfillment of all requirements for the MSDH degree, or during the quarter within which those requirements will be fulfilled. In addition, the student must advance to candidacy prior to taking the examination. A student who has failed the comprehensive examination may retake it only once and no earlier than the quarter following the initial exam. Based on availability and appropriateness, faculty members of the MSDH program will be designated to read the comprehensive examination and evaluate it based on specific areas to be addressed and evaluation criteria for each (see Appendix D).

2.7.1. Explanation of Special Requirements

There are no special requirements.
2.8. Relationship of Master's and Doctor's Programs

Currently, the Master of Science is the highest degree offered in Dental Hygiene. The MSDH will allow individuals to pursue advanced study at the doctoral level in related fields such as education, health psychology, or gerontology. After the proposed MS is established, a doctoral program in Dental Hygiene Science will follow with a focus on dental hygiene research to solve oral disease prevention and health promotion problems.

2.9. Special Preparation for Careers in Teaching

An aim of the proposed program is to prepare MS dental hygiene graduates for careers in teaching and the proposed course DH 201, Curriculum Development and Methods of Instruction (3 units) focuses on achieving this aim.

2.10. Normative Time from Matriculation to Degree

The normative time for a MSDH student is 1 year. The MSDH program has developed a policy for monitoring progress of M.S. student using a formal Academic Review Form (See Appendix E)

SECTION 3: PROJECTED NEED

3.1 Student Demand for Program

A survey of UCSF dental hygiene graduates was conducted in 2002. The population sampled was 746 graduates with known addresses from the 1960 to 2000 graduating classes. Responses were received from 468 graduates, for a response rate of 66%. Fifty-one percent responded "very favorable" and 30% "favorable" with regard to the establishment of a Master's Degree in Dental Hygiene at UCSF. Twenty-five percent of the overall respondents and 53% (n=62) of the graduates of the most recent decade indicated that they would be interested in enrolling in such a program.

Currently, dental hygiene directors of educational programs are required to have at least a Masters Degree. Within the state of California, there are 23 basic preparation dental hygiene educational programs, including the bachelor’s programs in Dental Hygiene at the University of the Pacific, the University of Southern California, and Loma Linda University. However, there are no masters degree programs in Dental Hygiene in California to prepare Dental Hygiene faculty. The proposed MSDH program will help address the need for dental hygiene faculty not only in California and the western region, but also throughout the U.S. and the world.

3.2 Opportunities for Placement of Graduates

The need for qualified dental hygiene educators is evident by the appearance of large numbers of classified ads in major professional journals recruiting dental hygienists who have a background in dental hygiene, research and educational theory. We have
included a sampling of ads that have appeared in the *Journal of Dental Education*, the *Journal of Dental Hygiene*, and ADHA’s *Access* publication in 2005-2008 (Appendix F).

### 3.3 Importance of the Master of Science Degree Program to the Discipline

Developing solutions to major problems of oral disease prevention and health promotion is central to the discipline of Dental Hygiene. Advancement of the discipline requires that dental hygiene scholars receive specialized training and a broad-based interdisciplinary perspective. To solve problems related to dental hygiene science, an understanding of research methods and design as well as development of the skills of critical thinking, strategic planning, and oral and written communication are needed. The proposed Masters Degree in Dental Hygiene will provide interdisciplinary training to help dental hygiene scholars understand both the technical and social context in which the answers to dental hygiene research questions can be approached. In so doing, it will prepare dental hygiene scholars to assume leadership roles in Dental Hygiene and for various careers in academia, research, industry, and community health settings.

### 3.4 Ways in Which the Program Will Meet the Needs of Society

The proposed MSDH program is responsive to the documented current and projected future shortage of dental hygiene educators to meet the demand for clinical dental hygienists to provide needed dental hygiene care.

Moreover, program graduates will be in a position to help solve pressing problems in society related to oral disease prevention and health promotion across the life span.

### 3.5 Relationship of the Program to Research and/or Professional Interests of the Faculty

The biosketches of faculty with a stated interest in participating in the MSDH Program are in Appendix G. The faculty members are health science researchers and distinguished teachers whose research and professional interests span a variety of disciplines including dental hygiene, oral disease prevention and health promotion, cariology, gerontology, periodontology, dental public health, oral medicine, biomaterials and engineering, nursing, health policy.

### 3.6 Program Differentiation

The proposed program is unique among University of California institutions and thus will not compete with any existing programs. The current M.S. in Oral Craniofacial Sciences is geared primarily towards dentists enrolled in specialty programs. In the last 10 years only one dental hygienist enrolled in that program.
### SECTION 4: FACULTY
(WFWM = WILLING FIELDWORK MENTOR; L = LECTURER; SL= SEMINAR LEADER; CD COURSE DIRECTOR; MSDHPD= MSDH PROGRAM DIRECTOR)

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SECTION 5: COURSES

5.1 Description of Proposed New Courses

Each entry below contains a course description suitable for entry into the university course catalogue under the proposed Dental Hygiene Sciences heading (DH designation subject to approval of the Committee on Courses), plus an entry of core knowledge and competencies to be gained from each course. Appendix I contains draft Course Forms for each proposed course. The overall pedagogical approach of the MS in Dental Hygiene program will be that of case-based learning, using presentation of actual cases, research papers, or appropriate problem scenarios for critical analysis and discussion directly related to the content of the course.

5.1.1. DH 200 A, B, C Dental Hygiene Science Seminar

Critical analyses of contemporary theories and conceptual frameworks of dental hygiene science as they relate to dental hygiene roles in oral disease prevention and health promotion and dental hygiene schools of thought. Emphasis will be on case-based learning about problems of interest to the students. Each quarterly section will have individual content developed by the Seminar Coordinator and the students collaboratively to assure that the specific needs of students in the program competencies are met. It is in the seminars that the written scholarly project proposal will be developed during Summer and Fall quarters in preparation for the oral qualifying examination at the end of the Fall quarter. The major evaluation tool will be through the self-assessment learning Portfolio which will be reviewed by the student, the student’s mentor, and the Seminar Coordinator at least once per quarter. A formal evaluation will be required at the completion of the Fall and Winter quarters.

5.1.1.1. Course Credit

3 units per Summer, Fall, and Spring quarters for a total of 9 units
2 hours in-class per week per quarter
3 hours of seminar per week per quarter

5.1.1.2. Course Objectives

Summer Quarter: Upon completion of this course students will be able to:

- Understand the application of Dental Hygiene’s paradigm concepts of Dental Hygiene Actions, Health/Oral Health, the Environment, and the Client, to dental hygiene research, education, and practice
- Understand the social, cultural, political, educational, economic, and environmental determinants of health/oral health and their effect on health disparities
- Cite examples of groups with oral health disparities
- Explain at least one oral disease prevention or health promotion theory and apply that theory to a dental hygiene problem
- Cite types of quantitative and qualitative tools used to measure outcomes of health promotion and disease prevention research and select a tool for use to solve a dental hygiene problem
• Describe the principles and evaluation criteria for community participatory research
• Review the evidence of effectiveness of brief health promotion interventions that involve healthcare professionals in areas such as smoking cessation, nutritional counseling, oral cancer screening, and blood pressure monitoring,
• Incorporate related evidence from clinical research in oral health and disease, dental public health, behavioral and social sciences, and health policy information to study a selected dental hygiene problem
• Incorporate material from the content of courses into development of a draft framework of a written scholarly field project proposal

**Fall Quarter:** Upon completion of this course students will:
- Incorporate material from the content of courses into development of a final written field project proposal
- Complete the Oral Qualifying Exam to gain approval of their field project proposal for implementation in the Winter Quarter.

**Spring Quarter:** Upon completion of this course students will be able to:
- Complete as the Capstone Project an oral and written scholarly report of the Field Project’s outcomes and potential applications.
- Demonstrate proficiency in oral communication when delivering professional presentations related to the Field Project.
- Describe job access points in dental hygiene in a variety of different settings.

5.1.2. DH 201, Dental Hygiene Curriculum Development and Methods of Instruction

Critical appraisal of various theories and schools of thought in dental hygiene that drive curriculum development in basic preparation dental hygiene educational programs will be conducted. Through case presentations of dental hygiene curricula, students will critically evaluate the fit of program philosophy, conceptual framework, goals, outcomes, learning methods, assessments, and competencies that drive curriculum design. In addition, ADA accreditation standards for dental hygiene educational programs will be reviewed and analyzed. Students will apply these principles of curriculum development in small groups to develop overall program goals, outcomes, learning methods, assessments, and competencies for a model basic preparation dental hygiene program.

In addition, students will critically evaluate theories of the teaching-learning process and their application to dental hygiene education, staff development, client education, and educational programs for other health professionals as part of an integrated multidisciplinary approach to education. Cases describing specific teaching learning scenarios will be evaluated by students to determine related competencies, teaching strategies and assessment and evaluation of competency achievement. Measurement tools for use in evaluating various aspects of laboratory and clinical dental hygiene education also will be analyzed.

5.1.2.1. Course Credit

3 units
2 hours in-class per week
3 hours seminar per week
5.1.2.2. Course Objectives

Upon completion of this course students will be able to:

- Develop a basic preparation dental hygiene program model that is based on a selected school of thought regarding Dental Hygiene Paradigm Concepts and map program goals, outcomes, learning methods, assessments, and competencies.
- Understand ADA accreditation standards for basic preparation dental hygiene programs
- Understand the application of theories of the teaching-learning process in various educational settings.
- Demonstrate proficiency in oral communication skills
- Understand concepts underlying testing, measurement, reliability and validity.

5.1.3. DH 202, Dental Hygiene Oral Disease Prevention and Management by Risk Assessment

Course provides the theoretical basis for associations between oral infections and systemic disease; a comprehensive foundation for a team approach to the prevention and management of oral health problems by risk assessment; and the role of dental hygiene actions. In addition, literature on methods employed for dissemination of evidence-based strategies to healthcare professionals and the public are reviewed. In seminar groups, students will design team-based approaches to oral disease prevention and management by risk assessment across the lifespan, identify barriers to the adoption of emerging science by dental hygienists to reduce risk in susceptible patients, and explore potential dental hygiene strategies to improve clinical decision-making across professions and healthcare settings.

5.1.3.1. Course Credit

- 4 units over the course of one quarter
- 3 hours of lecture per week
- 3 hours of seminar per week

5.1.3.2. Course Objectives

Upon completion of this course students will be able to:

- Understand the biologic basis for the interdependence of oral inflammation and infections with systemic health
- Understand the relationship of oral health to overall health, especially with regard to potential associations between periodontal infections and the following adverse systemic outcomes:
  - Heart diseases (infective endocarditis, atherosclerosis, and coronary heart disease)
  - Diabetes Mellitus (onset and control)
  - Pulmonary disease (aspiration and ventilator-associated pneumonia; chronic obstructive pulmonary disease)
  - Adverse pregnancy outcomes (preterm birth; preeclampsia; fetal growth restriction)
- Arthritis and failure of artificial joints
- Cancer (pancreatic cancer; lung cancer; and stomach cancer)
- Neurological diseases (cerebrovascular disease: nonhemorrhagic stroke; brain abscess; Alzheimer’s disease; and meningitis)
- Gastrointestinal diseases (gastric ulcers; stomach cancer)
- Evaluate examples of effective dental hygiene health promotion interventions to enhance the public’s understanding of the beneficial effects of regular oral self-care and regular dental hygiene care on systemic health
- Cite examples of effective community-based interventions on the oral health and systemic health connection and evaluate them from a biological, cultural, and educational vantage.
- Appreciate the importance of achieving a balance between pathologic factors and preventive factors in caries prevention and management interventions
- Understand the principles of strategies for caries management related to the tooth, diet, acid, saliva, bacteria, client education (which includes the individual, family, and communities)
- Know the differences for anticipatory guidance and management of caries by risk assessment for the following groups:
  - Adults: Low, moderate, high, and extreme caries risk categories
  - Pregnant women: Low, moderate, high, and extreme caries risk categories
  - Children 0 to 5 years of age
  - Children 6 to 18 years of age
  - Older adults
- Integrate the following information obtained from case-based presentations to determine whether an individual is in low-, moderate-, high- or extreme caries risk category:
  - Careful dental and general health history including fluoride exposure and medications taken
  - Clinical exam noting signs of existing caries and past caries experience
  - Diet analysis to determine number and duration of acid challenges per day
  - Salivary flow rate if patient complains of dryness or appears to have a low flow rate.
- Integrate information obtained from case-based presentations to explain how smoking, poor oral hygiene, genotype-positive status, and diabetes mellitus modulated periodontal disease susceptibility and influenced its the onset, progression, and severity.
- Review the dental hygiene literature and critically appraise dental hygiene health promotion strategies to communicate the relationship of risk factors for oral disease to individual clients, other health professions, and the public at large.
- Design dental hygiene strategies for communication of oral assessment findings to clients (i.e., individual, family, community) so they have an understanding of their current oral disease status and potential risk for future oral disease based on their degree of risk
- Discuss theories of aging
- Describe the significant demographic characteristics of the population older than age 64
- Describe normal age-related changes of the cardiovascular, pulmonary, musculoskeletal, neurosensory, gastrointestinal, genitourinary, and integumentary systems.
- Describe demographic, social, and physiologic aspects of aging
• Describe prevalent chronic diseases associated with aging and discuss the implications for oral health care
• Identify age-related oral changes commonly found in the older adult
• Discuss oral changes that occur as a result of diseases or medications
• Explain potential alterations in the dental hygiene process of care that need to be considered when treating an older adult
• Explain health promotion strategies based on older adults’ needs

5.1.4. **DH 203 Dental Hygiene Field Work** (Prerequisite: Advancement to Candidacy)

Students will enroll in this course while completing their mentioned field project in one of the following four settings: an educational setting such as a basic preparation dental hygiene program or in the UCSF predoctoral dental program; a public health or governmental setting; an established research or administrative group at UCSF related to the student’s area of interest; or an oral health-related industry setting. Students will be based within a partner institution to complete the project developed over the previous two quarters within an existing collaborative project. Students will be responsible for continually assessing their own progress and discussing with their mentors their own work and the application of their didactic learning to their particular setting. They will spend at least two months in the field work setting.

5.1.4.1. **Course Credit**

- Four units over the course of one quarter
- Minimum 120 hours independent field work

5.1.4.2. **Course Objectives**

Upon completion of this course students will be able to:

- Complete an independent mentored project of their own design in a dental hygiene or related setting
- Demonstrate the knowledge, behaviors and attitudes listed in Table 2 as applied to field work
- Assess their role in the field work setting and determine potential career opportunities based on this role

5.2. **Description of Existing Core Courses for the Proposed MS Degree**

5.2.1. **DPH 210. Introduction to Research Methods and Design** (2 units)
The purpose of this course is to introduce participants to the research process with emphasis on different types of research methods and designs frequently used to study oral health. (S/D Department: PRDS).

5.2.2. **DPHH 200. Ethical and Behavioral Considerations in Clinical and Research Aspects of Dentistry** (2 units)
Using lectures and group discussions, this course will seek to increase student awareness of: a) Behavioral issues affecting the delivery of oral health services, b) ethical issues affecting
dental practice and research, and c) the impact of both these subjects on decision-making in clinical practice and research. (S/D Department: PRDS)

5.2.3. Nursing 295A. Care of Older Adults (3 units)
Course focuses on advanced practice nursing care of older clients across care settings using case studies, lectures, and discussions. Integrates pathophysiological, pharmacological, psychosocial, and ethical concepts. Critically analyzes evidence-based approaches to assessment and care.

5.2.4. Social and Behavioral Sciences 211A. Basic Topics in Leadership in Health Care Systems (2 units)
Course examines basic topics in leadership in health care systems including management, human resources, financing and budgeting, and feedback and coaching. (SON: SOC BEH SC)

5.2.5. Social and Behavioral Sciences 211B. Managing Change in Health Care Systems (2 units)
Course examines the principles of organization change in health care systems. These include strategy, decision making and conflict management, communications, and quality improvement and management. (SON: SOC BEH SC)

5.2.6. Social and Behavioral Sciences 211C. Leadership Development & Self-Renewal (2 units)
Course examines the principles of leadership and self-renewal including negotiating, motivating others, problem solving, managing diversity, improving care management, and developing skills and knowledge. (SON: SOC BEH SC)

5.2.7. Social and Behavioral Sciences 235. Tobacco Control Policy Issues (2 units)
Course focuses on developing students’ understanding of the key issues in and evolution of tobacco control policies in the United States and internationally. Lectures and readings in the history of tobacco control will prepare students to engage in weekly discussions and prepare case studies of particular tobacco control policies. (SON: SOC BEH SC)

5.2.8. Social and Behavioral Sciences 236. Race & Class Factors in Health Inequalities (3 units)
Course examines the social production of racial, ethnic, and class inequalities in health; the social contexts in which ideas about race, ethnicity, class and gender emerge and their implications for human health; the social structural conditions that give rise to health disparities, as well as the lived experience of race and gender. Readings cover theories of race, ethnicity, and power; inequalities in health status and health outcomes; scientific and statistical constructions of race, ethnicity, and gender; and issues of cultural competence in health care delivery. (SON: SOC BEH SC)
SECTION 6: RESOURCE REQUIREMENTS

The program being proposed is a 1-year state supported MS degree program with the option of charging professional fees. No new resources from campus will be required for the MSDH degree program. Students will pay tuition, an educational fee, a registration fee, and regular campus-based fees. In addition, we propose an additional professional fee to augment state funds to pay for the total cost of the program. Program administration will be supported by the Department of PRDS and by funds from the student professional fee. If the program costs exceed professional fees received, the Department of PRDS will absorb the remaining costs. Funds from Foundations (e.g. the American Dental Hygienists’ Association Foundation, the California Dental Association Foundation) and private industry (e.g. Oral B Laboratories, Proctor and Gamble) will be pursued for student scholarships to promote student enrollment that is racially and ethnically diverse.

6.1 FTE Faculty

This proposal is based on 8-12 MSDH students per year. Budgetary analysis supports the proposed class size. The faculty membership is drawn from existing FTE. One state-supported FTE residing in the PRDS Department will be dedicated to directing the MSDH program and will have primary responsibility for teaching and mentoring students, coordinating faculty guest lecturers, and supervising the 200 level Dental Hygiene courses. We anticipate the addition of part-time MSDH program-dedicated faculty members equaling 50% funded by student professional fees. Other participating faculty have appointments in the PRDS Department and in other departments and schools on the UCSF campus. These faculty either teach currently existing courses that are being proposed for inclusion in the MSDH curriculum, or they have agreed to serve as teaching and/or research mentors as appropriate to student-faculty interests and schedules.

The proposed MSDH program will contribute to growth of the number of graduate students on the UCSF campus and in the S/D.

6.2 Library acquisition

There will be modest additional costs incurred by the establishment of this new graduate program since the required textbooks for this discipline will have to be acquired. Most Dental Hygiene journals are on-line. The increased use of the digital library, however, makes the incremental costs of adding more users so low as to be insignificant.

6.3 Computing Costs

Students will be required to have their own laptop computers. We do not think that the new program will negatively impact the computing costs.

6.4 Equipment

We anticipate no additional costs for equipment. Equipment costs are borne by the individual education/research groups with whom students engage in field work. Thus, the MSDH students should not negatively impact expenses for equipment.
6.5 Space and Other Capital Facilities
No new space is required for the 8-12 students proposed for the program. There is office space for the program director and faculty. There also are lockers available for students’ personal use at the 707 Parnassus Dental Clinics Building. During field work, the various sites will make accommodations for MSDH students to support student/mentor collaboration.

6.6 Other Operating Costs
The costs for running the proposed program will include administrative staff to handle the administrative portion of recruiting and admitting students, and to maintain student and program records. This support will be provided by the MSDH Program’s budget (see appendix).

6.7 Multiple Sites for Teaching
Because the MSDH program is a multidisciplinary graduate program, students will be at UCSF campus sites including Parnassus Heights and Laurel Heights and at basic preparation dental hygiene educational programs in California.

SECTION 7: GRADUATE STUDENT SUPPORT

7.1 Support Policy
Students are primarily responsible for funding their own student fees and expenses.

7.2 Sources of Support
Research grant support via the Faculty Research Mentors will contribute to support graduate MSDH students working on funded research grants. Students admitted to this program also can apply for financial aid. Federal and private loans are also available. For example, the American Dental Hygienists Association offers scholarship funding for graduate dental hygiene students.

SECTION 8: CHANGES IN SENATE REGULATIONS
No changes in Senate Regulations at the Divisional level or in the Academic Assembly will be required if this proposal for an M.S. degree in Dental Hygiene is approved.


3 ADEA. Unleashing the potential, 2006.


5 Oral Health Coalition report in California.


Appendix A

Letters of Support from UCSF Administrators and Dental Hygiene Professional Organizations
April 7, 2008
Jeff Lansman, Ph.D
Chair, Graduate Council

Dear Dr. Lansman:

I strongly endorse the proposed graduate program leading to a new Master of Science Degree (MS) in Dental Hygiene. The proposed interdisciplinary program is an important component of our School's strategic plan and has been reviewed and approved by our School of Dentistry Faculty Council and by our School of Dentistry Educational Policy Committee.

The proposed MS program will provide graduates with the knowledge and skills they need to engage in multidisciplinary problem solving related to oral disease prevention and health promotion to improve the oral health of varied populations. It will use interactive and multidisciplinary approaches to create a rich and unique educational experience for academically-motivated dental hygienists in California, nationally, and internationally. In addition, the program is responsive to the documented current and projected future shortage of dental hygiene educators in California and nationally and will be the only MS degree program in Dental Hygiene offered in California.

Moreover, this new MS program is an opportunity to focus our faculty and institutional resources effectively across departments, divisions, and schools and competitively position UCSF among national and international leaders in the field of Dental Hygiene and oral disease prevention. For example, one of the program's great strengths is its collaboration with the UCSF School of Nursing's Department of Physiological Nursing, and Department of Social and Behavioral Sciences. The program also will be enriched by several other UCSF programs, institutes, and centers and by basic preparation dental hygiene educational programs outside the UC system. These rich resources have indicated interest in having affiliated faculty serve as fieldwork mentors for interested graduate dental hygiene students.

Finally, the commitment to the MS degree program in Dental Hygiene includes both in-kind and actual dollar support. Program support will include a combination of funding from student professional fees as well as other in-kind and actual dollar support from the School of Dentistry's Department of Preventive and Restorative Dental Sciences.

I can assure you that this program is a high priority within the School of Dentistry and has my full and strong support. It is indeed timely, very well planned, and fills a major void in dental education in California and beyond. On behalf of the School of Dentistry, thank you for your consideration of this proposal.

Sincerely yours,

[Signature]
John D. B. Featherstone, M.Sc., Ph.D.
Professor and Interim Dean

/jmw
February 21, 2008

Margaret M. Walsh, Professor
Department of Preventive and Restorative Dental Services
School of Dentistry

Dear Dr. Walsh:

The Graduate Council unanimously approved the proposal for a Master’s of Science degree in Dental Hygiene in the School of Dentistry on January 15, 2008.

Before the Council can forward the proposal to the Academic Senate for review and approval, we ask that you provide a letter of support from the Interim Dean of the School of Dentistry and other faculty involved in the program, as well as a description of the available funding, anticipated budget, and projected program fees. Please submit the completed document to Karen Nelson in the Graduate Division.

There was strong support for the MS in Dental Hygiene by the Graduate Council. During the Council’s deliberations, we became aware that fully a third of children between 5-11 years in Alameda County lack proper oral health care. The program is being established at a time when there is clear and urgent public health need for graduate level hygienists in teaching, research, and oral health care administration. The program draws on the talents of a large number of outstanding faculty in the School of Dentistry and an established programmatic infrastructure in Oral and Craniofacial Sciences, Preventive and Restorative Dental Sciences, and Public Health. The Council felt the program curriculum to be logically constructed with well-defined goals and assessment methods. The program structure allows sufficient time for completion of the degree. The Council felt strongly the one quarter requirement for field work will be a valuable experience for graduates of the program as they enter important positions in teaching, industry, and public health.

We believe the MS in Dental Hygiene will make an important contribution to the educational mission of UCSF and commend you and the Steering Committee for submitting an outstanding proposal. We look forward to receiving the completed document for final submission to the Academic Senate.

Sincerely,

Jeffry Lansman, Ph.D.
Chair, Graduate Council

Patricia G. Calarco, Ph.D.
Dean, Graduate Division

C: Graduate Council Co-Chair Elizabeth Watkins
Assistant Dean Karen Nelson
Senate Analyst Heather Alden
COMMUNICATION FROM THE CHAIR OF THE SCHOOL OF DENTISTRY FACULTY COUNCIL
Nina Agabian, PhD, Chair

February 28, 2008

John Featherstone, PhD
Interim Dean, School of Dentistry
Box 0430

RE: Proposed M.S. Degree in Dental Hygiene Program

Dear Dean Featherstone,

At its meeting of October 18, 2007, Faculty Council gave its unanimous approval to the proposal to establish a new Master of Science Degree Program in Dental Hygiene. Subsequently, the proposal also was reviewed and approved by our School of Dentistry Educational Policy Committee. In addition, the proposal was posted on the Academic Senate Website for general review and comment by Faculty in the School of Dentistry. At the Academic Senate Coordinating Committee meeting of February 12, 2008, Graduate Council Chair Jeff Lansman stated that the Master of Science Degree Proposal from the School of Dentistry was amongst the best proposals that the Council has reviewed.

Based on the above reviews and comments, the School of Dentistry Faculty Council is pleased to express its unqualified and enthusiastic support for the proposed new M.S. Degree Program in Dental Hygiene. This new interdisciplinary program is both innovative and well-grounded academically. Many distinguished members of the faculty have expressed commitment to teach in and assist with courses of the proposed M.S. degree. Also, there is a demonstrable need for this program. Thus, the School of Dentistry Faculty Council is pleased to strongly endorse this interdisciplinary M.S. degree program and encourage its timely implementation.

Sincerely,

Nina Agabian, PhD
Chair, School of Dentistry Faculty Council

cc: All Committee Members
March 24, 2008

John Featherstone, MSc, PhD
Interim Dean
UCSF School of Dentistry
Box 0430
San Francisco, CA 94143

Dear Dean Featherstone,

On behalf of the UCSF School of Nursing, I am pleased to support the proposed Master of Science (MS) degree in Dental Hygiene. I understand that this is a stepping stone to the development of an eventual doctoral degree in Dental Hygiene Sciences.

I have reviewed the description of the MS curriculum and believe that it will make a significant contribution to equipping graduate dental hygiene students with the knowledge and skills necessary to pursue careers in dental hygiene education, research, and service. Most importantly, the curriculum will prepare them to engage in multidisciplinary problem solving related to oral disease prevention and health promotion across the lifespan to improve the oral health of varied populations.

The design of the program is innovative, academically sound, and very forward-thinking. It will continue to help identify UCSF as a premier, nationally and internationally oriented university that leads rather than follows educational trends. I commend the Department of Preventive and Restorative Sciences' team for their hard work on this project.

As you know, the School of Nursing Department of Physiological Nursing has an established multidisciplinary curriculum to prepare Gerontological Nurse Practitioners. This Department also houses the John A. Hartford Center of Geriatric Nursing Excellence, one of five centers in the United States to build academic geriatric capacity.

In addition, our School of Nursing Department of Social and Behavioral Sciences offers courses of study leading to a PhD in Medical Sociology, with major emphasis on the sociology of health, medicine, and healthcare systems. This Department also offers courses leading to an MS or PhD in nursing with a concentration in health policy.

Indeed, several of the Faculty in the Departments of Physiological Nursing and Social and Behavioral Sciences have participated in planning meetings for the proposed MS program in Dental Hygiene. Because of our experience, expertise, and especially our interest, UCSF School of Nursing faculty welcome the
opportunity to participate in the MS degree program in Dental Hygiene as teachers and mentors to students in the program. Therefore, we are pleased to offer our graduate courses in Care of Older Adults (N295A), Race and Class Factors in Health Inequalities (S236), Basic Topics in Leadership in Health Care Systems (S211A), Managing Change in Health Care Systems (S211B), Leadership Development and Self-renewal (S211C), and Tobacco Control Policy Issues (S235), as core required courses in the proposed MS curriculum.

Moreover, the proposed new degree program will be a valuable adjunct to graduate education at UCSF. For example, graduate nursing students interested in oral disease prevention and control will have a more extensive educational opportunity than currently exists, since they will be able to participate in learning opportunities offered in the MS degree program. This potential for interdisciplinary education between students in the two schools is in the spirit of our recently completed campus strategic plan, with its emphasis on increasing interdisciplinary education at UCSF.

Again, I am pleased to offer my enthusiastic support for this initiative and will be happy to assist with its success in any way I can. I believe the MS program will build on our mutual interests and expertise to create a new generation of leaders in dental hygiene.

Sincerely,

Kathleen Dracup, RN, DNSc, FAAN
Dean and Professor
May 29, 2008

Dean John D.B. Featherstone  
University of California, San Francisco  
School of Dentistry  
Box 0438

Dear Dean Featherstone,

I strongly support, both as Interim Chair of the Department of Preventive and Restorative Dental Sciences and as a member of the faculty of the School of Dentistry, the proposal to establish a Dental Hygiene graduate program providing training toward the M.S. degree to be housed in our department. I also strongly support the formation of a Graduate Group in Preventive and Restorative Dental Sciences to oversee the proposed Master of Science Degree in Dental Hygiene (MSDH) program. I have trained a large number of B.S. dental hygiene students during my many years as a faculty member at UCSF and also have liaised with seven Northern California Community and Junior College Dental Hygiene programs. Frequently students from UCSF and the other 23 dental hygiene programs around California as well as surrounding states, have indicated they would be attracted to an interdisciplinary graduate program like the proposed MSDH program.

There is a strong and increasing demand for basic preparation dental hygiene education programs and consequently a great need for qualified dental hygiene faculty and administrators to teach and direct these professional programs. It is well known that the shortage of educationally qualified directors and faculty of dental hygiene programs is approaching a critical period as it is in dentist education. The proposed new MSDH program will be the only MSDH program offered in California and will help to address the current and projected shortage of qualified faculty for Associate and Bachelors degree education dental hygiene program faculty in California and nationally.

I look forward to participating in the program, including teaching, advising, mentoring, training students and service to the Graduate Group in Preventive and Restorative Dental Sciences.

Sincerely,

William F. Bird, D.D.S., M.P.H., Dr. PH  
Health Sciences Clinical Professor, Interim Chair  
Department of Preventive and Restorative Dental Sciences  
John C. Greene Endowed Chair, Primary Care Dentistry
October 5, 2006

William F. Bird, DDS, DrPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

As Chair of the UCSF Department of Physiological Nursing, I enthusiastically support the proposed UCSF Master of Science Degree in Dental Hygiene. Our Department will cooperate with faculty associated with this new program to help them build academic geriatric capacity to prepare critically necessary academic leadership for basic preparation dental hygiene education programs. Our Nursing Courses N295 A and N295 B “Care of Older Adults” and the John A. Hartford Center of Geriatric Nursing Excellence housed in our Department, will be useful components in this effort. We look forward to a mutually beneficial collaboration with faculty in the UCSF School of Dentistry in providing opportunities for outstanding multidisciplinary educational experiences for the MSDH and graduate nursing students.

Sincerely,

Glenna A. Dowling, RN, PhD
Professor and Chair
March 22, 2008

William F. Bird DDS, DrPH
Health Sciences Clinical Professor
Interim Chair Department of Preventive and Restorative Dental Sciences
John C. Greene Endowed Chair, Primary Care Dentistry

Dear Dr. Bird,

Having read the proposal for a Masters of Science (MS) degree in Dental Hygiene and participated in planning discussions in relation to this program's curriculum, I am writing to express my enthusiastic support for this proposed new graduate program. The program is innovative, well-grounded academically, and will provide graduate dental hygiene students with skills and knowledge needed to engage in multidisciplinary problem solving related to oral disease prevention and health promotion to improve the oral health of varied populations.

The School of Nursing Department of Social and Behavioral Sciences (SBS) offers courses with major emphasis on the sociology of health, medicine, and healthcare systems, and also courses of study for nurses leading to an MS or PhD with a concentration in health policy. Departmental faculty look forward to interdisciplinary and collaborative teaching and mentoring of graduate dental hygiene students in S211A (Basic Topic in Leadership in Health Care Systems), S211B (Managing Change in Health Care Systems), S211C (Leadership Development and Self-renewal), S235 (Tobacco Control Policy Issues), and S236 (Race and Class Factors in Health Inequalities), required courses in the proposed MS degree in Dental Hygiene curriculum. In addition, faculty from SBS may mentor graduate dental hygiene students in the development of their field projects.

Congratulations on the development of this excellent proposal.

Sincerely,

Howard Pinderhughes, PhD
Associate Professor and Chair
Department of Social and Behavioral Sciences
September 18, 2007

John D.B. Featherstone, MSc, Ph.D.
Interim Dean, School of Dentistry
UCSF, Box 0438

Dear Dean Featherstone:

I am pleased to write this letter of support for your proposed MS degree program in Dental Hygiene. Once your program is approved and implemented, Global Health Sciences will be happy to collaborate on possible research project linkages and placements for dental hygiene masters students. We have a number of international research and training field sites in which graduate dental hygiene students can garner experiential learning to address global health problems.

This experiential learning will enhance the students' skills in interdisciplinary research to address international health problems. Global Health Sciences' education programs support representation and collaboration from all four UCSF professional schools and the Graduate Division. We would welcome graduate dental hygiene students who could contribute their clinical expertise and unique perspective for oral disease prevention and health promotion in developing countries.

Yours sincerely,

Haile T. Debas, M.D.
Executive Director
Maurice Galante Distinguished Professor of Surgery
415.502.6045
hdebas@globalhealth.ucsf.edu
Dear Dean Featherstone:

As Director of UCSF Center for Health & Community, I am pleased to write this letter in support of the Master of Science (MS) program in Dental Hygiene. I have read the description of the curriculum and believe that it will make a significant contribution to equipping graduate dental hygiene students to engage in multidisciplinary problem solving related to oral disease prevention and health promotion across the lifespan to improve the oral health of varied populations.

Oral health is an integral part of overall health. The 2003 Surgeon General’s Report noted that associations between chronic oral infection and systemic health have been reported for low birth weight and premature births, as well as, for diabetes, cardiovascular and lung disease, stroke, and brain abscess. In addition, oral problems can affect psychological status, socials interactions, and ability to function at school and work, as well as, ability to chew food which affects diet/nutrition and quality of life.

Our Center places special research emphasis on the human side of health care (social, psychological, and cultural issues) and seeks opportunities to collaborate with health providers to promote comprehensive approaches to health problems, and to avoid isolating the physical/oral disease from emotions, behaviors and experiences. I believe the MS in Dental Hygiene program is an extremely important initiative for developing future leaders, educators and scholars for the field of Dental Hygiene. Academically prepared dental hygienists would be uniquely positioned to collaborate through multidisciplinary groups to promote comprehensive approaches to solving existing and emerging oral health problems.
Faculty associated with our center look forward to facilitating mentorship for dental hygiene graduate students interested in asking questions emphasizing the human side of oral health care, improving care to individuals and communities, and shaping health care policy. We also will assist with integrating basic and applied aspects of social and behavioral sciences into dental hygiene science course content.

Sincerely,

Nancy E. Adler, PhD
Director
Center for Health & Community
August 31, 2006

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

As Director of the UCSF Academic Geriatric Resource Center (AGRC), I enthusiastically support the proposed UCSF Master of Science Degree in Dental Hygiene program. We will cooperate with faculty associated with this new program to help them build academic geriatric capacity to prepare critically necessary academic leadership for basic preparation dental hygiene education programs. The UCSF AGRC Online Curriculum in geriatrics will be a useful tool in this effort. We look forward to collaboration with the faculty in developing the program and to offering opportunity for outstanding interdisciplinary educational experiences for the MSDH students.

Sincerely,

C. Seth Landefeld, M.D.
Professor of Medicine
Chief, Division of Geriatrics, Department of Medicine
Associate Chief of Staff/Geriatrics and Extended Care Service, SFVAMC
Director, UCSF/Mt. Zion Center on Aging and UCSF Academic Geriatric Resource Center
March 31, 2008

John DB Featherstone, MSc, PhD
Interim Dean
University of California, San Francisco
School of Dentistry
Box 0438

Dear Dean Featherstone:

As Director of UCSF Center for Tobacco Control Research and Education, I am pleased to express my support for the proposed Master of Science Degree in Dental Hygiene Program. As the preventive oral health care specialists, dental hygienists with advanced degrees would be uniquely positioned to assist in promoting the treatment of tobacco use and dependence in a variety of settings among diverse populations through education, research, and service.

I have read the description of the MS curriculum and believe that it will make a significant contribution to providing the knowledge and skills necessary for graduate dental hygienists to engage in multidisciplinary problem solving related to oral disease prevention and health promotion. The program’s emphasis on multidisciplinary problem solving related to oral health fits in well with our center’s focus on bringing together representation from all the professional schools as well as graduate students from the School of Public Health at University of California, Berkeley to address tobacco control research and education.

My colleagues and I look forward to facilitating mentorship for dental hygiene graduate students who may be interested in tobacco-related research projects focusing on prevention, addiction and cessation, or policy issues.

Sincerely,

Stanton Glantz, PhD
Professor of Medicine
Director
Center for Tobacco Control Research and Education
Dear Dr. Bird:

As Director of the John A Hartford Center of Geriatric Nursing Excellence housed in the UCSF Department of Physiological Nursing, I enthusiastically support the proposed UCSF Master of Science Degree in Dental Hygiene. The proposal documents the growing numbers of older adults and the importance of developing a cadre of practitioners skilled in addressing their oral health needs. As a practitioner as well as researcher and educator in the area of gerontology, I am well aware of the importance of oral health to the overall health and well-being of older adults.

The development of the Masters of Science Degree in Dental Hygiene also offers important opportunities for collaboration. The UCSF AGRC/Hartford Online Curriculum in geriatrics will be a useful resource for providing data about older adults and changes that occur with age that influence their response to chronic conditions. Further, courses in the gerontology specialty program will offer opportunities for the dental students to interact with nursing students, gain knowledge of the health needs of older adults, and contribute their expertise related to oral health to our nursing students. Faculty in the Hartford Center and the gerontology specialty program look forward to working with UCSF School of Dentistry faculty associated with this new program to help build academic geriatric capacity to prepare critically necessary educators for basic preparation dental hygiene education programs.

Sincerely,

Margaret Wallhagen, PhD, APRN, BC, GNP
Professor, Department of Physiological Nursing
Director, John A. Hartford Center of Geriatric Nursing Excellence
January 16, 2007

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

As a Gerontological Advanced Practice Nursing Masters Specialty Coordinator, I enthusiastically support the proposed UCSF Master of Science Degree in Dental Hygiene with its emphasis on producing dental hygiene academic leaders. This endeavor will increase the numbers of oral health care providers equipped to address the complex needs of our aging population. From my clinical practice, I am acutely aware of the great need for dental care of our elders, particularly at home and in nursing homes. I am excited about this potential collaboration.

Our Nursing Courses N295 A and N295 B “Care of Older Adults” will enhance the MSDH curriculum by integrating pathophysiological, pharmacological, psychosocial, and ethical concepts for meeting the complex health care needs of older adults. As course director for N295 A, I would welcome the two MSDH graduate students into “Care of Older Adults”. I am committed to increasing knowledge about the health care of older adults, so their inclusion is consistent with my personal values. In addition, dental hygienists will enrich the discussions by bringing their oral health expertise to enhance knowledge regarding oral disease prevention across the life span and the oral health/total health relationship for our graduate nursing students.

I look forward to collaborating with the faculty associated with this proposed new program and to providing MSDH student multidisciplinary educational experiences with the graduate nursing students.

Sincerely,

Liz Macera, PhD, RN, NP-C
Co-Director, Gerontological Nursing Program
Department of Physiological Nursing
Box 0610
415-502-7774
Liz.macera@nursing.ucsf.edu
January 16, 2007

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

As you know, administrators and faculty members in the UCSF School of Nursing Department of Physiological Nursing have been collaborating with faculty dedicated to the development of a graduate program for a Master of Science Degree in Dental Hygiene. As an Associate Clinical Professor and Co-Director of the Gerontological Advanced Practice Nursing, I strongly support the proposed MSDH program with its special emphasis on oral disease prevention and health promotion for the older adult.

I am the faculty of record for N295B: Care of Older Adults, one of our core gerontological nursing courses, and concur with my departmental colleagues in welcoming future MSDH graduate students to participate in the both N295A and N295B. Integrating two dental hygiene graduate students into our graduate nursing courses will help us to meet our goal of fostering interdisciplinary teaching and learning opportunities designed to improve care for older adults. I believe this partnership will be mutually beneficial for both the School of Dentistry and the School of Nursing. I look forward to working together toward this end.

Sincerely,

Lynda A. Mackin, MS, APRN, BC, ANP
Associate Clinical Professor
Co-Director, UCSF Gerontological Advanced Practice Nursing Program
May 23, 2006

Margaret M. Walsh, RDH, MS, Ed.D, Professor
University of California, San Francisco
School of Dentistry
Department of Preventive and Restorative Dental Sciences
3333 California Street, Suite 495
San Francisco, California 94133-1361

Dear Doctor Walsh:

This letter is written in acknowledgement of the development of a Master of Science degree program in dental hygiene at the University of California, San Francisco (UCSF). On behalf of the American Dental Hygienists’ Association (ADHA), and as a graduate of the UCSF dental hygiene class of 1976, I wish to express support of the University’s commitment to the future of the dental hygiene profession. The mission of the UCSF is to "attract and educate the nation’s most promising students to future careers in the health sciences and health care professions." This statement is complementary of the mission of ADHA which is to "advance the art and science of dental hygiene ... by promoting the highest standards of dental hygiene education."

Specifically, ADHA believes Master of Science degree dental hygiene programs should have "curricula designed to provide dental hygienists with advanced concepts in social, behavioral and biological sciences and dental hygiene practice. They should provide graduates with the skills necessary to contribute to the expansion of the dental hygiene body of knowledge through research."

ADHA is particularly pleased to note that the opening of a Master of Science program at UCSF would assist in
addressing the current faculty shortage, particularly in the area of culturally diverse educators. It was noted in the proposed program that collaborative efforts and partnerships among the various schools within UCSF will be pursued. ADHA agrees this is an imperative step in order to create an interdisciplinary experience which will translate into real-world experiences for future educators and researchers.

One of the goals of ADHA is to advance the future of the profession; this includes encouraging hygienists to pursue doctoral degrees. ADHA is pleased to note that the Master of Science degree in dental hygiene at UCSF will allow individuals to pursue advanced study at the doctoral level in related fields such as education, health psychology, or gerontology.

The University of California at San Francisco is known for its visionary leadership, mission of excellence in teaching, research and community service through patient care. The creation of a Master of Science degree program in dental hygiene demonstrates the University's commitment to serve the profession and the health of the public in mentoring future educators, researchers, and public health hygienists to serve the American public.

On behalf of the ADHA, I appreciate the efforts of the University and the steering committee in advancing the art and science of dental hygiene. We look forward to a long, productive and collaborative relationship in the years to come.

Sincerely,

Katie L. Dawson, RDH, BS
President, American Dental Hygienists' Association

cc: William Bird, DDS, MPH, DrPH, Clinical Professor, UCSF
    Jane Weintraub, DDS, MPH, Lee Hysan Professor, UCSF
    Margaret Lappan Green, RDH, MS, President-Elect, ADHA
    Ann Battrell, RDH, MSDH(c), Executive Director, ADHA
    Colleen Schmidt, RDH, MS, Director of Education, ADHA
William Bird, DDS, MPH, DrPH  
Clinical Professor and Interim Chair  
Department of Preventive and Restorative Dental Sciences  
UCSF  
707 Parnassus Avenue  
San Francisco, CA 94143-0758

Dear Dr. Bird,

Thank you for the opportunity to review your proposal to establish a multidisciplinary program of study that leads to an MS Degree in Dental Hygiene at UCSF.

The proposed program is of a high quality and will help to meet the need for dental hygiene educators and the projected increase in demand among elders for oral health care. The U.S. population is aging and it is projected that by 2025, in California there will be a 58% increase in people 65 to 74 years old and a 49% increase in those 85 years and older. Unlike previous generations this elder population is expected to retain many of their teeth. There is a growing need for dental hygiene educators especially in the area of oral disease prevention and health promotion among older adults and for the general population over the lifespan. Graduates of the proposed dental hygiene master’s degree program will be well-prepared in these areas to teach in basic preparation dental hygiene education programs.

Therefore, on behalf of the California Dental Hygienists' Association, I enthusiastically support the proposed Master of Science degree in Dental Hygiene at UCSF. Thank you for taking the leadership in developing this much needed program.

Sincerely,

Lin Sarfaraz, RDH  
President
June 6, 2006

William Bird, DDS, MPH, DrPH
Clinical Professor and Interim Chair
Department of Preventive and Restorative Dental Sciences
UCSF
707 Parnassus Avenue
San Francisco, CA 94143-0758

Dear Dr. Bird,

Thank you for the opportunity to review your proposal to establish an MS Degree in Dental Hygiene at UCSF.

The proposed multidisciplinary and collaborative program that includes completion of teacher education and research preceptorships is of high quality and responsive to the growing need for dental hygiene educators. As you know, a recent survey conducted by the American Dental Education Association reported that 38% of the entry level Dental Hygiene programs responding had unfilled faculty vacancies due to a lack of qualified applicants. In addition, 68% of Dental Hygiene program directors indicated a need to replace full time faculty within the next 5 years due to projected retirement.

Basic preparation dental hygiene educational programs are expanding and there is a strong need for qualified faculty and administrators to teach and direct these professional programs.

As a graduate of the UCSF baccalaureate dental hygiene program, I am particularly proud that UCSF is the first academic institution west of the Mississippi to act on the need for graduate dental hygiene education. Historically, the development of the field of dental hygiene has been strongly influenced by the UCSF School of Dentistry.

Thus, on behalf of the American Dental Hygienists' Association, I enthusiastically support your proposal and applaud your efforts to form this much needed program of graduate studies that will offer a Master of Science degree in Dental Hygiene at UCSF.

Sincerely,

Susan McLearn
President Elect
CDHA
Appendix B

External Letters of Support and Commitment from All Directors of Basic Preparation Dental Hygiene Educational Programs in California
Dear Dr. Walsh:

I strongly support your proposal to form a program of graduate studies in Dental Hygiene at UCSF for the Master of Science Degree.

The multidisciplinary and collaborative nature of the proposed M.S. degree in Dental Hygiene is responsive to the current and projected need for dental hygiene education in California and nationwide.

I am willing to participate as a Faculty Teacher Education Mentor to provide a supportive environment for dental hygiene graduate students to pursue their education preceptorship studies. Our dental hygiene educational program is focused on preparing students for entry-level dental hygiene practice, and would provide a variety of educational opportunities for UCSF graduate dental hygiene students motivated to be educators and leaders in the field.

Sincerely yours,

B. Claire R. Clark, R.D.H., D.D.S.

Bridgette H. Clark, R.D.H., D.D.S.
Dear Dr. Walsh:

As a 1972 graduate of UCSF Dental Hygiene and an educator at the community college level since 1979, I strongly support your proposal to form a program of graduate studies in Dental Hygiene at UCSF for the Master of Science Degree.

The multidisciplinary and collaborative nature of the proposed M.S. degree in Dental Hygiene is responsive to the current and projected need for dental hygiene education in California and nationwide. I see this proposal as pivotal to the future of dental hygiene education and to dental care.

I am willing to participate as a Faculty Teacher Education Mentor to provide a supportive environment for dental hygiene graduate students to pursue their education preceptorship studies. Our dental hygiene educational program is focused on preparing students for entry-level dental hygiene practice, and would provide a variety of educational opportunities for UCSF graduate dental hygiene students motivated to be educators and leaders in the field.

Sincerely,

[Signature]

Joanne Noto Wylie, RDH, MA
First Year Clinic Coordinator
Dental Hygiene Program
Email joanne.wylie@cabrillo.edu
831-479-6480
Dear Dr. Walsh:

I strongly support your proposal to form a program of graduate studies in Dental Hygiene at UCSF for the M.S. degree.

The multidisciplinary and collaborative nature of the proposed M.S. degree in dental hygiene is responsive to the current and projected need for dental hygiene education in California as well as nationwide. At least two of the full time faculty at Cerritos College will be retiring within the next 5 years and recruitment will be for individuals who not only have had courses in teaching methodology, but also have actual teaching experience. In addition, a good foundation in research methods, geriatrics, and socio-cultural issues will guarantee this individual will thrive in our basic dental hygiene educational environment and further the quality of the profession.

I am willing to participate as a Faculty Teacher Education Mentor to provide a supportive environment for dental hygiene graduate students to pursue their education preceptorship studies. Our dental hygiene educational program is focused on preparing students for entry-level dental hygiene practice, and would provide a variety of educational opportunities for UCSF graduate dental hygiene students motivated to be educators and leaders in the field. Cerritos College has a successful history of acting in such capacity in a variety of venues.

Sincerely,

Patricia Stewart, RDH, MA, Ph.D.
Director, Dental Hygiene Program
562.860.2451 x 2557
pstewart@cerritos.edu
April 26, 2006

Margaret M. Walsh RDH, MS, EdD-Professor
Dept. of Preventive and Restorative Dental Science
UCSF
3333 California Street, Suite 495
San Francisco, CA 94114-1361

Dear Dr. Walsh:

Thank you for the opportunity to review the proposal to form a Master’s Degree Program in Dental Hygiene at UCSF. I strongly support the efforts of you and your colleagues. Offering a master’s degree in dental hygiene would allow many of the dental hygienists across the state who wish to pursue a career in dental hygiene education an avenue to achieve their goals. Your proposal is also extremely timely as we face a critical shortage of qualified dental hygienists needed to teach in our programs.

One of the key components of your proposal is the Faculty Teacher Education Mentor component. As an instructor and the director of our program, I would welcome the opportunity to serve as a mentor institution for your students. Our program is an Associate’s Degree program that prepares our students for entry level positions in the field of dental hygiene upon licensure. The broad based nature of the program would provide a multitude of opportunities for your graduate students to work as educators and as student mentors.

It is very exciting to see UCSF moving in this direction. If I can be of any further help in supporting your goal to establish this program, please let me know.

Sincerely,

JoAnn Galliano MEd., RDH
Program Director
July 12, 2006

Ina M. Rydalch, R.D.H., M.A.,
Director of Dental Hygiene
Cypress College
9200 Valley View Street
Cypress CA 90630
(714) 484-7299
irydalch@cypresscollege.edu
Rydalch@infoonline.net

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh:

Several years ago the American Dental Educators Association (ADEA) predicted the graying of dental and dental auxiliary faculty with a prediction of shortages in educators for all dental professions. This prediction has come to fruition, with the retirement of dental hygiene faculty throughout the country leaving shortages in educators and programs dealing with limited continuity in instruction and the continual mentoring and orientation of new adjunct faculty.

As the Educational Representative for the American Dental Hygiene Association, for the state of California, the increase in announcements for positions in dental hygiene programs (for educators/instructors) has increased 30% to 40% in the last five years I have held this position. The shortage is gravely apparent as I forward information to all of the dental hygiene program directors in California.

Additionally as a curriculum representative for the American Dental Association, and the United States Department of Education (12 years), it is apparent through site visits for accreditation (throughout this country) that faculty are preparing for retirement and adjuncts are not educationally prepared to accept the responsibility of full time teaching.
We are greatly in need of educational programs to support instructional methodologies that will prepare our future teachers for dental hygiene education. I wholeheartedly support your proposal to offer a Master of Science degree in Dental Hygiene.

This proposed program of graduate study will contribute substantively to the current and projected shortage of dental hygiene educators.

At Cypress College we would like to extend our invitation to students within the program (once established) to providing an educational preceptorship opportunity at Cypress College. Our college has received a Federally funded grant to support mentoring of our students by dental hygiene educators. This grant allows adjunct faculty to support instruction and remediation by tutoring our students in clinical and academic areas where student deficiency is demonstrated. Therefore, it would be possible to support an internship with grant funding through this program. We do hope you will consider our invitation for preceptorship.

Sincerely,

Ina M. Rydalch, R.D.H., M.A.

Ina M. Rydalch, R.D.H., M.A.
Dear Ms. Walsh,

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene to prepare leaders and educators for the field. Nationally there is a need for dental hygiene educators and administrators due to the aging population of our educators. It is necessary to support and develop dental hygiene graduates with advanced degrees who will dedicate their careers to dental hygiene education. I hope you will be able to provide a leadership role to this advanced degree. UCSF has the resources and are highly regarded in the dental field to facilitate and extend this opportunity to dental hygiene graduates.

You have strong support from the dental hygiene faculty at Diablo Valley College. I look forward to working with you to make this proposed graduate dental hygiene program a reality and success. This proposal is very exciting and is extremely important to future dental hygiene education. I look forward to helping train and mentor dental hygiene educators who will be awarded a Master of Science degree.

Sincerely,

Gay V. S. Teel
Program Coordinator
Dental Hygiene Department
Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh:

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene.

The multidisciplinary and collaborative nature of the proposed M.S. degree in Dental Hygiene is responsive to the current and projected need for dental hygiene education in California and nationwide.

We are happy to participate in the proposed program and shall be involved in providing an educational preceptorship opportunity if needed. I am willing to participate as a member of the Advisory Group.

Sincerely,

Phyllis Spragge
Phyllis Spragge RDH, MA
Foothill College Dental Hygiene Director
12345 El Monte Road
Los Altos Hills, CA 94022
Phone 650-949-7467
Fax 650-947-9877
spraggephyllis@foothill.edu
May 4, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA. 94143-1361

Dear Dr. Walsh:

We enthusiastically support your proposal to form a program of graduate studies that will offer a Master of Science degree in Dental Hygiene. The creation of this program is an idea of exceptional merit.

The MS degree in Dental Hygiene should be established because there is a need for more dental hygiene educators who will develop and sustain long-term careers in academia. This advanced training is a natural progression for students at Fresno City College who want to take their education to the next level.

The proposed MS degree in dental hygiene is multidisciplinary and collaborative and will train graduates exceptionally well. The structure of the proposed MS program includes mentored educational and preceptorship research and will “role model” the type of faculty that will advance future dental hygiene research and education.

Sincerely,

Monta Denver, RDH, MS
Clinical Chair, Department of Dental Hygiene

Jean Kulbeth, RDH, MS
Academic Chair, Department of Dental Hygiene
July 21, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh,

Thank you for the opportunity to review your proposal for a Master of Science in Dental Hygiene at UCSF School of Dentistry. Your dedication to the creation of this advanced degree is exemplary. Our current and future dental hygiene faculty, alumni and communities of interest in California will greatly benefit from this unique educational experience in oral disease prevention and health promotion.

There is a documented need to increase the number of dental hygiene educators in California and throughout the US. Retaining dental hygiene educators who have the knowledge, skill, and the professional values to lead our students through an evidence-based, interdisciplinary, and culturally diverse curriculum is mandatory for the future of oral health care in California. It is very exciting to see how this program applies current educational research strategies using preceptorship locations and mentoring models for adult professional education.

I enthusiastically support your proposal to form a program of graduate studies that will offer a Master of Science degree in Dental Hygiene. The vision and creation of this program is of exceptional merit. Thank you for your time and energy toward this very worthwhile degree for our dedicated and compassionate dental hygiene educators of the future.

Sincerely,

Kristi Wilkins, MA, BS, RDH
Chair, Department of Dental Hygiene, Loma Linda University
September 19, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh:

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene. The proposed program will effectively respond to the current and projected shortage of dental hygiene educators.

The Graduate Group structure at UCSF provides an ideal environment for fostering interdisciplinary collaboration and innovation in Dental Hygiene education.

We offer an entry-level dental hygiene educational program and will participate as an educational preceptor site if the proposed program is approved.

Sincerely,

/\ Dr. Christina Tafoya
Interim Coordinator
Oxnard College Dental Hygiene Program
July 10, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh:

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene. As a dental hygiene educator I am very aware of the need for your proposed program. This type of program is long overdue in California.

The proposed structure of the MS program, including mentored educational and research preceptorships will effectively prepare graduates to assume faculty positions in dental hygiene educational programs.

Sincerely,

Thomas P. Neiderer RDH, MPH
Dental Hygiene Program Director
Pasadena City College
Dear Dr. Walsh,

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene. The proposed program will effectively respond to current and projected shortage of dental hygiene educators.

The Graduate Group model provides an ideal environment for fostering interdisciplinary collaboration and innovation in Dental Hygiene education. The required mentor component strengthens the program.

The Riverside Community College Dental Hygiene Program is an Associate in Science degree program that is available to participate as an educational preceptor site if the proposed program is approved.

Sincerely yours,

Donna Lesser
Director, Dental Hygiene Program
May 24, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh,

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene.

The proposed structure of the MS program, including mentored educational and research preceptorships will effectively prepare graduates to assume faculty positions in dental hygiene educational programs.

I especially agree with the emphasis you are placing on Geriatrics.

Dental hygiene education will need many qualified educators in the near future and this program will help to that end.

Sincerely,

Michael R. Dunne DDS
Director, Dental Health Programs
August 13, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh:

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene.

The proposed structure of the MS program, including mentored educational and research preceptorships will effectively prepare graduates to assume faculty positions in dental hygiene educational programs.

I am willing to participate as a Faculty Teacher/Administrator Education Mentor to provide a supportive environment for dental hygiene graduate students to pursue their education preceptorship studies. Our dental hygiene educational program is focused on preparing students for entry-level dental hygiene practice, and would provide a variety of educational opportunities for UCSF graduate dental hygiene students motivated to be educators and leaders in the field.

As director of a program with two campus sites (Visalia and Rancho Cucamonga) and over 16 full-time faculty, I can attest to the need for an educational opportunity within the state that offers a Master of Science degree in Dental Hygiene.

Sincerely,

Cindy J. Callaghan, RDH, BA
Director of Dental Hygiene
Dear Dr. Walsh:

The proposal to establish a program of Graduate Studies in Dental Hygiene at UCSF for the M.S. Degree is exciting and very necessary. I believe that the Graduate Group structure at UCSF will provide an ideal environment for fostering interdisciplinary collaboration and innovation in Dental Hygiene education.

As the Director of Allied Dental Education at Santa Rosa Junior College, I am very concerned about the shortage of qualified dental hygiene faculty and program administrators. Many of our current faculty are UCSF graduates.

Dr. Ezbon Jen, Dean of Health Sciences and I would like to have SRJC participate as an educational preceptor site if the proposed program is approved.

I appreciate the invitation to provide feedback and am pleased to offer the support of Santa Rosa Junior College.

Sincerely,

Doni L. Bird, RDH, MA
Director, Allied Dental Education
Margaret M. Walsh, RDH, MS EdD  
Professor  
Department of Preventive and Restorative Dental Sciences  
University of California, San Francisco  
3333 California Street, Suite 495  
San Francisco, CA 94143-1361

Dear Dr. Walsh:

I have spent considerable time reviewing your proposal for the creation of Master of  
Science Degree (M.S.) in Dental Hygiene at UCSF. In doing so I have gained a new  
understanding as to the importance and necessity of such a program. Our accredited  
programs in California adequately provide students who are prepared for entry level  
clinical practice, however, what we lack are programs which would allow those  
academically motivated students to become educators and leaders in the field of dental  
hygiene. I am confident that UCSF is the best choice to pioneer such a program because  
of its renowned standard of excellence in dentistry, superb faculty, and its centralized  
location in the state.

Our dental hygiene program at Shasta College would welcome the opportunity to support  
and serve as a future site for educational preceptorships, and to mentor graduate students,  
should the proposal be affirmed.

Sincerely,

Charles D. Cort RDH, MA.

[Signature]
May 16, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh:

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene to prepare leaders and educators for the field.

Nationally, scientific and policy leaders have emphasized the need for dental hygiene educators. To do this, it is necessary to support and develop a cadre of dental hygiene graduates with advanced degrees who will dedicate their careers to dental hygiene education. The expertise and resources at UCSF position you nicely to play a leadership role in this arena. Programs that are connected to a dental school offer a richness that students cannot enjoy in other generic education graduate programs. They allow for discipline-specific educator training that is so valuable.

I look forward to working with you to make the proposed graduate dental hygiene program a success.

I give my strongest support to this graduate program in dental hygiene and look forward to helping train dental hygiene educators who will be acknowledged with the award of a MS degree.

Sincerely,

[Signature]

Terri Poulos, R.D.H., M.Ed.
Acting Director, Dental Hygiene Program
Southwestern College
Dear Dr. Walsh:

This is to offer my support for the formation of a program of graduate studies in Dental Hygiene at UCSF for the MS degree. There is a need for well-prepared dental hygiene educators nationwide and the UCSF program is responsive to that need.

We have a dental hygiene educational program that prepares students for entry-level practice. If the proposed program is affirmed, we would welcome the opportunity to serve as a site for educational preceptorships and to mentor graduate students in this context.

Sincerely,

Stacy Eastman, RDH, DDS
Director of Dental Hygiene
Dear Dr. Walsh:

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene.

This proposed program of graduate study will contribute substantively to the current and projected shortage of dental hygiene educators.

We are happy to participate in the proposed program and shall be involved in providing an educational preceptorship opportunity if needed. I am willing, and honored, to participate as a member of the Advisory Group.

Sincerely,

Cindy Lyon
RDH, DDS
Dental Hygiene Program Director
May 16, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh:

I and the USC Dental Hygiene faculty enthusiastically support your proposal to form a program of graduate studies that will offer a Master of Science degree in Dental Hygiene. The creation of this program is an idea of exceptional merit.

The MS degree in Dental Hygiene should be established because there is a need for more dental hygiene educators who will develop and sustain long-term careers in academia. This advanced training is a natural progression for students at the University of Southern California who want to take their education to the next level. In my exit interview with our graduating seniors, 80% indicated they were interested in pursuing a Master’s degree.

The proposed MS degree in dental hygiene is multidisciplinary and collaborative and will train graduates exceptionally well. The structure of the proposed MS program includes mentored educational and research preceptorships and will “role model” the type of faculty that will advance future dental hygiene research and education.

Sincerely,

Diane Melrose, RDH, BS
Chair, Dental Hygiene
USC School of Dentistry
925 West 34th Street
Los Angeles, CA 90089-0641
PH. 213-740-1089
FAX 213-740-1094
mmelrose@usc.edu
May 10, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive and Restorative Dental Services
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh,

This is to offer my support for the MS degree program of graduate studies in Dental Hygiene at UCSF. There is a need for well-prepared dental hygiene educators nationwide and in California; the UCSF program is responsive to that need. Many educators in the California Dental Hygiene programs will retire in the near future and new full-time faculty members are needed to fill these positions. The proposed UCSF Dental Hygiene program is responsive to the skills needed, technology use in education, teaching methodology and research knowledge.

We have an entry level dental hygiene educational program that primarily prepares students for private practice. If the proposed program is affirmed, we would welcome the opportunity to serve as a site for educational preceptorships and to mentor graduate students in this context.

Sincerely,

Ulla E. Lembom, RDH, MS
Chair of Allied Health Division
Director of Dental Hygiene
June 2, 2006

Margaret M. Walsh, RDH, MS, EdD
Professor
Department of Preventive & Restorative Dental Sciences
University of California, San Francisco
3333 California Street, Suite 495
San Francisco, CA 94143-1361

Dear Dr. Walsh:

I strongly support your proposal to offer a Master of Science degree in Dental Hygiene at UCSF School of Dentistry.

The proposed structure of MS program, including mentored education and research preceptorships, will effectively prepare graduates to assume faculty positions in dental hygiene educational programs.

I am willing to participate as a Faculty Education Mentor and to provide a supportive environment for dental hygiene graduate students to pursue their education preceptorship studies. Our dental hygiene educational program is focused on preparing students for entry-level dental hygiene practice, and is able to provide a variety of opportunities to educate UCSF graduate dental hygiene students to become educators and leaders in the field.

Sincerely,

Dorothy J. Rowe, R.D.H., M.S., Ph.D.
Regional Director, Dental Hygiene Programs
Western Career College

Associate Professor Emeritus
Department of Preventive & Restorative Dentistry
University of California, San Francisco
Appendix C

Program Administrative & Oversight Committees
Appendix C:

The MSDH Program Administrative & Oversight Committees
Administrative home: Department of Preventive & Restorative Dental Sciences (PRDS), School of Dentistry, UCSF

Preventive & Restorative Dental Sciences Departmental Committees will be organized primarily to administer and coordinate the graduate program leading to the Master of Science degree in Dental Hygiene (MSDH), at the San Francisco Campus (UCSF) of the University of California. This committee structure also provides a means of representing Dental Hygiene collectively to the University administration and to other academic groups both internal and external. Where applicable, School of Dentistry Committees that are established by regulation will be utilized.

1.0 MSDH Executive Committee

The management of the MSDH Program shall be vested in a MSDH Program Executive Committee housed in the Department of PRDS. This committee will consist of seven faculty members associated with the MSDH Program, 3 ex officio members, 3 elected members, and the PRDS Department Chair, all of whom shall be voting members. They shall be selected according to the following criteria:

The ex officio members shall include the Chair of the PRDS Department, or the Chair of the Division of Oral Epidemiology and Dental Public Health, who will serve as the chair of the committee, the MSDH Program Director, and the Chair of the School’s Educational Policy Committee.

The MSDH Program’s Executive Committee will have three members who are elected in staggered three-year terms, one member representing the School of Dentistry, and two representing an affiliated UCSF program such as the AGRC or the HCGNE.

The MSDH Program's Executive Committee will also serve as its' own Membership Committee. The Chair will have responsibility for seeing that the membership of the Executive Committee is properly divided with representation as specified above. When insufficient nominations have been received for any of the represented membership categories, the Chair shall have the authority to nominate as many members as is minimally necessary to satisfy the aforementioned provision. All terms will be of three-year duration. Untimely vacancies will be filled in mid-year if needed, by appropriate elections. Members so elected will serve for the remaining portion of the term associated with the vacancy.

Changes in degree requirements will be proposed by the MSDH Executive Committee, subject to approval by two-thirds of the MSDH program faculty before being submitted to School of Dentistry EPC and then on to Graduate Council for review and approval.
The Chair of the Graduate Council approves graduate adviser appointments. The MSDH Executive Committee will provide nominations to the Associate Dean for Graduate Programs. The Associate Dean will review and recommend nominees for graduate advisors to the Chair of Graduate Council for appointment.

A quorum of the MSDH Executive Committee will consist of at least four individuals.

Duties of the MSDH Executive Committee will include the following:

- Participate in the selection of new students into the program.
- Submission of curriculum changes to the School of Dentistry’s EPC and ultimately to the Graduate Council for review and approval.
- Addressing other MSDH Program issues as needed.

2.0 Standing Committee

Each spring, after the election of new members to the MSDH Executive Committee has been completed, the Executive Committee shall appoint members to serve for terms of two years on the following standing committee:

*Committee on Student Mentorship*

The Chair of this committee will be appointed by the Chair of the MSDH Executive Committee in consultation with the Executive Committee members.

This committee will consist of three members, one of whom is the Chair. It is charged with making recommendations regarding the mentored academic educator and research components of the program, including approval of student assignment to research mentors, development of the Mentorship Handbook, and mentor/mentee orientation. Other activities will include mentorship advising and assigning academic advisors to new students for the duration of their program at UCSF.
Appendix D

Comprehensive Examination Options, Areas to be Addressed & Evaluation Criteria
Appendix D:

The purpose of the comprehensive examination is to evaluate the student’s ability to apply advanced clinical and theoretical knowledge related to oral disease prevention and health promotion in a selected area of interest and to critique research as it relates to that area.¹ This examination will be based on a written capstone project that consists of one of the following options selected by the student: a Problem Solving Proposal, a Critical Literature Review, or a Research Proposal:

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University of California, San Francisco  
School of Dentistry  
Dental Hygiene Master’s Comprehensive Examination

Problem Solving Proposal

The purpose of the Problem Solving Proposal (PSP) is to evaluate the student’s ability to effectively communicate the resolution of a dental hygiene problem in an area of oral disease prevention and health promotion.

PSP: AREAS TO BE ADDRESSED

I. Problem and its Environmental Context

A. Identify a significant dental hygiene problem in an area of oral disease prevention and health promotion

B. Describe the characteristics of the environment within which the problem exists

II. Literature Review: Critical Analysis

A. Document the nature of the problem and current approaches to its resolution

EVALUATION CRITERIA

• Clarity of problem -- Describes an identified need stemming from a discrepancy between what is or what could/should be. The description should specify how this is known to be a problem. The problem statement includes the context of the problem by succinctly identifying who is solving the problem, where the problem occurs, what is to be accomplished, and who is the target population.

• Significance of problem -- Introduces the importance of the problem to clients and/or the dental hygiene profession.

• Clarity of setting -- Describes the nature of the physical, socio-economic, and/or cultural setting (e.g., home, hospital). Describes those critical factors that are relevant to the problem.

• Clarity of roles and inter-relationships -- Describes responsibilities and functions of individuals significant to the problem, including the roles and responsibilities of the dental hygienist. Explains the nature of the interactions between significant individuals and the influence of the setting on their relationships.

• Quality of references -- Reviews references significant to the area, including classic and current works; identifies gaps in the literature.

• Addresses elements of critique --

Non-research literature (theory and issues):
  Clearly articulates main point(s) of the article;
  Establishes credibility of author/content
Research literature (following criteria are addressed):
  Sample subjects and selection criteria
  Design appropriateness of design threats to validity
  Procedure description of procedural steps
III. Intervention, Implementation, and Evaluation

A. State the intervention or action to be taken to resolve or reduce the problem.

B. Identify theoretical construct(s) underlying the nature of the problem and/or its resolution.

C. Define an evaluation procedure for the selected intervention.

Evaluation Criteria

- Quality of critique and interpretation - Demonstrates ability to accurately evaluate the elements listed above and their potential contribution to knowledge.

- Quality of theoretical discussion - Demonstrates an enhanced understanding of the nature of the problem and/or specifies the desired outcome(s) to be achieved by resolving or reducing the problem via the theoretical discussion.

- Clarity of expected outcomes - Specifies the desired outcome(s) to be achieved by resolving or reducing the problem.

- Defensibility - Demonstrates that the intervention has the potential for substantial improvement in the problem. If necessary, justifies choice compared with other alternatives, using relevant research and/or theory.

- Realism - Shows feasibility of the intervention as it pertains to the environmental context (e.g., role of the nurse, available resources, interrelationships) as discussed in Area I. B.

- Clarity of implementation - Outlines procedures for implementing the intervention in a logical sequence.

- Appropriateness of implementation - Considers the resources and constraints in the environment.

- Clarity of evaluation criteria - Delineates specific, measurable, and appropriate criteria for assessing each expected outcome.

- Appropriateness of evaluation procedure - Describes how data would be collected to evaluate the effect of the intervention.
The purpose of the Critical Literature Review (CLR) is to evaluate the student's ability to critically analyze a controversial and significant topic or issue, and to discuss implications for dental hygiene practice from this analysis.

**CLR: AREAS TO BE ADDRESSED**

I. The Topic or Issue: Presentation and Exposition
   
   A. Identify a significant topic or issue in the literature, provide a rationale within a conceptual approach, and how the critical literature review is organized.

II. Literature Review: Critical Analysis

   A. Demonstrate a theoretical approach to the topic and critically analyze relevant research.

   B. Build a case for depicting major gaps or accomplishments in the literature.

**EVALUATION CRITERIA**

- **Clarity of topic and purpose** – Clearly states in the introduction to the paper the topic or issue and the reason(s) for its selection. The purpose of the review is well defined, concisely stated, and congruent with the selected topic or issue.

- **Significance** – States significance of the topic for dental hygiene practice and research. The history and importance of the topic or issue are described.

- **Organization of review** – Clearly describes how review is organized, including conceptualization of approach and rationale for articles selected for review, and other inclusion or exclusion criteria (i.e. “only dental hygiene authors,” “only dental hygiene journals,” “only journals since 1998”).

- **Quality of references** – Selects significant literature, including classic and current articles.

- **Quality of theoretical discussion** – Clearly discusses a relevant theory that demonstrates an enhanced understanding of the topic or issue. In some cases, theory may more directly relate to Section III, (practice implications) than to this section.

- **Addresses elements of critique** –

  Non-research literature (theory and issues):
  
  Clearly articulates main point(s) of the article; establishes credibility of author/content

Research literature (following criteria are addressed):
III. Discussion and Application

A. Interpret and discuss practice implications and need for future research via a synopsis of the literature review.

EVALUATION CRITERIA

- Sample: subjects and selection criteria
  appropriateness of design threats to validity

- Procedure: description of procedural steps

- Measures: reliability and validity, description/definition of measurement

- Results: data analyses described
  data fully presented
  findings logically presented

- Conclusions: author’s interpretation of findings
  author’s discussion of limitations
  author’s discussion of generalization

- Quality of critique and interpretation - Demonstrates ability to accurately evaluate the elements listed above and its potential contribution to knowledge.

- Critical and original analysis -- Analyzes the body of literature that was reviewed in Section II. Summarizes the significant accomplishments in the literature, presents discussion congruent with the reviewed articles and appropriate to the topic and purpose.

- Integration, synthesis, and implication - Describes the relationship between major findings and identifies gaps in literature, the implications for practice, and further research. Formulates pertinent, researchable questions, propositions, and hypotheses based on the synthesis of findings/ gaps. Discusses significance for nursing practice.
University of California, San Francisco
School of Dentistry
Dental Hygiene Master's Comprehensive Examination

Research Proposal

The purpose of the Research Proposal (RP) is to evaluate the student's ability to identify a significant research question relevant to dental hygiene practice, and to design a methodology for addressing the question.

RP: AREAS TO BE ADDRESSED

I. Study and its Context

Introduce the specific problem being addressed, the aims of the study and its significance to dental hygiene and society.

EVALUATION CRITERIA

Clarity of purpose – Delimits the focus of the research clearly, precisely, and concisely specifying the problem variables to be studied. Specifies the reasons for focusing on the selected problem variables while excluding others.

Comprehensiveness and conciseness – Presents the study purpose and its context in a logical and succinct manner.

Implications and significance – Clearly argues the practical and theoretical importance of the question and the value of the potential study findings to society and the dental hygiene profession.

II. Conceptual Framework and Literature Review

Explicate the perspective (conceptual or theoretical framework) and preliminary work guiding the study. Focus on the theoretical and research base for questions/hypotheses of interest.

Clarity – Presents the perspective(s) selected to guide this study. States assumptions, defines concepts/terms to be used, and specifies questions or hypotheses.

Comprehensiveness and relevance of theoretical discussion – Cogently synthesizes existing theoretical literature directly related to the study.

Quality of research critique – Accurately evaluates pertinent research on the basis of merit (sampling, design, results) and implications in relation to the proposed research proposal.

Quality of references – Includes literature significant to the area, including classic and current knowledge about this problem.
III. Methodology

Describe in detail the following parameters:

- study design
- setting including environmental resources and/or constraints
- sample (the numbers and characteristics involved), selection process and consent forms
- materials, tools, and instruments used and discusses the reliability, validity, and appropriateness of each (include instrument in an appendix)
- procedures used including interventions and/or protocols
- data analysis
- resources to be used in the conduct of the proposed study
- limitations of the proposed study

Evaluation Criteria

Adequacy - Uses a methodology that adequately addresses the problem/variables specified. Underlying logic is made explicit for the choice of design, setting and sample, and selection process.

Consistency - Provides a fit between design, setting, sample, method of inquiry, and procedures with the question being addressed.

Clarity - Presents the methods so that another nurse within that specialty area could replicate the study.

Appropriateness - Addresses issues of validity and reliability of instruments or method of inquiry, adequacy of procedures, and appropriateness of data analysis.

Feasibility - Includes budget estimates for the project including personnel, materials and overall costs. Identifies a potential source of funding.

Integrity - Demonstrates prudence and sensitivity to concerns/needs of others potentially involved and/or affected by the study (e.g., subjects, families, setting and personnel, informed consent process, etc.).

Realism - Addresses the realities of accessing the target population, gathering desired data, and conducting the specified analysis.
University of California, San Francisco
School of Dentistry
Dental Hygiene Master's Comprehensive Examination

Problem Solving Proposal
Scoring Sheet

Student Identification Number: ____________________________

Scoring Procedure:

1. Refer to the PSP evaluation criteria for definitions of criteria listed below.

2. Check the appropriate rating for each criterion. Criterion scores for graduating master's students should be predominantly 4 and 5. A consistently fair (3) performance will not yield a passing score.
   
   5 = excellent
   4 = good
   3 = fair
   2 = poor
   1 = very poor or absent

3. Multiply the area total by the designated number (i.e., 5.25 or 3.0).

4. Add area scores to obtain a point total for the exam.

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<th>Content Criteria</th>
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AREA TOTAL ______

AREA TOTAL × 5.25 = ______
(105 points possible)
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<td>AREA TOTAL × 5.25 = (105 points possible)</td>
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<td>• Defensibility</td>
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<td>• Clarity of implementation</td>
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<td>AREA TOTAL × 3.0 = (105 points possible)</td>
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<td><strong>Area IV: Technical Criteria</strong></td>
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<td>4</td>
<td>5</td>
<td></td>
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<tr>
<td>• Organization of paper (clear and logical sentence structure)</td>
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**AREA TOTAL =** 
(15 points possible)

**Summary (PSP)**

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<th>Score</th>
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<td>I</td>
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</tr>
<tr>
<td>II</td>
<td>(105)</td>
</tr>
<tr>
<td>III</td>
<td>(105)</td>
</tr>
<tr>
<td>IV</td>
<td>(15)</td>
</tr>
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</table>

**Total Exam Points**

Total Points Possible: 330

Points Needed to Pass: 231

Check one: Pass ☐ Fail ☐
Critical Literature Review Scoring Sheet

Student Identification Number: ____________________________________________

Scoring Procedure:

1. Refer to the CLR evaluation criteria for definitions of criteria listed below.

2. Check the appropriate rating for each criterion. Criterion scores for graduating master’s students should be predominantly 4 and 5. A consistently fair (3) performance will not yield a passing score.
   
   5 = excellent  
   4 = good  
   3 = fair  
   2 = poor  
   1 = very poor or absent  

3. Multiply the area total by the designated number (i.e., 3.5, 11.0, or 8.0).

4. Add area scores to obtain a point total for the exam.

<table>
<thead>
<tr>
<th>Content Criteria</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Scores</th>
</tr>
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<tbody>
<tr>
<td>Area I: Topic or Issue</td>
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<td></td>
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<td></td>
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<tr>
<td>- Clarity of topic and purpose</td>
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<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
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<tr>
<td>- Significance</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
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<tr>
<td>- Organization of review</td>
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<td>3</td>
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<tr>
<td>- Quality of references</td>
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<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

AREA TOTAL

AREA TOTAL × 3.5 = (70 points possible)
Content Criteria 1 2 3 4 5 Scores

Area II: Literature Review

- Quality of theoretical discussion 1 2 3 4 5
- Addresses elements of critique 1 2 3 4 5
- Quality of critique and interpretation 1 2 3 4 5

AREA TOTAL

AREA TOTAL × 11.0 =
(165 points possible)

Area III: Discussion and Application

- Critical and original analysis 1 2 3 4 5
- Integration, synthesis, and implication 1 2 3 4 5

AREA TOTAL

AREA TOTAL × 8.0 =
(80 points possible)

Area IV: Technical Criteria

- Grammar and spelling 1 2 3 4 5
- Organization of paper (clear and logical sentence structure) 1 2 3 4 5
- APA format 1 2 3 4 5

AREA TOTAL =
(15 points possible)
Summary (CLR)

Area I  (70)
Area II  (165)
Area III (80)
Area IV  (15)

Total Exam Points

Total Points Possible: 330
Points Needed to Pass: 231

Check one: Pass □ Fail □
University of California, San Francisco
School of Dentistry
Dental Hygiene Master's Comprehensive Examination

Research Proposal
Scoring Sheet

Student Identification Number: _____________________________

Scoring Procedure:

1. Refer to the RP evaluation criteria for definitions of criteria listed below.

2. Check the appropriate rating for each criterion. Criterion scores for graduating master's students should be predominantly 4 and 5. A consistently fair (3) performance will not yield a passing score.
   - 5 = excellent
   - 4 = good
   - 3 = fair
   - 2 = poor
   - 1 = very poor or absent

3. Multiply the area total by the designated number (i.e., 4.2, 6.3, or 3.6).

4. Add area scores to obtain a point total for the exam.

<table>
<thead>
<tr>
<th>Content Criteria</th>
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<th>3</th>
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<th>5</th>
<th>Scores</th>
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<td>• Clarity of purpose</td>
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<td>• Implications and significance</td>
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AREA TOTAL × 4.2 = (63 points possible)

UCSF School of Nursing · Master's Comprehensive Examination Handbook · Page 23 of 30 · 8/2004 Edition
### Content Criteria

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<table>
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<tr>
<td>1 2 3 4 5</td>
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### Area III: Methodology

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<th>Scores</th>
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<tr>
<td>1 2 3 4 5</td>
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### AREA TOTAL

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## Content Criteria

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<th>5</th>
<th>Scores</th>
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</table>

### Area IV: Technical Criteria

- **Grammar and spelling**
  - Scores: 1 2 3 4 5

- **Organization of paper (clear and logical sentence structure)**
  - Scores: 1 2 3 4 5

- **APA format**
  - Scores: 1 2 3 4 5

**AREA TOTAL =** (15 points possible)

### Summary

(RP)

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<td>Area IV</td>
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</table>

**Total Exam Points**

**Total Points Possible:** 330

**Points Needed to Pass:** 231

Check one: Pass ☐ Fail ☐
Appendix E

MSDH Academic Review Form
MSDH Academic Review Form

Name

Faculty Advisor

1. Attend MSDH Orientation
   Date: ______

2. Quarterly meeting with faculty advisor
   Dates: __________ __________

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<td>N 295A (3 units) - Fall</td>
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<td>S 211 B (2 units) - Winter</td>
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Additional Comments
Appendix F

Sample Job Listings for Dental Hygienists with Advanced Degrees
June 2008
Vol 41, Issue 6

HEADLINES

Classified Advertising for June

ARIZONA: Dental Programs Resident Faculty
Mohave Community College is a premier rural two-year comprehensive community college dedicated to enhancing careers, lives and futures. The mission of the college is to serve our students and communities by providing an environment for educational excellence, innovation and awareness. We have a Dental Programs Resident Faculty position starting August 2008. Responsibilities include didactic, preclinical, clinical teaching, academic advising of program students, and participation in advisory committees as required. For full description, visit www.mohave.edu/jobs. Qualifications: Bachelor's Degree required, master's Degree preferred. Must have Arizona RDH or be eligible for licensure. Anesthesia certification preferred. Clinical practical experience and prior teaching experience strongly desired. Must be computer literate.

CALIFORNIA: Pediatric Dentistry
The University of the Pacific Arthur A. Duong School of Dentistry seeks candidates for a full-time, tenure-track faculty position at the rank of Assistant or Associate Professor in the Department of Pediatric Dentistry. Salary and academic rank will be commensurate with the candidate's qualifications and experience. The position will be available July 1, 2008. The applicant will participate and demonstrate excellence in clinical and didactic teaching of predoctoral students in pediatric dentistry, scholarly research, service and continuing education. Requirements include a D.D.S./D.M.D. degree and a certificate or Master's degree indicating successful completion of an ADA-accredited specialty training program in pediatric dentistry. A current, active license to practice dentistry is also required. Review of applications will begin upon receipt and will continue until the position is filled. Applicants should send a current curriculum vitae, a statement describing their scholarly and clinical accomplishments and interests, and phone numbers and addresses of at least three professional references to Dr. A. Jeffrey Wood, Professor and Chair, Department of Pediatric Dentistry, University of the Pacific Arthur A. Duong School of Dentistry, 2155 Webster Street, San Francisco, CA 94115-2333 or submit an email attachment to Dr. Wood (jwood@pacific.edu). The University of the Pacific is an equal opportunity employer.

CALIFORNIA: Preventive and Restorative Dental Sciences
The University of California at San Francisco seeks three full-time faculty members in several of its faculty series (see individual descriptions below) in the Department of Preventive and Restorative Dental Sciences (PRDS) for its division of General Dentistry, commencing on or before September, 2008. Candidates are required to have a D.D.S., D.M.D., or equivalent from an institution accredited by the ADA, and California licensure or eligibility for licensure in California. Candidates also having a Ph.D. in a relevant discipline are preferred. The School of Dentistry is a world leader in research of orofacial diseases and the study of materials and therapies applied to their prevention and treatment. Salary augmentation will be available via participation in the Departmental Compensation Plan and the PRDS Faculty Group Practice with California licensure by the Dental Board of California. Tenure Track/Residence Faculty: Faculty in these series have significant teaching, research, service and clinical responsibilities. Teaching includes predoctoral and postgraduate dental and graduate students and post doctoral scholars. Those having specialty training in an appropriate dental specialty are encouraged. The successful candidate will demonstrate a history of or high potential for...
development of an independent research program. Clinical or translational research interests in aesthetic dentistry, biomaterials or dental implants are desired. Clinical Faculty: Faculty in this series have significant teaching, clinical, service, and scholarly responsibilities. Teaching includes pre-doctoral and postgraduate dental students, and may include graduate students, and post-doctoral scholars. Those having specialty training in an appropriate dental specialty are encouraged. The successful candidate will demonstrate a history of high potential for excellence in teaching and scholarly work relevant to advancement in the areas covered by general dentistry. Those having the potential to develop significant clinical or translational research interests in aesthetic dentistry, biomaterials or dental implants are desired.

UCSF seeks candidates whose experience, teaching, research or community service has prepared them to contribute to our commitment to diversity and excellence. Applicants should submit a letter of intent and CV to Dr. Grayson Marshall, Chair, General Dentistry Search Committee, University of California at San Francisco, Box 0758, San Francisco, CA 94143-0758. UCSF is an affirmative action/equal opportunity employer. The University undertakes affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities, and for covered veterans.

CONNECTICUT-General Dentistry
Yale-New Haven Hospital, an affiliate of Yale University School of Medicine, invites applications and nominations for a full-time, clinical-track faculty position as the Chief of Dentistry and the Director of the General Practice Residency (GPR). In this position, the person will also supervise the Program Director of the Pediatric Residency Program. This 944 bed Academic Medical Center is one of the most sought after residency programs in the Northeast region. As Director of the General Practice Residency Program, the responsibilities include clinical and didactic teaching in all facets of dentistry. Required: Eligible applicants must possess either a D.D.S. or D.M.D. degree as recognized by the ADA Commission on Dental Accreditation. Candidates should have either completed an accredited GPR Program or AEGD Program with hospital training, and be licensed or eligible for licensure to practice in the state of Connecticut. Previous experience in dental education (including curriculum design), hospital-based clinical practice and/or GPR administration. Evidence of leadership ability consistent with the mission of Yale-New Haven Hospital in education, research, patient care and service. Additional responsibilities include overseeing the clinical, administrative and attending faculty to ensure that the operations of the department meet all standards mandated by the American Dental Association, the Joint Commission on Accreditation of Hospital Organizations and other external agencies. Preferred: Candidates with an advanced degree (M.S., M.P.H., Ph.D., etc.), substantial research (basic or clinical), publications and extramural funding. Review of applicants will begin immediately and continue until the position is filled. Qualified applicants should send a letter of intent, curriculum vitae, a list of teaching experiences, and have three reference letters forwarded to Sue Fitzsimons, PhD, Senior Vice President of Patient Services, Yale-New Haven Hospital, 20 York St., New Haven, CT 06510. Yale is an equal opportunity/affirmative action employer. Minority and female applicants are encouraged to apply.

ILLINOIS-Dental Hygiene
Harper College is searching for a candidate with the following qualifications:
* Bachelor's in dental hygiene, health related discipline, higher education or coursework in progress in Master's program
* Master's in health related discipline or higher education preferred
* 3+ years of clinical dental hygiene practice within last seven years
* 2+ years teaching experience in clinical, didactic or laboratory dental hygiene courses
* Must be eligible for or licensed to practice as a dental hygienist in Illinois
* Illinois Certification in Local Anesthetic Administration (or approved equivalent per Illinois Board of Dentistry)
https://jobs.harpercollege.edu/EOE.

ILLINOIS-Restorative Dentistry
Southern Illinois University is seeking applications for a full-time, tenure or clinical-track faculty position in the Department of Restorative Dentistry. This position will be available July 2008. Responsibilities...
include didactic, preclinical, and clinical teaching in operative dentistry at the predoctoral level, with some teaching at advanced levels and service to the university. For tenure-track appointments, independent research and scholarly activities are also expected. Applicants must have a D.D.S./D.M.D. degree from an accredited U.S. or Canadian dental school, and either possess or be eligible for a dental license in the State of Illinois. Candidates should have clinical expertise or advanced training in operative dentistry. Prior experience in dental education or private practice is highly desirable. The department is responsible for the disciplines of operative dentistry, fixed and removable prosthodontics, oral morphology and occlusion, and dental materials. Excellence in teaching is integral to the mission of Southern Illinois University and the School of Dental Medicine. Salary and rank are commensurate with qualifications and experience. Opportunity for extramural private practice is available. Review of applications will begin immediately and continue until the position is filled. Submit a letter of intent, curriculum vitae, and three references to Dr. Ann M. Boyle, Dean, Southern Illinois University School of Dental Medicine, 2800 College Avenue, Alton, IL 62002. SIU-SDM is an EEO/AA employer. Women and minorities are encouraged to apply. SIUE is a state university. Benefits under state sponsored plans will not be available to holders of F-1 or J-1 visas. For further information, contact Dr. Mark Betcher, Chair Search Committee, at mbetcher@siue.edu.

IOWA-Pediatric Dentistry
The University of Iowa’s College of Dentistry is presently conducting a search for a full-time clinical or tenure-track faculty member to serve as Program Director for Advanced Training in Pediatric Dentistry. Major responsibilities include: clinical and didactic instruction at predoctoral and postdoctoral levels, and participation in the department’s intramural faculty practice plan. Additional tenure-track responsibilities will include research/scholarly activity. The position is available immediately; screening begins immediately. Applicants must have: D.D.S./D.M.D. from an ADA-accredited institution or foreign equivalent, completion of ADA-accredited advanced training program in pediatric dentistry, board certification by the American Board of Pediatric Dentistry, record of effective teaching, and demonstrated experience working effectively in a diverse environment. Desirable qualifications include: experience in clinical outreach programs for underserved children, sedation, hospital-based programs and clinical practice. Academic rank, track and salary will be commensurate with qualifications and experience. Applicants should submit CV and three names of references to: Dr. Rebecca Steytton, Search Chair, Department of Pediatric Dentistry, 201 Dental Science South, Iowa City, Iowa 52242-1001. The University of Iowa is an affirmative action and equal opportunity employer; women and minorities are encouraged to apply.

LOUISIANA-Comprehensive Dentistry & Biomaterials
Louisiana State University Health Science Center (LSUHSC) School of Dentistry in New Orleans is seeking applicants for a full-time position as assistant/associate professor for a tenure-track position. Applicants should have a D.D.S./D.M.D. degree and advanced training in operative dentistry. Licensure or eligibility for licensure in Louisiana is required. The successful candidate will support the department’s increasing scope of oral health research at the Health Science Center. The applicant must have a record of biomaterials research. Responsibilities of the position include teaching clinical and preclinical operative dentistry. Salary is commensurate with experience and credentials. Intramural practice opportunity is available and encouraged. Send CV and three letters of recommendation to Dr. Robert S. Sergent, Department of Comprehensive Dentistry and Biomaterials, LSUHSC School of Dentistry, 1100 Florida Avenue, Box 137, New Orleans, LA 70119 (rsargent@lsuhsc.edu). LSUHSC is an EEO/AA employer.

MARYLAND-Dental Hygiene
The Division of Dental Hygiene, University of Maryland, Baltimore, is seeking a full-time, 12-month faculty member. Responsibilities: didactic, preclinical and clinical teaching, advising, committee assignments, research and service. Requirements: graduation from an accredited dental hygiene program, master’s degree in dental hygiene or related field, eligibility for MD licensure, clinical practice experience, a minimum of 2 years teaching experience, computer literacy, and ability to provide patient treatment as needed. Documented excellence in teaching and


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in communication/interpersonal skills is necessary. Opportunities exist for entry into tenure track and for intramural practice. Position begins August 1, 2008. Academic rank is approved through standard processes of the UMB Dental School. UMB is an AA/EEO/ADA employer and is committed to the principle of diversity. Applications should be received by June 30, 2008. Send letter of interest, curriculum vitae, and names of three references to Jacquelyn L. Fried, R.D.H., M.S., Associate Professor and Director, Division of Dental Hygiene, University of Maryland Dental School, Room 1202, 650 W. Baltimore St., Baltimore, MD 21201 or email jfried@umaryland.edu.

MARYLAND-Endodontics, Prosthodontics, and Operative Dentistry
The Department of Endodontics, Prosthodontics and Operative Dentistry, University of Maryland, Baltimore is seeking candidates for one 40% (2 days) faculty position at the assistant professor rank. Responsibilities include clinical and simulation teaching in the areas of operative dentistry, dental anatomy and occlusion primarily at the predoctoral level. Requirements for the positions include a D.D.S./D.M.D. degree the candidate will be required to obtain a Maryland dental license. Preference will be given to candidates with prior teaching experience in preclinical simulation in operative dentistry, dental anatomy and occlusion. Salary and academic rank will be commensurate with qualifications and experience. The position will be available until filled. However, for best consideration qualified applicants should send a letter of interest, curriculum vitae and names and addresses of three references to Dr. Howard E. Strassler, Chair, Search Committee, Department of Endodontics, Prosthodontics and Operative Dentistry, Baltimore College of Dental Surgery, Dental School, University of Maryland, Baltimore, 650 West Baltimore Street, Room 5253, Baltimore, MD 21201-1586 by June 1, 2008. The University of Maryland Baltimore is an AA/EEO/ADA employer and has a strong commitment to the principle of diversity in all areas.

MARYLAND-Pediatric Dentistry
The Baltimore College of Dental Surgery at the University of Maryland is seeking applications for full-time faculty members at either the Assistant or Associate Professor level in the Division of Pediatric Dentistry. Applicants must possess a D.D.S./D.M.D. or equivalent and be a graduate from an ADA-approved advanced education program in Pediatric Dentistry. Candidates must be eligible for either a full or teaching license to practice dentistry in the State of Maryland. Strong consideration will be given to Board Certified candidates or those actively seeking board certification. Candidates must have a strong background in providing care in both clinic and operating room settings and previous research experience is desirable. The University of Maryland, Baltimore is an AA/EEO/ADA employer and has a strong commitment to the principles of diversity. Interested parties should submit their current curriculum vitae, and names and addresses of three professional references to Dr. Norman Tinanoff, Department of Health Promotion and Policy, University of Maryland Dental School, Room 2221, 650 West Baltimore Street, Baltimore, MD 21201 or via email at ntainanoff@umaryland.edu. The search will remain open until July 1, 2008 or until candidates are selected.

MICHIGAN-Academic Administration
The University of Detroit Mercy School of Dentistry invites applications and nominations for the position of Assistant/Associate Dean for Academic Administration. This position has overall responsibility for the direction and oversight of the predoctoral, dental hygiene, and postdoctoral programs and in implementation of new programs, and academic policies and implementation of the curriculum in cooperation with the faculty. The successful candidate will also be responsible for monitoring student progress, coordinating activities of student evaluation and performance, and the oversight of the curriculum and educational mission of the school while assuring compliance with applicable accreditation standards. Qualified candidates must have significant experience in dental education consistent with a senior faculty appointment and demonstrate an in-depth understanding of the contemporary issues in dental education including knowledge of a competency-based curriculum, computer assisted instruction, and active learning. Preference will be given to candidates with experience and/or educational qualifications in higher education academic administration. The candidate should also possess excellent organizational, interpersonal, communication, and managerial skills as well as evidence of demonstrated leadership skills. This position will...
applicants should send a letter of interest, curriculum vita, and the names, addresses and telephone numbers of three references to: Office of the Dean, University of Detroit Mercy School of Dentistry, 2700 Martin Luther King Jr. Boulevard, Detroit, MI 48208. Review of applications will begin immediately and continue until the position is filled.

NEVADA-Academic Affairs
The School of Dental Medicine at the University of Nevada, Las Vegas invites applications for Associate Dean of Academic Affairs. Position to begin Summer 2008. For a position description and application details, please visit http://jobs.unlv.edu or call 702-895-2894 for recruitment assistance. EEO/AA employer.

NEVADA-Clinical Sciences
The School of Dental Medicine at the University of Nevada, Las Vegas invites applications for Chair, Clinical Sciences. Position to begin July 1, 2008. For a position description and application details, please visit http://jobs.unlv.edu or call 702-895-2894 for recruitment assistance. EEO/AA employer.

NEW JERSEY-Group Practice Administrator
The UMDNJ - New Jersey Dental School, nationally recognized for excellence in teaching, research, health care, and community service invites application for a full-time Group Practice Administrator position for the Post Graduate Programs of the UMDNJ-New Jersey Dental School. Responsibilities include care and management of patients in post graduate programs and Implant Center, review of the progression of patient treatment, evaluate student’s performance in patient care, authorize all interdisciplinary patient referrals. Applicants must have a D.D.S./D.M.D. degree from an accredited U.S. dental school with preference being given to candidates with previous teaching experience. Salary and academic rank commensurate with experience and qualifications. Benefits include a highly competitive salary, financial incentive program to supplement your salary, loan redemption program may be available, excellent pension plan and retirement benefits, outstanding medical, dental and prescription package, vacation, sick days, and paid holidays, and availability of excellent continuing education courses. The University of Medicine and Dentistry of New Jersey is an equal opportunity employer. Women and minorities are encouraged to apply. Review of applications will begin immediately and continue until the position is filled. Applicants should submit curriculum vitae, and the names and addresses of three references to UMDNJ- New Jersey Dental School, Dr. Michael Conte, Associate Dean, Office for Clinical Affairs, Fifty 12th Avenue, Room D-995, Newark, NJ 07103-2400.

NEW MEXICO-Dental Hygiene
Doña Ana Community College located in Las Cruces, New Mexico is currently seeking a Dental Hygiene Faculty Second Year Dental Clinic Coordinator, Instructor, or Assistant Professor, tenure-track Requisition #2008033580. Minimum Qualification: Graduate of an accredited dental hygiene program, bachelor’s degree in dental hygiene or related field, three years clinical experience, eligibility for dental hygiene license in New Mexico including local anesthesia certification. Postmark deadline to apply is June 16, 2008.

All applicants will receive a complete job description which can be viewed at http://dbcc.nmsu.edu/general/employment.

NEW YORK-Dental Dean
Stony Brook University (SBU) invites nominations and applications for the position of Dean, School of Dental Medicine. Founded in 1957, SBU is a comprehensive research university located approximately 50 miles from New York City on Long Island’s beautiful North Shore. A member of the prestigious Association of American Universities, SBU has six colleges and schools plus a health sciences center which includes five schools and a tertiary care hospital. The School of Dental Medicine, a component of the Health Sciences Center at Stony Brook, offers the Doctor of Dental Surgery Degree in addition to postdoctoral education in endodontics, orthodontics and dentofacial orthopedics, pediatric dentistry, periodontics, advanced education programs in general dentistry and dental anesthesiology, and a fellowship in the
WASHINGTON-Dental Hygiene
Assistant/Associate Professor: Eastern Washington University, Department of Dental Hygiene invites applications for a full-time, tenure-track assistant/associate professor position beginning September, 2008. Responsibilities include: Teach one or two courses in our undergraduate B.S. dental hygiene program each quarter; Teach one or two on-line graduate courses each quarter; Develop and sustain an active research program in an area of interest within the dental professions; Advise graduate students; Serve as chair or member of thesis committees; Become professionally engaged with the local dental community as well as the dental community on the West side of the state, including the University of Washington School of Dentistry. Qualifications: Applicants must have a master's degree in dental hygiene or an acceptable related field. A doctoral degree is preferred. The successful candidate must be committed to teaching a diverse student population including in-state, out-of-state, and international on-line students. Also necessary are Washington State dental hygiene licensure or eligibility for licensure within one year of hire to be reappointed to the third year, and a minimum of two years of full-time or equivalent clinical experience within the past five years. Teaching experience, demonstrated communication and leadership skills, and an ability to promote and support cultural competency required. Prior experience chairing thesis committees and supervision of graduate research, as well as previous web-based curriculum experience and on-line curriculum development preferred. Opportunity for extramural private practice is available. The successful applicant will develop and maintain an active research program in an area of interest within the dental professions, seek external funding, and will mentor master's students in research. Send a letter of application, curriculum vitae, three letters of reference to the Search Committee Chair, Lisa Blich, 310 N. Riverpoint Blvd, Box E, Spokane, WA 99202. Review of applications will begin immediately and continue until the position is filled. Eastern Washington University is an equal opportunity/affirmative action employer, and applications from members of historically underrepresented groups are especially encouraged. The successful candidate will be required to pass a background check, and show proof of eligibility to work in the U.S. pursuant to U.S. immigration laws.

CANADA-Restorative Dentistry
The University of Western Ontario Schulich School of Medicine and Dentistry in London, Ontario seeks applications for appointments at the rank of Assistant Professor in the Division of Restorative Dentistry effective July 1, 2008 or as soon as possible thereafter. For exceptional applicants at a higher level, the candidate may be considered for a possible tenured appointment and administrative responsibilities. Two positions for probationary (tenure-track) or limited term appointment in prosthodontics; one position for a one year renewable limited term appointment in prosthodontics; one position for probationary (tenure-track) or limited term appointment in endodontics. Candidates must possess a D.D.S./D.M.D. degree, or equivalent; be fellowship or board-eligible in prosthodontics; have postgraduate specialist training in the area for which they are applying; and be eligible for full or academic licensure within the Province of Ontario. Teaching and some research experience preferred. The successful candidates will have a commitment to and demonstrated aptitude for teaching, and will be expected to teach at the didactic, preclinical, and clinical levels and do some administration with the possibility of becoming a course director. A consulting privilege of one day/week is available and the opportunity for intramural practice exists. Cross-discipline clinical teaching within all divisions of the dental programs is expected. Consideration of applicants will include an assessment of previous performance, qualifications, including qualifications which go beyond the requirements for the position and experience. A probationary appointment may be offered to a candidate that has a demonstrated outstanding record of research and publication in dentistry and will be expected to maintain an ongoing vigorous research program. It is expected that the candidate will participate in research projects resulting in publications in peer reviewed journals. The successful candidate will also serve in community, professional, or administrative roles. The position will entail active collaboration with colleagues. Applicants should send a cover letter, curriculum vitae, reprints of any publications, and names of three references to Dr. H.S. Sandhu, Director of Dentistry, Schulich School of Medicine and Dentistry, The University of Western Ontario, London, ON, Canada, N6A 5C1 or electronically to dentistry@schulich.uwo.ca Applications will be accepted until the positions are filled. Positions are subject to budget alterations.
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HEADLINES

May Classified Advertising

CALIFORNIA ORAL SURGERY

The University of California, San Francisco (UCSF), Department of Oral and Maxillofacial Surgery, invites applications for a tenured-track faculty position at the Assistant or Associate level in the Division of Oral Medicine, Pathology, and Radiology. The successful candidate will be expected to develop and sustain a program of externally funded, translational research, preferably laboratory-based and have a demonstrated record of securing extramural research funding. The successful candidate will be expected to provide patient care in the Oral Medicine clinic and to participate in the education of students in the schools of Dentistry and Medicine. The applicant must have completed advanced training in oral medicine and/or oral and maxillofacial pathology, be certified or be eligible for certification by the American Board of Oral Medicine and/or the American Board of Oral and Maxillofacial Pathology, and be eligible for licensure in the State of California by examination, credentials, or by special permit. Salary will be commensurate with experience and credentials. A competitive start-up package is available and includes salary support, research funds and dedicated research space to initiate and grow a leading and successful research program. UCSF and its medical center are widely recognized for their academic and healthcare institutions. UCSF comprises the schools of Dentistry, Medicine, Nursing and Pharmacy, and a number of hospitals and outpatient clinics. The Division of Oral Medicine, Pathology, and Radiology is a successful clinical, scientific, and educational enterprise with a record of innovation and discovery. The Division has a large number of extramural research funding with a successful research programs in several focused areas including oral and neck oncology, squamous cell carcinoma, and the oral manifestations of HIV infection and AIDS. Financially successful specialty clinics including the Oral Medicine Clinic and the Oral Pathology Diagnostic Service deliver clinical care to a high volume of complex and challenging patients and provides an excellent foundation for education and scientific discovery. Close academic, research and clinical links exist with the UCSF School of Medicine, the Helen Diller Family Comprehensive Cancer Center, the AIDS Research Institute, Oral and Maxillofacial Surgery and Otolaryngology-Head & Neck Surgery as well as other units. UCSF seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to the mission of diversity and excellence. This position is available immediately but will remain open until filled.

Applications and the names of 3 references should be sent to Richard C.K. Jordan, D.D.S., Ph.D., FRCP, Professor and Chair, Division of Oral Medicine, Pathology and Radiology, University of California, San Francisco, Room S-512, 513 Parnassus Avenue, San Francisco, CA 94143-0424. Phone: 415-476-8233, email: richard.jordan@ucsf.edu. UCSF is an affirmative action/equal opportunity employer. The University undertakes affirmative action to assure equal employment opportunities for underrepresented minorities and women, for persons with disabilities and for covered veterans.

CONNECTICUT General Dentistry

Yale New Haven Hospital, an affiliate of Yale University School of Medicine, invites applications and nominations for a full-time, clinical-track faculty position as the Chief of Dentistry and the Director of the


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General Practice Residency (GPR). In this position, the person will also supervise the Program Director of the General Practice Residency Program. The AADR/ADEA Academic Dental Careers Program is one of the most sought after residency programs in the Northeast region. As Director of the General Practice Residency Program, the candidate will be responsible for all clinical and educational activities associated with the program.

Candidates should have either completed an accredited GPR Program or ADEA/AACOM accredited postgraduate program with hospital training, and be licensed or eligible for licensure to practice in the state of Connecticut. Previous experience in general dentistry, including one year of general dentistry residency training, is preferred. In addition, the position requires a substantial commitment to research and teaching.

Preferred Candidates with advanced degree (M.S., M.D., Ph.D. etc.), substantial research (basic or clinical), publications and extramural funding. Review of applications will begin immediately and continue until the position is filled. Qualified applicants should submit a letter of intent, curriculum vitae, a list of teaching experiences, and have three letters of reference forwarded to Sue Fettig-Baum, Ph.D., Senior Vice President of Patient Services, Yale-New Haven Hospital, 20 York St, New Haven, CT 06510. Yale is an equal opportunity/affirmative action employer. Minority and female applicants are encouraged to apply.

GEORGIA-Oral Biology
The Department of Oral Biology at the Medical College of Georgia School of Dentistry is seeking applicants for a full-time, tenure-track position in the division of pharmacology. Applicants must have a Ph.D. in pharmacology and a D.M.D. or a pharmacy degree. This position is highly desirable. Responsibilities include teaching of pharmacology at the predoctoral and postdoctoral levels. The individual is expected to develop a competitive, extramurally funded research program that would preferably complement those of the existing faculty (e.g., renal and cardiovascular). Salary and rank to commensurate with experience. ACHI/55507. AVEEPO/equal access. Application Deadline: until filled. Please send application letter, current curriculum vitae and contact information of three references to Dr. M. Mozzafiato at mmozzafiato@mail.mcg.edu

ILLINOIS-Dental Hygiene
Teach didactic, clinical and laboratory courses including: dental hygiene, dental materials, dental hygiene, histology and embryology, community oral health, periodontology and dental assisting and dental hygiene. Minimum of a baccalaureate degree and five years of clinical experience required. Coursework is preferred: Dental Hygiene license required and current Certified Dental Assistant certification through the DANB. For complete job description visit the website at www.illinois.edu. Apply to Lewis and Clark Community College, Human Resources, Erickson Hall, Room 107, 5000 Godfrey Rd., Godfrey, IL 62035 or fax 618-468-5105. EOE/AA

INDIANA-Oral Biology
A full-time, tenure-track position in oral biology is available with a preference for research in endodontics or periodontics. Applicants must have a Ph.D. and be able to develop a research program. Prior experience in endodontics or periodontics is preferred. Candidates should demonstrate a high level of creativity and productivity, and be able to participate in PBL tutorial groups. The School of Dentistry is committed to the integration of oral biology into PBL cases and to teach in the school's team-taught biomedical science courses for dental students and appropriate

http://info.adea.org/BDE/index.aspx?id=924
rank, track, and salary will be commensurate with qualifications and experience. Applicants should submit CV and three names of reference to Dr. Steven Vincent, Professor and Head, Oral Pathology, Radiology and Medicine, School of Medicine, University of Iowa, 550 E. Clinton St, Iowa City, IA 52242-1001. The University of Iowa is an affirmative action/equal opportunity employer, minority, women, and veterans are encouraged to apply.

MARYLAND Dental Hygiene
The Division of Dental Hygiene, University of Maryland, Baltimore, is seeking a full-time, 12-month faculty member. Responsibilities include didactic, pre-clinical and clinical teaching, advising, committee assignments, research and service. Requirements include graduation from an accredited dental hygiene program, master's degree in dental hygiene or related field, eligibility for MD licensure, clinical practice experience, a minimum of 2 years teaching experience, computer literacy, and ability to provide patient treatment as needed. Documentation of excellence in teaching and communication/interpersonal skills is necessary. Opportunities exist for entry into tenure track and for intramural practice. Position begins August 1, 2008. Academic rank is approved through standard processes of the UMB Dental School. UMB is an AA/EEO/ADA employer and is committed to the principle of diversity. Applications should be received by June 30, 2008. Send letter of interest, curriculum vitae, and names of three references to Jacquelyn L. Freed, R.D.H., M.S. Associate Professor and Director, Division of Dental Hygiene, University of Maryland Dental School, Room 1202, 650 W. Baltimore St., Baltimore, MD 21201 or email jfreed@umaryland.edu

MINNESOTA-Primary Dental Care
The University of Minnesota School of Dentistry invites applications and nominations for the position of Chair of the Department of Primary Dental Care. The department includes the areas of community-based education, comprehensive general dentistry and auxiliary utilization, dental hygiene, dental public health, geriatrics, and professional roles in oral health care. As one of seven schools in an outstanding academic health center, the School of Dentistry consistently attracts high quality students and has achieved an international reputation for research, education, patient care, and service. The department seeks to advance the contemporary practice of oral health care via primary care models developed in conjunction with other School of Dentistry departments and programs. The successful candidate should have the vision, leadership skills, and energy to pursue this goal through approaches that are collaborative, patient- and student-centered, and that demonstrate appreciation of population-based oral health issues. Excellence in both communication skills and administrative experience are expected. Qualifications include a D.M.D./D.D.S., Ph.D., or equivalent degree, with a broad scope of academic and clinical knowledge. Candidates must be eligible for a tenured appointment at the rank of Associate or Full Professor, which requires an ongoing record of exceptional teaching, research, scholarship, and service. The School of Dentistry offers highly competitive compensation packages with academic rank and salary commensurate with qualifications and experience. Opportunities for intramural practice are available. Applications will only be accepted electronically for this position. To view the job posting and apply for this position, please visit the School of Dentistry website at www.dentistry.umn.edu where you will find a link listed under “Featured Employment Opportunities.” Please note that a curriculum vitae and letter of interest should be attached to the online application. Applicants will be asked to provide five references at a later date. Questions may be directed to Ms. Jan Casey. University of Minnesota School of Dentistry, 9-436 MOOST, 515 Delaware St SE, Minneapolis, MN, 55455, or casey067@umn.edu. Review of applicants will begin immediately and continue until the position is filled. The University of Minnesota is an equal opportunity educator and employer.

MISSOURI Oral and Maxillofacial Radiology
UMKC is seeking applications for a full-time faculty in the Section of Oral and Maxillofacial Radiology of the Department of Oral Pathology, Radiology and Medicine. Qualified candidates should be board-certified or eligible in oral and maxillofacial radiology and have a commitment to
teaching, clinical dentistry, and service. Specific responsibilities include
pre and postdoctoral dental and dental hygiene education and clinical
teaching. Academic rank, tenure status, and salary will be
commensurate with qualifications and experience. Qualified candidates
may be eligible to participate in faculty practice one day per week. For
qualified candidates with U.S. training and board certification in oral
and maxillofacial pathology an international faculty D.D.S. program
is available after an initial period of service. Interviews of qualified
candidates will begin immediately and continue until the position is
filled. Applicants should send a letter of interest, a CV, names and
contact information for three references electronically to Dr. Pamela
Overman, overmanp@umkc.edu. The University of Missouri-Kansas
City (an EEO AA employer) is part of the University of Missouri, with
excellent fringe benefits package. www.umkc.edu. UMKC recognizes
that a diverse faculty, staff, and student body enriches the educational
experiences of the entire campus and greater community. To this end,
UMKC is committed to recruiting and retaining faculty students and
staff who will further enrich our campus diversity and making every
tempt to support their academic, professional and personal success.
Women, minorities, veterans, and individuals with disabilities are
couraged to apply. Applicants who are not U.S. citizens must state
their current visa and residency status. All final candidates will be
required to successfully pass a Criminal Background Check prior to
beginning employment.

NEVADA - Biomedical Sciences
The School of Dental Medicine at the University of Nevada, Las Vegas
invites applications for a full-time, 12-month, non-tenure track faculty
position to start Fall 2008. For a position description and application
details, please visit http://jobs.unlv.edu or call 702-895-2894 for
recruitment assistance. EEO/AA employer.

NEVADA - Biomedical Sciences
The School of Dental Medicine at the University of Nevada, Las Vegas
invites applications for a full-time, 12-month, tenure/tenure track
faculty position to start Fall 2008. For a position description and
application details, please visit http://jobs.unlv.edu or call 702-895-
2894 for recruitment assistance. EEO/AA employer.

TENNESSEE - Community Oral Health
The University of Tennessee College of Dentistry invites applications
for a full-time, tenure-track position as Director of the Division of
Community Oral Health in the Department of Pediatric Dentistry and
Community Oral Health. The division is responsible for instruction in
dental public health, behavioral science, literature evaluation, practice
management, dental ethics and dental jurisprudence. Primary
responsibilities include providing classroom instruction for pre- and
postdoctoral students, scholarly and service activities, and the
development, implementation and coordination of planned community-
based educational and clinical experiences. The position will become
available July 1, 2008. Applicants must have a D.D.S./D.M.D. degree
from an ADA-accredited dental school, have a M.P.H./M.S.P.H. degree
or equivalent experience, and be eligible for dental licensure in the
State of Tennessee. The ideal candidate will have clinical practice and
teaching experience. Demonstrated communication and leadership
skills are required. Interested candidates should send a letter of
application, curriculum vitae and three professional references to Dr.
Sanford J. Fenton, Chair, Department of Pediatric Dentistry and
Community Oral Health, The University of Tennessee College of
Dentistry, 875 Union Avenue, Memphis, TN 38163, email
sfenton@utmtn.edu. The University of Tennessee is an
EO/AA/Title VI/Title IX/Section 504/ADA/DEA institution in the
provision of its education and employment programs and services.

TENNESSEE - Dental Hygiene
East Tennessee State University's Dental Hygiene Program is
accepting applications for a full-time, tenured-track position at the
Assistant/Associate Professor level for a clinical coordinator beginning
August 2008. The responsibilities for the position include clinical and
didactic instruction, student advisement and counseling, participation in
committee assignments, research and scholarly activities.
Opportunities exist for teaching in the entry level B S D H program, B S D H online completion program, and a master's degree in allied health. Applicants should possess a master's degree in dental hygiene or a related field. Dental hygiene practice, previous teaching experience, and a doctorate degree are desirable. Eligibility for Tennessee licensure is required. Rank and salary for the position will commence with experience and qualifications. Review of applications will begin immediately and continue until the position is filled. Interested candidates should forward a letter of interest, curriculum vitae, and a list of three references to Debbie Dotson, Assistant Professor, Dental Hygiene Program, Box 70690, East Tennessee State University, Johnson City, TN 37614. East Tennessee State University is an equal opportunity/affirmative action employer.

TENNESSEE-Dental Hygiene

East Tennessee State University's Dental Hygiene Program is accepting applications for a full-time tenure-track position at the Assistant/Associate Professor level for a clinical coordinator. The responsibilities for the position include clinical and didactic instruction, student advisement, and counseling participation in committee assignments, research and scholarly activities. The position is available August 2008. Opportunities exist for teaching in the entry level B S D H program, B S D H online completion program, and a master's degree in allied health. Applicants should possess a master's degree in dental hygiene or a related field. Dental hygiene practice, previous teaching experience, and a doctorate degree are desirable. Eligibility for Tennessee licensure is required. Rank and salary for the position will commence with experience and qualifications. Review of applications will begin immediately and continue until the position is filled. Interested candidates should forward a letter of interest, curriculum vitae, and a list of three references to Debbie Dotson, Assistant Professor, Dental Hygiene Program, Box 70690, East Tennessee State University, Johnson City, TN 37614. East Tennessee State University is an equal opportunity/affirmative action employer.

TEXAS-Dental Hygiene

Full-time, 10-month tenure-track or clinical-track position in the dental hygiene program. Rank and salary commensurate with education and experience. Responsibilities include serving as program director, didactic, pre-clinical or clinical teaching of undergraduate students, participation in committee assignments, and scholarly activity. Applicants must have a master's degree (doctoral degree preferred) and must hold or be eligible for Texas dental hygiene licensure. Clinical experience and professional practice experience is required, with a minimum of five years teaching and/or administrative experience at the college level preferred. Texas Woman's University is an EEO/AA employer. Interested persons should submit a letter of application, curriculum vitae, and contact information electronically to facujobs@twu.edu. Email header or subject line must include job title - Dental Hygiene - THSDHY01.

TEXAS-Restorative Dentistry and Biomaterials

The University of Texas Dental Branch at Houston seeks applicants for a full-time tenure or clinical educator track position in the Department of Restorative Dentistry and Biomaterials at the Assistant or Associate Professor level. Applicants must have a D.D.S./D.M.D. degree with prior teaching and/or private practice experience and be eligible for dental licensure in the state of Texas. Responsibilities include preclinical and clinical teaching to undergraduate dental students, research and service. Preference will be given to applicants with demonstrated interest/experience in dental anatomy, operative dentistry, esthetic dentistry and dental materials science. The position is available July 1, 2008. Academic rank and salary are commensurate with qualifications and experience. The dental branch is located in the heart of the Texas Medical Center which offers significant resources and important opportunities for collaboration and advanced training. The dental branch is one of six schools in the most comprehensive health science center in Texas. The University of Texas Health Science Center at Houston is an equal opportunity employer and a smoke-free environment. Women and minorities are encouraged to apply. This is a security sensitive position and thereby subject to Texas Education Code § 51.215. A background check will be
March 2008
Vol 41, Issue 3

HEADLINES

Classified Advertising for March

CALIFORNIA-Academic Affairs
The University of the Pacific Arthur A. Dugoni School of Dentistry invites nominations and applications for the position of Associate Dean for Academic Affairs. The School of Dentistry is located in San Francisco, California, and is distinguished by leadership, innovation, a humanistic model of education, clinical excellence, a three-year curriculum, alumni allegiance, and a family-like culture. The Associate Dean for Academic Affairs is responsible for students, faculty, and curriculum and reports directly to the Dean. Major responsibilities include promoting curriculum innovation, supporting and promoting faculty development, managing educational programs with department chairs, conducting and publishing research, serving on standing committees related to students, faculty, curriculum, and representing the dental school to extramural organizations. The successful candidate will have a D.D.S./D.M.D. degree and/or Ph.D. or equivalent terminal degree, strong analytical and communication skills, a record of research and publication, and the willingness to function in a collaborative environment. Strong evidence of administrative, teaching, and research experience is expected. Compensation will be commensurate with credentials and experience. Please submit a letter of intent, curriculum vitae, and a list of three references to Dr. William Lundergan, University of the Pacific Arthur A. Dugoni School of Dentistry, 2155 Webster Street, San Francisco, CA 94115-2333 or submit an email attachment to Dr. Lundergan (wlunderg@pacific.edu). Applications received by May 1 will be considered. The University of the Pacific is an equal opportunity/affirmative action employer.

CALIFORNIA-Community Partnerships and Access to Care
Applications and nominations are invited for the position of Assistant/Associate Dean for Community Partnerships and Access to Care at Western University of Health Sciences College of Dental Medicine (CDM) Western University of Health Sciences, founded in 1977 in Pomona, California, is a thriving center for health care. The university’s core values of humanism, caring and scientific and technical competence have propelled the university’s unprecedented growth. Accepting its inaugural class in 2009, the new Western University of Health Sciences College of Dental Medicine’s vision is to become a premier center for integrative educational innovation, basic and translational research, and high quality, patient-centered, interdisciplin ary health care, all conducted in a setting that utilizes advanced technology and promotes individual dignity and potential for personal and professional growth. The Assistant/Associate Dean for Community Partnerships and Access to Care will be responsible for developing community partnerships that provide an enriched clinical educational experience in oral health care. They will have the oversight responsibility for the community-based clinic network that is an integral component of the student’s clinical education experience, and the community linkages that support the educational and service mission in providing access to oral health care for underserved populations. Responsibilities include site and preceptor recruitment, mutually beneficial affiliation agreements, curriculum, QA, student and site evaluation. For more details see
East and Midwest. The School of Dentistry is one of 14 colleges in a major, land-grant research university and is part of a comprehensive health sciences center which includes schools of medicine, nursing, pharmacy, allied health, the Mary Babb Randolph Cancer Center, and West Virginia University Hospitals. The Health Sciences Center campus is also the home for the new Blanchette Rockefeller Neuroscience Institute and a new library/learning resource center. Review of applications will begin immediately and will continue until the position is filled by a qualified candidate. Salary and academic rank will be commensurate with qualifications and experience. Interested individuals should submit a current curriculum vitae and a letter of inquiry with the names, addresses, and phone numbers of three references to Dr. C. Russell Jackson, Chair, Search Committee, c/o Ms. Martha Sturms, West Virginia University School of Dentistry, P.O. Box 9400, Morgantown, WV 26506-9400. West Virginia University is an affirmative action/equal opportunity employer.

WISCONSIN-Restorative Dentistry
Marquette University School of Dentistry invites applications for a full time, tenure track faculty position for Chair, Department of General Dental Sciences. The chair will be responsible for the disciplines of biomaterials, general dentistry, oral medicine and oral radiology and prosthodontics. This position will have primary responsibilities in the following areas: predoctoral curriculum, postgraduate program in prosthodontics and dental biomaterials, all related faculty and staff matters, resource and budget management and other related administrative areas. A detailed job description is available for review. Must have a demonstrated record of research/scholarly activity. Faculty participates in MUSO’s Faculty Practice. D.D.S./D.M.D. degree or equivalent degree required. In addition, candidates must hold a valid dental license in some state or jurisdiction. Interested individuals should apply electronically to the following website http://careers.marquette.edu/applicants/Central?quickFind=51328 Marquette University is an equal opportunity, affirmative action employer.

WYOMING-Dental Hygiene
Classroom and clinical instruction. Bachelor’s degree with experience required, master’s preferred. Current Wyoming dental hygiene licensure or eligibility, including anesthesia permit. Excellent benefits include health, dental, and life insurance; employer paid retirement plan (11.25% in addition to salary); paid leave plans; employee and family tuition waiver. Online application and information at https://jobs.sheridan.edu, or contact Sheridan College HR office at 874-6446 ext. 2810. EOE.

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3/14/2008
FOR THE OPERATORY (continued)

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Carl Zeiss Meditec

Imaging, intraoral
SurgiTel/General Scientific Corp

DIRECTOR OF DENTAL HYGIENE

The University of Minnesota School of Dentistry invites applications and nominations for the Director of the Division of Dental Hygiene. The University of Minnesota is located in the beautiful Twin Cities of Minneapolis and St. Paul, built around the banks of the Mississippi River; these cosmopolitan cities are filled with parks, lakes, museums, theaters, and outdoor activities to meet any interest. The School is part of the outstanding Academic Health Center, one of the most comprehensive academic health centers in the country. The University of Minnesota Division of Dental Hygiene offers a predoctoral program. Established in 1919, it has evolved into a program of national distinction. High quality students are attracted to the strong academic and clinical program integrated with the DDS curriculum and clinics.

The successful candidate will have overall responsibility for the leadership and administration of the Bachelor Degree Program in Dental Hygiene and the Bachelor Degree Completion Program. The Division anticipates initiating an MS degree during the 2007-2008 academic year. The Division will work with the Division of Dental Hygiene, various departments in the School of Dentistry, other health professionals in the Academic Health Center, as well as in the area of graduate education to enhance the educational programs and the future careers of dental hygienists. Qualified candidates will possess a dental hygiene degree and an MS degree in dental hygiene or a related discipline, a DMD/DMD degree, eligibility for tenure at the University of Minnesota School of Dentistry, and a minimum of five years experience in teaching dental hygiene to dental hygiene students, with clinical practice, research, and administrative experience required. The applicant must be eligible for registration in the State of Minnesota. Salary and academic rank will be commensurate with qualifications and experience. Review of applications will begin September 15, 2007. Position is open until filled.

All applicants must file an electronic application on the University's website at http://employment.umn.edu (recruitment #16888) including a letter of interest, curriculum vitae, and two names and contact information of three references.

UNIVERSITY OF MINNESOTA
The University of Minnesota is an Equal Opportunity Educator and Employer.

Circle 13 on card
August 2007
Vol 40, Issue 8

HEADLINES

Classified Advertising for August

ARIZONA—Pediatric Dentistry
A.T. Still University, Arizona School of Dentistry & Oral Health in Mesa, AZ is seeking applications for a full-time, non-tenured track position for the Director of Pediatric Dentistry. Seeking an experienced individual to develop a comprehensive pediatric dentistry program unlike most others in the nation. The director will be responsible for oversight and direction of clinical care in the on-campus Pediatric Dentistry Clinic as well as development of an integrated family dentistry pediatric practice, developing alliances with key external partners, and creating a community-based pediatric dental program to serve as a model for general dentists in meeting the specific pediatric dentistry needs in communities across the nation. Individual must participate in research related to the dental workforce. Applications must include a CV, letter of interest, and three letters of recommendation. Applications are to be submitted to Dr. Michael A. Reiner, Chair, Department of Pediatric Dentistry, A.T. Still University, Arizona School of Dentistry & Oral Health, 5830 E. San Pedro Ave., Suite 400, Mesa, AZ 85204. Please see website for complete job description at http://www.atsu.edu.

NEW JERSEY—Pediatric Dentistry
The University of Medicine and Dentistry of New Jersey (UMDNJ) School of Dental Medicine in Newark, NJ is seeking applications for a full-time, non-tenured track position for the Director of Pediatric Dentistry. The successful candidate will be responsible for oversight and direction of clinical care in the on-campus Pediatric Dentistry Clinic as well as development of an integrated family dentistry pediatric practice, developing alliances with key external partners, and creating a community-based pediatric dental program to serve as a model for general dentists in meeting the specific pediatric dentistry needs in communities across the nation. Individual must participate in research related to the dental workforce. Applications must include a CV, letter of interest, and three letters of recommendation. Applications are to be submitted to Dr. Michael A. Reiner, Chair, Department of Pediatric Dentistry, A.T. Still University, Arizona School of Dentistry & Oral Health, 5830 E. San Pedro Ave., Suite 400, Mesa, AZ 85204. Please see website for complete job description at http://www.atsu.edu.

COLOMBIA—International Student Program
The School of Dentistry International Student Program has an opening for a full-time, clinical-track position at Assistant/Associate Professor level. The International Student Program (ISP) is an accelerated Doctor of Dental Surgery degree program that grants advanced standing to dental graduates of non-accredited institutions. This faculty position will provide clinical instruction at the University of Arizona. The successful candidate must have a valid Arizona dentist license. The ISP Director at the University of Arizona School of Dentistry is responsible for assigning and monitoring patient assignments, and developing the curriculum for the ISP. The position will be available immediately. The search process will begin immediately and will continue until the position is filled. Send a letter of intent and a curriculum vitae to Dr. Monte R. Rehfeld, Chair of Faculty Recruitment & Appointment Committee, Arizona School of Dentistry & Oral Health, 5800 E. San Pedro Ave., Suite 400, Mesa, AZ 85204 or via email to mreihfeld@atsu.edu. The successful candidate must have a valid Arizona dentist license.

Kudos

Around the Dental Education Community

ADA Commission on Change and Innovation (ADACCI) Issues Call for Comments

Call for Submissions for Special Student Issue of the Bulletin of Dental Education

Call for Posters for the 85th ADEA Annual Session and Exhibition

Call for Nominations for ADEA President-elect

CONNECTICUT—Prosthodontics
Full-time Assistant Clinical Professor position available in the

Department of Oral Rehabilitation, Biomaterials and Skeletal Development, Division of Prosthodontics. The Division is responsible for undergraduate and graduate instruction in dental morphokinetics, occlusion, implant materials, fixed and removable prosthodontics, implant prosthodontics, and maxillofacial prosthesis. Position requires a D.D.S./D.M.D. degree and formal training in Prosthodontics from an ADA-accredited program. Ability to practice as a prosthodontist is required. Academic rank and salary commensurate with experience and credentials. Intraoral practice opportunity available. Reciprocal Connecticut dental license available. Send curriculum vitae and three letters of recommendation to Dr. Jacqueline P. Dunbar, Division Chair, Prosthodontics, in the Department of Oral Rehabilitation, Biomaterials and Skeletal Development, University of Connecticut School of Dental Medicine, Farmington, CT 06030-1615. Please apply online at https://jobs.uconn.edu. UCHG is an equal opportunity employer.

ILLINOIS-Restorative Dentistry
The Department of Restorative Dentistry at the University of Illinois at Chicago, under the leadership of Stephen L. Campbell, D.D.S., M.M.Sc., is seeking applications for three full-time faculty positions (non-tenure track) at the Clinical Assistant/Associate Professor levels. Responsibilities include didactic and clinical instruction in all aspects of Prosthodontics and Restorative Dentistry. Opportunities for teaching exist at the Pre-doctoral and Advanced Program level and include implant prosthetics. Qualifications include a D.D.S./D.M.D. degree and advanced training in Prosthodontics (board eligibility desirable, but not required). Candidates should have training and/or experience in research. For fullest consideration, applications should be received by December 1, 2007. Review of applications will begin immediately and continue until the positions are filled. Salary and academic rank commensurate with experience and qualifications. The positions will begin August 16, 2008. Applicants should forward a cover letter, CV, and names of three references to Dr. Kimberly Taylor, UIC College of Dentistry (MC G21), 801 S. Paulina Street, Chicago, IL 60612, or email: ktaylor@uic.edu. Please reference Job Code R04APCL in your cover letter. AAEOE

MINNESOTA-Dental Hygiene
The University of Minnesota School of Dentistry invites applications and nominations for the Director of the Division of Dental Hygiene. The University of Minnesota is a large, comprehensive public research institution located in the Twin Cities of Minneapolis and St. Paul. The Dental Hygiene program is centrally located in the heart of one of the country's most vibrant cities. The University of Minnesota Division of Dental Hygiene offers a premier educational program. Established in 1918, the program is a leader in the nation for its commitment to the health and well-being of the communities served. We seek qualified applicants with leadership experience and the ability to work collaboratively with colleagues within the University and with external entities. The successful candidate will have overall responsibility for the leadership and administration of the School of Dentistry's program in dental hygiene and the Dental Hygiene curriculum, and will be responsible for the development and implementation of new programs and initiatives. The position is a full-time, academic appointment at the rank of Dental Hygiene Professor. Anticipated start date is September 1, 2007. The University of Minnesota is an equal opportunity/affirmative action employer.

NEW YORK-GPR and AEGD Program Directors
The University at Buffalo, State University of New York, School of Dental Medicine, is seeking applications for two positions: GPR Program Director and AEGD Program Director. The University at Buffalo is an equal opportunity/affirmative action employer.

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HEADLINES

ARIZONA—Dental Hygiene

The Dental Hygiene Department in the School of Health Professions at Northern Arizona University (NAU) seeks applications for two full-time tenure-eligible Assistant Professors in Dental Hygiene. These tenure-eligible positions involve clinical and didactic teaching in an innovative, team-oriented baccalaureate program, with a one plus three curriculum. The Dental Hygiene Department at NAU celebrates its 30th anniversary this year and is acknowledged nationwide for its progressive approach to education. It also offers a B.S. completion program for registered hygienists. Kaplan Newsweek called NAU a “hidden treasure,” and an institution that “provides maximum personal attention” to students. The Dental Hygiene Department exemplifies this recognition. Flagstaff (elevation 7,000 feet) is located 140 miles north of Phoenix at the base of the majestic San Francisco Peaks. Northern Arizona University is an 18,000-student institution with its main campus in Flagstaff, a four-season community of about 57,000. NAU’s emphasis on undergraduate education is enhanced by its graduate programs and research as well as distance learning. The successful applicants will hold a dental hygiene license, master’s credentials, and be eligible for licensure as a dental hygienist in Arizona. Web education, dental hygiene teaching experience, doctorate degree, and commitment to diversity is preferred. See www.nau.edu for more information. Salary commensurate with experience. Send resume and letter of intent to Chair of Dental Hygiene Search Committee, NAU Post Box 15065, Flagstaff, AZ 86011-5065. Or email Dental.Hygience@nau.edu. Positions open until filled. Northern Arizona University is an Equal Employment Opportunity/Affirmative Action institution. Minorities, women, persons with disabilities, and veterans are especially encouraged to apply.

CALIFORNIA—Preventive and Restorative Dental Sciences

The University of California, San Francisco School of Dentistry, Department of Preventive and Restorative Dental Sciences, is seeking full-time faculty members in the Health Sciences Clinical Series to support its programs commencing on or before September 1, 2006. The individuals selected must have D.D.S./D.M.D. degrees or the equivalent, a current California dental license or eligibility, and at least three years of clinical dental experience. Clinical and/or didactic teaching experience preferred. The appointment will be in the department's Division of General Dentistry which are committed to teaching and practice of minimally invasive dentistry and caries management by risk assessment. Primary duties will include clinical and preclinical teaching, including lecture, seminar, and continuing education activities. The university encourages all faculty to actively participate in research, although it is not required in this series. Academic rank and salary level will be based on the successful applicant's experience. These positions carry full university benefits, membership in the department's compensation plan, and the opportunity to participate in the department's intramural facility practice. UCSF seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence. Interested applicants should submit a letter of intent, CV, and the names of three references to Dr. Sheila Broar, Division Chair, University of California, San Francisco,
CALIFORNIA—Restorative Dentistry

The University of California at San Francisco seeks a full-time, tenure-track faculty member in the Department of Preventive and Restorative Dental Sciences (PRDS) for its program in prosthodontics, commencing on or before January, 2007. Candidates are required to have D.D.S. (or equivalent degree) and board eligibility in prosthodontics, while candidates also having a Ph.D. in a relevant discipline are preferred. The School of Dentistry is a world leader in research of orofacial diseases and study of materials and therapies applied to their prevention and treatment. The successful candidate will demonstrate a history or high potential for development of an independent research program. Clinical or translational research interests in dental implants or other disciplines related to prosthodontics are desired. Responsibilities of this position also include teaching prosthodontics in the predoctoral and postgraduate prosthodontics programs. Salary augmentation will be available via participation in the departmental compensation plan and the PRDS faculty group practice with California licensure by exam, credential or a special permit from the California Board of Dentistry. UCSF seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence. The individual selected must have a D.D.S./D.M.D. degree or the equivalent, have multiple years of experience including clinical practice, university teaching, and be a board-certified or board-eligible prosthodontist. A Ph.D. or equivalent and significant contribution to scientific literature in areas of research that complement this position are desirable. Candidates must have completed their prosthodontic graduate training at an ADA-accredited program. UCSF seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence. The university is an equal opportunity/affirmative action employer. The university undertakes affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities, Vietnam-era veterans, and special disabled veterans.

COLORADO—Comprehensive Care

The University of Colorado School of Dentistry is seeking applicants for two full-time clinical/teaching (C/T) track or tenure-track positions in the Comprehensive Care Program in the Department of Restorative Dentistry. Responsibilities will include teaching general dentistry, treatment planning, and practice management in predoctoral, preclinical, and clinical courses, and active participation in the CU Dental Faculty Practice. A D.D.S./D.M.D. degree from an accredited U.S. dental school, or dental specialty or fellowship training through an accredited program is required. It is highly desirable that candidates for the position have clinical practice experience and be eligible for Colorado licensure. Salary and rank will be commensurate with credentials and experience. Deadline to apply is September 1, 2006 or until position is filled. Qualified applicants should send a letter of intent and CV to Dr. Grayson Marshall, Chair, Division of Bioengineering and Biomaterials, University of Colorado at San Francisco, Box 0758, San Francisco, CA 94143-0758.

CONNECTICUT—Dental Hygiene

Trinity Community College is seeking an Instructor of Dental Hygiene for a ten-month tenure-track position with an anticipated start date of
August 25, 2006. Minimum qualifications include a master's degree in
dental hygiene or related field, strong technology skills, knowledge of
current digital dental radiology techniques and patient care software.
ability to teach the skills to students, provide in-service to adjunct
faculty and supervise all aspects of current clinical technology including
dental radiology labs. Must understand outcomes based education and
be able to provide educational support and remediation for students.
Must be a team player with a commitment to maintaining and improving
the high standards of the dental hygiene department. Must have
excellent communication skills. Must be licensed in Connecticut and
hold a Certificate of Local Anesthesia that complies with the State of
Connecticut statutes. Applicants who do not meet the minimum
qualifications as stated are encouraged to put in writing precisely how
their background and experience have prepared them for the
responsibilities of this position and by providing appropriate references.
Exceptions to the degree requirements may be made for compelling
reasons. Responsibilities include teaching a full load of credit courses
as well as other related duties in accordance with the collective
bargaining agreement. In addition, must be available to teach clinical
dental hygiene in community health care settings on Saturdays and
evenings. The minimum annual salary for this position is approximately
$43,657. Send letter of intent, current resume, transcripts, and the
names of three references to Tunxis Community-Technical College,
Human Resources Department, Dental Hygiene, 271 Scott Swamp
Road, Farmington, CT 06032-3187. Letter of application must be
postmarked on or before July 9, 2006. All applicants interviewed will be
required to complete the unclassified application form. Tunxis
Community-Technical College is an affirmative action/equal opportunity
employer, M/F. Protected group members are strongly encouraged to
apply.

INDIANA—Dental Assisting and Dental Hygiene

Ten-month, tenure-track dental hygiene/dental assisting position.
Responsibilities include clinical, laboratory, and classroom teaching in
the dental hygiene and dental assisting programs. In addition to
teaching, responsibilities include providing academic advising to
students, engaging in ongoing scholarly productivity, participating in
academic program evaluation, providing service to the university
community by service on committees and task forces, and participating
in the scholarship of engagement by service to the community at large.
The successful candidate will hold an Indiana dental license or be
eligible for licensure. Preference will be given to candidates with
teaching experience. Interested applicants should submit a letter of
intent, curriculum vitae, and the names, telephone numbers, and email
addresses of three professional references to Deborah Carl, Search
Committee Chair, University of Southern Indiana, 8600 University Blvd,
Evansville, IN 47712. Review of applications will begin immediately and
continue until the position is filled.

KENTUCKY—Restorative Dentistry

The University of Kentucky College of Dentistry is seeking applications
for a full-time, tenure-track position in the Division of Restorative
Dentistry. Applicants must have a D.D.S. or D.M.D., or equivalent
degree from an institution accredited by the Commission on Dental
Accreditation and qualify for a Kentucky dental license. Board eligibility
or certification in prosthodontics is highly desired but not required.
Responsibilities include teaching in the predoctoral education program,
participation in scholarly activity, and treating patients in the intramural
faculty practice. Teaching experience is desirable. Salary and rank
commensurate with experience. Send curriculum vitae and names of
three references to Dr. James E. Haubenreich, Chief, Division of
Restorative Dentistry, D638 Chandler Medical Center, 800 Rose Street,
Lexington, KY 40536-0297. The University of Kentucky is an EEO/AA
employer. If offered this position, you will be required to pass a pre-
employment drug screen and a pre-employment national background
clearance in accordance with University of Kentucky human resources.

NEBRASKA—Orthodontics

The University of Nebraska Medical Center College of Dentistry in
Lincoln, NE, invites applications for a full-time, tenure-track faculty
clinical teaching of predoctoral dental students. Opportunities for research and intramural practice are available and encouraged. Salary and rank will be commensurate with qualifications and experience. Applications will be accepted until the vacancy is filled. The University of Oklahoma is an EEO/AA employer. Qualified women and members of minority groups are encouraged to apply. Please send curriculum vitae and a list of three references to Dr. Luis Blanco, Chair, Department of Fixed Prosthodontics, College of Dentistry, P.O. Box 26901, Oklahoma City, OK 73190.

OKLAHOMA—Operative Dentistry

Seeking a full-time Assistant Professor (tenure-track or non tenure-track) position available in the Department of Operative Dentistry. Responsibilities involve student contact in undergraduate didactic, laboratory, and clinical courses. Minimum qualifications for the position include experience in providing clinical restorative treatment for patients, successful completion of a dental program approved by the ADA Council on Accreditation, and eligibility for Oklahoma dental license. Teaching experience in dental education is highly desirable. Applications will be reviewed as received. Send curriculum vitae and a list of three references to Dr. Terry Fruits, Search Chair, Department of Operative Dentistry, College of Dentistry, P.O. Box 26901, Oklahoma City, OK 73190. The University of Oklahoma is an EEO/AA employer.

* TENNESSEE—Dental Hygiene

The Dental Hygiene Department at the University of Tennessee Health Science Center invites applications for a 12-month, tenure-track position as the Graduate Program Director for the master of dental hygiene degree program. Major responsibilities include coordination of all aspects of the UTHSC graduate academic program leading to an online master’s in dental hygiene (MDH), developing graduate curricula and courses, recruiting and facilitating the admission of graduate students, fiscal management of the MDH program, and acting as course director for appropriate courses. Duties also include participation in scholarly activities/research, administrative duties, faculty practice, and professional and other service activities. Applicants must be licensed in dental hygiene with at least five years of teaching and/or administrative experience. A doctoral degree is preferred. Experience with online course administration platforms required. The candidate must be eligible for Tennessee licensure as a dental hygienist. Salary and rank will be commensurate with education and experience. Send letter of application, curriculum vitae, and names of three references to J. S. Covington, Chair, Advisory Search Committee, Department of Dental Hygiene, University of Tennessee Health Science Center, 930 Madison Avenue, Suite 600, Memphis, TN 38163. Review of applications will begin July 1, 2006 and continue until position is filled. The University of Tennessee Health Science Center is an EEO/AA/Title VI/Title IX/Section 504/ADA/IDEA employer.

TENNESSEE—Restorative Dentistry

The University of Tennessee Health Science Center College of Dentistry seeks nominations and applications for the position of Chair of the Department of Restorative Dentistry. The department, one of six clinical departments in the College of Dentistry, has primary responsibility for the following areas: dental anatomy, occlusion, operative dentistry, biomaterials, esthetic dentistry, DAU, and prosthodontics. The College of Dentistry is one of seven colleges comprising the university’s Health Science Center. The college serves approximately 385 students in predoctoral and advanced training programs. Applicants must have a D.D.S./D.M.D. degree and meet eligibility requirements for a Tennessee dental license. The responsibilities of this position include working with a diverse faculty, staff, and student personnel, department administration, faculty and staff development, management of the department’s educational programs (undergraduate didactic, clinical, pre-clinical and postdoctoral programs in AEGD and Prosthodontics), research, and service activities. The successful candidate will be an individual with excellent communication skills, administrative experience, demonstrated vision and creativity with regard to dental education, health care delivery, research and service and have highly developed academic leadership.
May 2006
Vol 39, Issue 5

Classified Advertising

ILLINOIS—Orthodontics

The College of Dentistry at the University of Illinois at Chicago is seeking full-time, tenure-track faculty or clinical faculty (non-tenured) for the orthodontics department beginning August 1, 2006. Responsibilities include teaching of predoctoral and postdoctoral orthodontics, conducting independent research, administration as appropriate, and participating in continuing education programs and faculty practice. For additional details, contact Dr. Carla Evans, Department Head, carlevans@uic.edu. Required academic qualifications include D.D.S./D.M.D. and eligibility to apply for dental and orthodontic specialty licenses or faculty license in Illinois. American Board of Orthodontics eligibility/certification preferred. Salary and rank commensurate with educational background and experience. Five written letters of reference will be required of all finalists. For fullest consideration, please respond by May 15, 2006. Review of applications will begin immediately and continue until the position is filled. Applications should reference “Job Code APORTH”. Forward a letter of interest, curriculum vitae, and a description of research interests to the Human Resources Dept., UIC College of Dentistry, (MC 6211), 801 S. Paulina St., Chicago, IL 60612 or email odmark@uic.edu. AAFE/C.

INDIANA—Operative

The department of restorative dentistry at Indiana University School of Dentistry invites applications for a full-time, tenure-track or clinical-track position in operative dentistry at the assistant/associate professor level. The position will include didactic and laboratory teaching to undergraduate students in the clinical and preclinical settings, service, and may include research responsibilities depending upon the academic track chosen. Candidates with a strong commitment and/or experience in clinical and laboratory teaching in operative dentistry are encouraged to apply. Applicants must have a D.D.S./D.M.D. degree from an ADA-accredited dental school. Dental licensure in Indiana or the eligibility is required for this position. Postgraduate training in restorative dentistry is desirable but not required. The position is available immediately and applications will be accepted until the position is filled. Salary and rank will be commensurate with experience and qualifications. Interested individuals should email an electronic application, an electronic curriculum vitae, and three electronic reference letters to Dr. Chris Miller at cmiller@iupui.edu. Executive Associate Dean, Indiana University School of Dentistry, 1121 W. Michigan Street, Indianapolis, IN 46202. Indiana University is an equal opportunity/affirmative action employer.

Related Articles

- University of Southern California Offers Joint Leadership and Management Program for Oral Health Professionals
- From the Student’s Mouth


7/18/2006
Iowa City, IA 52242-1001 AA/EEO employer; women/minorities encouraged to apply.

KENTUCKY—Clinical

The University of Kentucky College of Dentistry is seeking applications for a full-time, tenure-track position in the clinical team program. Applications must have a D.D.S. or D.M.D. degree from a CODA-accredited dental school and must be eligible for licensure in Kentucky. Responsibilities include overseeing the management and treatment of patients assigned to a team of undergraduate student dentists. The teams are intended to provide a general practice role model for the student dentist. Experience in private practice and/or teaching experience is highly desirable. Salary and rank will be commensurate with qualifications and experience. Please send curriculum vitae, references, and letter of interest to Dr. Thomas McConnell, Chair of the Search Committee, Room Mn-230, University of Kentucky College of Dentistry, Lexington, KY 40536-0297. The University of Kentucky is an EEO/AA employer. If offered a position, you will be required to pass a pre-employment drug screen in accordance with University of Kentucky human resources.

MINNESOTA—Health Ecology

The University of Minnesota School of Dentistry invites applications for the position of Director, Division of Health Ecology. The division of health ecology, based in the department of primary dental care, is responsible for education and scholarship in the areas of dental public health and community dentistry. The school is part of an outstanding Academic Health Center and consistently attracts high quality students, has achieved an international reputation for research, education, and service, and was most recently ranked 7th in NIH/NIHCR funding. The Academic Health Center also includes the university's School of Public Health, which is consistently ranked one of the top in the country and has attracted more NIH research funding than any other public university school of public health for the last four out of five years.

Applicants must have a D.M.D./D.D.S. degree or equivalent, a graduate-level degree in public health or a related field (e.g., M.P.H., D.P.H., Ph.D.), and must be eligible for a tenure appointment at the rank of associate or full professor. Also requires experience in teaching, demonstrated scholarship within the discipline, and a proven track record for successfully securing extramural funding to support research. Board-certification in dental public health is also desirable.

The ideal candidate will have a keen appreciation for the connections between population-based issues in dental public health and clinical practice. Experience in multi-disciplinary collaboration is also desirable. Her/his will be responsible for the general oversight of public health education for pre-doctoral and dental hygiene students and the development of a new advanced education program in dental public health in collaboration with the School of Public Health. Academic rank and a competitive salary will be commensurate with qualifications and experience. Opportunities for intramural practice are available.

Interested individuals should submit a letter expressing interest in the position and a curriculum vitae to Stephen K. Shuman, D.D.S., M.S., Chair, Search Committee, Division of Health Ecology, University of Minnesota School of Dentistry, 15-126 Moos Tower, 515 Delaware St. SE, Minneapolis, MN 55455. Email applications are also accepted shuman001@umn.edu. More information about the School of Dentistry and the position is available online at http://www.dentistry.umn.edu. Review of applicants will begin immediately and continue until the position is filled. The University of Minnesota is an equal opportunity educator and employer.

MISSOURI—Dental Hygiene

Missouri Southern State University (MSSU) Department of Dental Hygiene is experiencing an exciting period of growth and seeks two dental hygiene educators to fill two full-time 10-month positions beginning August 1, 2006 as assistant/associate professor depending on qualifications. MSSU has a strong undergraduate program and is preparing to delivery their program through distance education technology with clinics established for each satellite program. These positions will be for one of the two distance satellite programs. The
satellite programs are located in Rolla and Sikeston, Missouri. Seasoned and novice educators with a demonstrated talent and commitment to the dual role of scholar and teacher are invited to join our team. Applicants should have the following minimum credentials: A master’s degree in dental hygiene or related discipline preferred, licensure or eligibility for licensure in Missouri, clinical practice experience, and prior teaching experience are preferred. Application Deadline is June 1, 2006 or until position is filled. This is a one-year appointment with continuation dependent upon availability of funds. For more information, see the University of Missouri website at www.missouri.edu. Candidates must be lawfully authorized to work in the United States. Applicants should include a letter of interest indicating the site you are interested (Rolla or Sikeston), curriculum vitae with the names, addresses, and phone numbers of three references to Dr. Tia M. Strait, Dean, School of Technology, Missouri Southern State University, 3950 East Newman Road, Joplin, MO 64801-1595. MSSU is an EEO/AA employer. This appointment will be contingent upon the availability of funds.

NEBRASKA—Restorative

The University of Nebraska Medical Center (UNMC) College of Dentistry is seeking candidates for a full-time position at the assistant or associate professor level available 09/01/06 in the department of adult restorative dentistry. Responsibilities include didactic and clinical teaching in all areas of prosthodontics including fixed, removable, implants and occlusion. The candidate selected for this position will be expected to assume the Directorship of the section of prosthodontics upon recommendation by the department chairman and approval by the Dean. Participation in the continued development of departmental research as well as active involvement in the college’s intramural faculty practice is available and encouraged. Candidates who have completed an ADA-accredited residency program in prosthodontics and have attained board certification are preferred. Position qualifications require a D.D.S./D.M.D. and the candidate will be required to obtain a Nebraska dental license (active or teaching). Salary and academic rank will be commensurate with the candidate’s background and experience. Review of applications will continue until the position is filled. Applications are being accepted for this position, #1188, online at jobs.unmc.edu. Inquiries concerning this position may be addressed to Dr. Henry V. Germain at 402-472-1278. The University of Nebraska Medical Center is an equal opportunity/affirmative action employer.

NEVADA—Dean

The UNLV School of Dental Medicine (SDM) is seeking an accomplished and visionary dental educator as Dean who will serve as the chief administrative officer reporting directly to the UNLV Executive Vice President and Provost. The successful candidate should have established national prominence and a distinguished record of teaching, scholarly activity, and service appropriate for appointment at the rank of a tenured full professor at UNLV. A D.M.D. or D.D.S. degree is required, with an advanced degree being highly desirable. Candidates must have a record of success in effective academic administration, possess a collegial and consultative style, and exhibit a commitment to enhance the research mission of the school. Corresponding experience in public advocacy is desirable, along with a commitment to the establishment and maintenance of strong relationships with all communities of interest including the fostering of current and future public/private partnerships. Candidates must demonstrate superb interactive and communication skills and the ability to foster student, faculty and staff teams of professional and academic leaders. A commitment to diversity is essential.

Salary is commensurate with qualifications and experience. The university has an excellent fringe benefits package. Position is contingent upon funding. The UNLV School of Dental Medicine offers a four-year program leading to the D.M.D. degree, and will graduate its inaugural class in May of 2006. The school is located on a 18.2 acre campus that opened in May of 2004 in the heart of the Las Vegas Medical District. It has approximately 110,000 square feet of classroom, clinical, research and administrative space and incorporates the latest technology, including a paperless clinical information system, an
electronic curriculum, and a state-of-the-art simulation classroom. The departments of biomedical sciences, clinical sciences, and professional studies comprise the school's streamlined administrative structure. The curriculum is integrated across traditional disciplines and utilizes a concept known as "SAIL"—student-active-integrated-learning. For more information, see http://www.unlv.edu. Applications must include a letter of application with a statement of the candidate's vision for dental education, research, and service, curriculum vitae, and names, addresses, and telephone numbers of five references. Send to Dr. Paul W. Ferguson, Chair, School of Dental Medicine Dean Search Committee, c/o Ms. Carole Hoefle, Division of Research and Graduate Studies, University of Nevada, Las Vegas, 4505 S. Maryland Parkway, Box 451017, Las Vegas, NV 89154-1017, carole.hoefle@unlv.edu. Review of applications will begin on April 15, 2006 and will continue until the position is filled. UNLV is an affirmative action/equal opportunity educator and employer committed to excellence through diversity.

NEVADA—General Practice

The University of Nevada, Reno School of Medicine, General Practice Dental Residency is seeking candidates for a full-time academic faculty position. Duties include supervising and teaching residents didactically and clinically; overseeing residents in hospital setting; providing dental care in the University Dental Program clinic. Position includes opportunity for health-services research. For complete position description and to apply on line use http://unrsearch.com. EEO/AA Women and under-represented groups are encouraged to apply.

NEVADA—General Dentistry

Assistant/Associate/Full professor-in-residence of clinical sciences, general dentistry,
University of Nevada, Las Vegas School of Dental Medicine. April 2006. For more information call 702-895-3886 to speak to an employment representative or go to http://hr.unlv.edu/jobs. AA/EEO employer.

NEVADA—Radiology

Assistant/Associate/Full Professor of Clinical Sciences (Radiology), University of Nevada, Las Vegas, Spring 2006. For more information go to http://hr.unlv.edu/jobs or call 702-895-3886 to speak to an employment representative. EEO/AA employer.

OHIO—Dental Hygiene

The Ohio State University College of Dentistry, dental hygiene. Full-time, tenure-track position at the assistant professor level available. Teaching responsibilities include clinical, laboratory, and didactic instruction for baccalaureate level dental hygiene students. Additional responsibilities include research/scholarly activities, student advising, committee involvement, and designated faculty assignments as determined by the program director. Minimum qualifications include: registered dental hygienist, graduate degree in dental hygiene or related field, teaching experience and clinical practice. License for licensure in Ohio is required. Opportunities for faculty practice may be available. Salary is commensurate with candidate's qualifications and experience. The Ohio State University, College of Dentistry is an equal opportunity/affirmative action employer. Review of all applicants will begin upon receipt and continue until position has been filled. Appointment is anticipated autumn 2006. Inquiries, a letter of intent, and a curriculum vitae should be sent to Ms. Wendy Moore, Chair, Search Committee, Dental Hygiene, Section of Primary Care, College of Dentistry, The Ohio State University, 305 W. 12th Avenue, Columbus, OH 43210. Email address is moore.1397@osu.edu

OKLAHOMA—Restorative
The Dental Branch is located in the heart of the Texas Medical Center which offers significant resources and important opportunities for collaboration and advanced training. The Dental Branch is one of six schools in the most comprehensive health science center in Texas. The University of Texas Health Science Center at Houston is an equal opportunity employer and a non-smoking environment. Women and minorities are encouraged to apply. This is a security sensitive position and thereby subject to Texas Education Code § 51.215. A background check will be required for the final candidate. Send a letter of application, a curriculum vitae and a list of three references to: Dr. Ken Brady, The University of Texas Dental Branch at Houston, Department of Restorative Dentistry and Biomaterials, 6516 M. D. Anderson Blvd., Suite 493, Houston, TX 77030.

**UTAH—Dental Hygiene**

Have you ever imagined what it would be like to be on a dental hygiene educational dream team? Have you ever thought about how exciting it would be on the ground floor of a new and innovative dental hygiene program? Have you ever wished for the opportunity to educate dental hygiene students in a way that would be visionary, creative, and of the highest quality? The Utah College of Dental Hygiene has commenced a search for two full-time faculty members for a dental hygiene program that will offer associate and baccalaureate degrees. Both positions are full-time, consecutive term appointments and would include didactic, laboratory, and clinical teaching, student advising, community and college service, professional association activities, and scholarly pursuits. Additional responsibilities for the first position include coordinating second-year clinical activities, as well as calibration and supervision of clinical faculty. The second position will primarily be that of academic course director. Academic rank and the generous salary are commensurate with training and experience. Minimum qualifications include graduation from an accredited dental hygiene program, eligibility for or current dental hygiene licensure in Utah, and a master's degree in dental hygiene or related discipline. Preference will be given to those who have experience as a dental hygiene educator. Initial review of applications will begin April 1 and continue until positions are filled. Send letter of interest, curriculum vita, and contact information for three references to Professor Trisha Nunn, Academic Dean and Co-Director of Dental Hygiene, Utah College of Dental Hygiene, 1176 South 1480 West, Orem, UT 84058. Questions may be addressed to Professor Nunn at tnunn@ucfh.edu.

**WEST VIRGINIA—Clinical Education and Patient Care**

Applications and nominations are invited for the position of Associate Dean for Clinical Education and Patient Care at West Virginia University School of Dentistry. WVU, founded in 1867, is a comprehensive Carnegie designated Doctoral Research-Extensive land-grant institution, with approximately 25,000 undergraduate and 5,500 graduate and professional students. The University is located in Morgantown, WV, a community of approximately 50,000 located only 75 miles south of Pittsburgh, with easy access to major metropolitan areas in the East and Midwest. Morgantown is also listed among the best small towns in the USA, with affordable housing, excellent schools, a very low crime rate, breathtaking scenery, and a variety of four season activities. The School of Dentistry is one of 14 colleges in the University and is part of a comprehensive Health Sciences Center, which also includes Schools of Medicine, Nursing, Pharmacy, Allied Health, the Mary Babb Randolph Cancer Center, and West Virginia University Hospitals. The Health Sciences Center campus is also the home for the new Rockefeller Neurosciences Institute, and construction of a new Library/Learning Resource Center is currently underway. The school offers a four-year curriculum leading to a D D S. degree and baccalaureate and masters' degree programs in dental hygiene. Postgraduate programs include oral and maxillofacial surgery, orthodontics, endodontics, prosthodontics and general practice residency. The school also maintains an excellent community-based education program, in which dental and dental hygiene students spend time providing oral health care in practices throughout the state. The position of Associate Dean for Clinical Education and Patient Care is a full-time administrative position with faculty rank reporting directly to the
February 2006
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HEADLINES

Classified Advertising
The bulletin accepts appropriate classified advertisements from institutions and individuals. Advertisements are run at the following rates: 100 words or fewer, first insertion: $125. Each additional word: $1. Consecutive repeated ads are run at a flat rate of $50. Advertising in Academic Dental Careers Network or Journal of Dental Education $50 additional per publication. The bulletin neither investigates the offers being made nor assumes any responsibility concerning them. The bulletin reserves the right to edit copy and to accept, delete, or withdraw classified advertisements at its discretion. To ensure publication in a given month, send copy in time to be received by the 15th day of the month preceding the month of publication. Send advertisements to Lauren Gaffney at GaffneyL@ADEA.org.

CALIFORNIA—Oral Diagnosis and Treatment Planning
The University of the Pacific Arthur A. Dugoni School of Dentistry is seeking candidates for a full-time, tenure-track position at the assistant or associate professor level available July 1, 2006 in the department of diagnostic and emergency services. Responsibilities include didactic, preclinical, and clinical teaching in comprehensive patient examination, diagnosis, treatment planning, patient management, and basic restorative procedures, screening and evaluation of new patients, and emergency patient assessment, diagnosis, and treatment procedures. Salary and academic rank will be set in accordance with the candidate's qualifications and experience. Position qualifications require a DDS/DMD degree and licensure or eligibility to become licensed in the state of California. Experience in both dental education and private dental practice is preferred. All full-time faculty of the university are expected to engage in teaching, service, and research activities commensurate with a teacher-scholar faculty appointment and supported by the department. Submit CV and three letters of recommendation to Dr. Alan W. Budenz, University of the Pacific Arthur A. Dugoni School of Dentistry, 2155 Webster Street, San Francisco, CA 94115-2333. AA/EO employer.

GEORGIA—Dental Hygiene
Full-time, nine-month position beginning August 2006. Minimum qualifications for the position include Bachelor's degree in dental hygiene, and a minimum of a Master's degree in dental hygiene or related field; doctorate preferred. The candidate must be able to demonstrate at least 18 hours of graduate credit related to dental hygiene or dental hygiene education. Current knowledge of subjects to be taught, and background in appropriate educational methodology. For more information visit our website at http://adminservices.clayton.edu/provost/facopenings.htm. Interested applicants should send a cover letter, curriculum vitae, and...
ILLINOIS—Endodontics

Southern Illinois University School of Dental Medicine invites applications for a full-time, tenure-track position at the assistant/associate professor level in the department of applied dental medicine, section of endodontics. The School of Dental Medicine is centrally located on a beautiful historic campus in Alton, Illinois, 30 minutes from both downtown St. Louis and the main campus of Southern Illinois University Edwardsville. Responsibilities include teaching and mentoring residents in the graduate program, independent research, teaching in the predoctoral program, and service to the university. Applicants must have a DDS or DMD degree and be eligible for licensure in compliance with the Illinois Dental Practice Act. Specialty training in endodontics and American Board of Endodontics eligibility or certification is required. Previous teaching experience and/or a record of research accomplishment through publication and external funding are desirable. The graduate program in endodontics is affiliated with Saint Louis University. Excellence in teaching is integral to the mission of Southern Illinois University and the School of Dental Medicine. Salary and rank are commensurate with qualifications and experience. Opportunity for extramural practice is available. Review of applications will begin immediately and continue until the position is filled. Submit a letter of intent, curriculum vitae, and three references to Dr. Ann M. Boyle, Dean, Southern Illinois University School of Dental Medicine, 2800 College Avenue, Alton, IL 62002. SIU-SDM is an EEO/AA employer. Women and minorities are encouraged to apply. SIUE is a state university. Benefits under state sponsored plans may not be available to holders of F-1 or J-1 visas.

ILLINOIS—Pediatrics

Southern Illinois University School of Dental Medicine invites applications for a full-time, tenure-track position at the assistant/associate professor level in the department of growth, development and structure, section of pediatric dentistry. The School of Dental Medicine is centrally located on a beautiful historic campus in Alton, Illinois, 30 minutes from both downtown St. Louis and the main campus of Southern Illinois University Edwardsville. Responsibilities include didactic, laboratory and clinical teaching in the predoctoral and AEGD programs, independent research, and service. Applicants must have a DDS or DMD degree and be eligible for licensure in compliance with the Illinois Dental Practice Act. Advanced training in pediatric dentistry from an ADA-accredited program and board certification or eligibility is also required. Prior teaching experience is desirable. Specialty programs in endodontics and periodontics are presently offered at the SIU School of Dental Medicine in collaboration with Saint Louis University. Feasibility studies are underway to consider adding a postgraduate program in pediatric dentistry. Excellence in teaching is integral to the mission of Southern Illinois University and the School of Dental Medicine. Salary and rank are commensurate with qualifications and experience. Opportunity for extramural practice is available. Review of applications will begin immediately and continue until the position is filled. Submit a letter of intent, curriculum vitae, and three references to Dr. Ann M. Boyle, Dean, Southern Illinois University School of Dental Medicine, 2800 College Avenue, Alton, IL 62002. SIU-SDM is an EEO/AA employer. Women and minorities are encouraged to apply. SIUE is a state university. Benefits under state sponsored plans may not be available to holders of F-1 or J-1 visas.

ILLINOIS—Restorative
Southern Illinois University is seeking applications for a full-time faculty position in the department of restorative dentistry. This position will be available July 2006. Responsibilities include didactic, preclinical, and clinical teaching in operative dentistry at the predoctoral level, with some teaching at advanced levels, and service to the university. For tenure-track appointments, independent research and scholarly activities are also expected. Applicants must have a DDS/DMD degree and be eligible for licensure in compliance with the Illinois Dental Practice Act. Candidates should have clinical experience or advanced training in operative dentistry. Prior experience in dental education or private practice is highly desirable. The department is responsible for the disciplines of operative dentistry, fixed and removable prosthodontics, oral morphology and occlusion, and dental materials. Excellence in teaching is integral to the mission of Southern Illinois University and the School of Dental Medicine. Salary and rank are commensurate with qualifications and experience. Opportunity for extramural private practice is available. Review of applications will begin immediately and continue until the position is filled. Submit a letter of intent, curriculum vitae, and three references to Dr. Ann M. Boyle, Dean, Southern Illinois University School of Dental Medicine, 2600 College Avenue, Alton, IL 62002. SIU-SDM is an EEO/AA employer. Women and minorities are encouraged to apply. SIUE is a state university. Benefits under state sponsored plans may not be available to holders of F-1 or J-1 visas. For further information, contact Dr. Mark Belcher, Chair, Search Committee at mbelche@siue.edu.

MINNESOTA—Dental Hygiene

The University of Minnesota School of Dentistry invites applications for a full-time, tenure-track position at the level of assistant/associate professor in the division of dental hygiene. The successful candidate will serve as the clinical director and be responsible for coordinating the prelicensure clinical curriculum with the dental hygiene academic curriculum. Other responsibilities include clinical and didactic teaching, research, and scholarship activity. Qualified candidates must possess a Master's degree in dental hygiene or related field (PhD degree is preferred), eligibility for Minnesota licensure, evidence of scholarly activity, leadership skills, a working knowledge of dental hygiene clinical curriculum planning and management, and excellent communication and managerial skills in dealing with students, faculty, and staff. Salary will be commensurate with qualifications and experience. Applications will be considered from candidates whose qualifications meet the minimum requirements prior to commencement of employment. Review of applications is now in progress. The search will remain open until position is filled. Applicants should send a letter of application, curriculum vitae, and names and contact information for three references to Ms. Lauri Dawis, Personnel Specialist, University of Minnesota School of Dentistry, 15-116 Moos Tower, 515 Delaware SE, Minneapolis, MN 55455 or dawis004@umn.edu. The University of Minnesota is an equal opportunity educator and employer.

NEW JERSEY—Group Practice Administration

The UMDNJ—New Jersey Dental School, nationally recognized for excellence in teaching, research, health care, and community service invites application for a full-time Group Practice Administrator position in the open clinics of the UMDNJ—New Jersey Dental School. Responsibilities include clinical instruction in an open clinic setting to third- and fourth-year students, review of the progress of treatment of each patient assigned to his/her group, evaluate student's performance in patient care. Qualified applicants should have a DDS/DMD degree from an accredited U.S. dental school with preference being given to candidates with previous teaching experience. Salary and academic rank commensurate with experience and qualifications. Benefits include a highly competitive salary, financial incentive program to supplement your salary, loan redemption program may be available, excellent pension plan and retirement benefits, outstanding medical, dental, and prescription package, vacation, sick days, and paid holidays. availability of excellent continuing education.
courses. The University of Medicine and Dentistry of New Jersey is an
equal opportunity employer. Women and minorities are encouraged to
apply. Review of applications will begin immediately and continue until
the position is filled. Applicants should submit curriculum vitae, and the
names and addresses of three references to UMDNJ—New Jersey
Dental School, Dr. Michael Conle, Assistant Dean, Office for Clinical
Affairs, Fifty 12th Avenue, Room D-955, Newark, NJ 07103-2400.

NEW YORK—Oral Biology

The University at Buffalo department of oral biology invites applications
for a full-time, tenure-track faculty position at the professor/associate
professor/assistant professor level. We are seeking outstanding
individuals capable of establishing and maintaining an independent
research program, with emphasis on the immunological, inflammatory,
or salivary aspects of the host response that will complement present
investigators focused on the study of oral biofilms. Appropriate
candidates with research interests in bioinformatics, functional
genomics, proteomics, and computational biology will have the
opportunity to work as a member of the NYS Center of Excellence in
Bioinformatics and Life Sciences. Additional collaborative opportunities
are available through the School of Medicine and Biomedical Sciences,
Roswell Park Cancer Institute, and other affiliated organizations. The
successful candidate will be expected to contribute to the teaching
mission of the department, including supervision of graduate students
in oral biology, and instruction in the undergraduate and graduate
dental school curricula. Successful candidates will hold DDS, DMD,
MD, PhD or equivalent. Applications from individuals with dual degrees
(e.g., DDS/PhD, DMD/PhD) are especially encouraged. Candidates
appointed will be expected to have significant grant funding, a
national/international research reputation, and appropriate teaching
experience. To apply, send your curriculum vitae, copies of three
publications, a concise statement describing future research plans, and
the names of three references to Dr. Kurt Winter, Department of Oral
Biology, University at Buffalo, 135 Foster Hall, Buffalo, NY 14214;
3092. The University at Buffalo is committed to increasing diversity
within its faculty by seeking women and minority candidates.

OHIO—General Practice Residency

Seeking director to develop and secure accreditation for start-up dental
practice residency program consisting of four residents. Program will
have a one-year training curriculum and begin Summer 2006 in
community hospital setting. Candidates should possess two years
experience as associate or assistant dental residency director. Salary
commensurate with credentials and experience. Offering coverage for
malpractice/health/life/disability/dental, four weeks vacation, one week
CME, CME stipend, and relocation monies. Located in Stark County,
home of Ohio's Professional Football Hall of Fame city, Canton. One
hour from Cleveland, two hours from Columbus, Pittsburgh, Detroit,
and Buffalo, and four hours from Cincinnati. Contact Jan Peach,
Physician Relations, Phone 1-800-999-8662 ext 1162, Email

OREGON—Dental Hygiene

Pacific University is seeking applications for full-time faculty positions in
their new School of Dental Health Science. The school will offer a
Bachelor of Science degree entry-level dental hygiene program
beginning fall 2006 with Bachelor of Science degree completion and
Master of Science degree programs in the following years. The school
will be located at Pacific's new Health Professions Campus in Hillsboro,
approximately 15 miles west of Portland, Oregon. Minimum
qualifications include graduation from an accredited dental hygiene
program, licensed or eligible for licensure in Oregon, master's degree in
dental hygiene or a related field, teaching experience in dental hygiene
education, excellent communication skills, and demonstrated
community and professional service. Spanish language skills and
cultural diversity experience preferred. Responsibilities include didactic,
laboratory, and clinical teaching, student advising, community and
university service, professional association activities, and scholarly
pursuit. Salary and academic rank will be commensurate with
QUALIFICATIONS. Review of applications will begin immediately and continue until positions are filled. Send application letter, curriculum vita, three letters of recommendation, and unofficial transcripts via email to lnajrowley@pacificu.edu and hard copy to Lisa J. Rowley, Search Committee Chair, School of Dental Health Science, Pacific University, 2043 College Way, Forest Grove, OR 97116. For additional information, visit our website at www.pacificu.edu or call 503-352-2131.

SOUTH CAROLINA—Endodontics

The Medical University of South Carolina is offering a full-time, tenure-track position as director of the division of endodontics, College of Dental Medicine. The division is responsible for undergraduate education, research, patient care, and professional service. Faculty practice is available one day per week on campus through an approved teaching license. Candidate must have a dental degree from an ADA-accredited dental school, endodontic board certification or eligibility, and demonstrated academic achievement. The college would like to establish an endodontic residency. The Medical University of South Carolina is an EEO/AA employer. Minorities and women are encouraged to apply. Apply online at www.musc.edu/hrm. For further information contact Dr. James Rivers, Chair, Department of Restorative Dentistry, College of Dental Medicine, Medical University of South Carolina, 173 Ashley Avenue, BSB 545, PO Box 250507, Charleston, SC 29425.

TENNESSEE—Restorative

The University of Tennessee, College of Dentistry invites applications for two full-time, tenure-track positions in the department of restorative dentistry. The department is responsible for instruction in operative dentistry, dental morphology, occlusion, fixed and removable prosthodontics, and oral implantology. Responsibilities include predoctoral and postdoctoral instruction in all aspects of restorative dentistry. The positions, one in the operative dentistry division and one in the prosthodontics division, are available immediately. Candidates must have a DDS/DMD degree and be eligible for licensure in Tennessee. Salary and rank would be determined by the candidate’s experience level. Participation in continuing education, research, and faculty practice is expected. Interested applicants should forward a letter of intent, current curriculum vitae, and the names and addresses of two references to Dr. Russell A. Wicks, Interim Chair, Department of Restorative Dentistry, University of Tennessee, College of Dentistry, 875 Union Avenue, Memphis, TN 38163. Email rwicks@utm.edu. The University of Tennessee is an EEO/AA/Title VII/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.

WEST VIRGINIA—Periodontics

West Virginia University School of Dentistry is seeking applications for a full-time, 12-month tenure- or clinical-track faculty position at the assistant/associate professor level in the department of periodontics and division of dental hygiene. Responsibilities will include predoctoral teaching in periodontics and postdoctoral teaching of periodontics to graduate students in various disciplines. Sufficient experience in practice of periodontics to establish and maintain a viable faculty practice, provide service activities, ability to perform scholarly activities including research, and ability to utilize multimedia formats. Candidates must be eligible for a West Virginia dental license, which currently requires a DDS or DMD degree from an accredited U. S. or Canadian dental school. A specialty degree/certificate in periodontics from an accredited United States or Canadian periodontics specialty program is required. Applicants must be certified by the American Board of Periodontology or must obtain certification within five years. Previous predoctoral and/or postdoctoral didactic and clinical teaching experience in periodontology, experience in dental implantology, hard and soft tissue augmentation, regeneration procedures, and other periodontal therapy procedures considered to be a part of the specialty of periodontics is required. Candidate must demonstrate effective writing, interpersonal, and communication skills, and have a commitment to social justice. The possibility exists for the development of a postgraduate program in periodontics in the future. West Virginia
**Career Opportunities**

**Work Abroad—Dental Hygienist in Germany**

Position available in state-of-the-art dental office immediately or at a later date. German language (oral) important. Full-time position. Respond to Elke Mehlief, Neue Straße 54, 70186 Stuttgart, Mobile: (49) 172 406 77 77 Email: info@mehleif.de.

Canada, Cranbrook, BC—FT Hygienist July 2006

Annual recall and booked 1 year in advance. Tuesday to Friday: 8:30-4:15pm. Cell: (250) 421-3409, phone: (250) 429-4721, fax: (250) 426-8124, darren@unisys.com

Very progressive U.S. group practice in Hong Kong seeking serious applications for an available 2 years-tenured hygienist position ASAP. US $4,000-$6,000 minimum monthly or 30% commission whichever is higher. Chinese language skill is not necessary. Suitcase 513-516 Prince's Building, Central, Hong Kong, SAR. Tel: (852) 2526 2288, Fax: (852) 2521 8632, Email: dentals@adp.com.hk.

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**Great Expressions Dental Centers**

Great Expressions Dental Centers has exciting opportunities for hygienists.

We are looking for highly motivated practitioners to join our team in our expanding locations in Michigan, Indiana, Massachusetts, Connecticut & Georgia. We provide our employees with an excellent practice environment and rewards them with a competitive compensation package. Contact Samuel Herlong at (281) 203-1120 or email samuel.herlong@greatexpressions.com.

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**NORTHERN ARIZONA UNIVERSITY**

**Assistant Professor in Dental Hygiene**

The Dental Hygiene Department in the School of Health Professions at Northern Arizona University (NAU) seeks applications for two full-time, tenure eligible, Assistant Professors in Dental Hygiene. These tenure eligible track positions involve clinical and didactic teaching in an innovative, team-oriented curricular program, with a 1 plus 3 curriculum. The Dental Hygiene Department at NAU celebrates its 30th anniversary this year and it acknowledges nationwide for its progressive approach to education. It also offers a U.S. Completion Program for registered hygienists.

Kaplan Newsweek called NAU a "hidden treasure," and an instruction that "provides maximum personal attention to students; the Dental Hygiene Department exemplifies this reputation. Flagstaff (eleven miles north of Phoenix, and at the base of the majestic San Francisco Peaks, resulting in a beautiful four-season climate.)

Northern Arizona University is an 18,000 student institution with its main campus in Flagstaff, a four season community of about 47,000. NAU's emphasis on undergraduate education is enhanced by its graduate programs and research as well as distance learning.

The successful applicant will hold a dental hygiene license, master's credentials, and be eligible for licensure as a dental hygienist in Arizona. Web education, dental hygiene teaching experience, doctoral degree and commitment to diversity is preferred.

See www.nau.edu/hr for more information.

Salary competitive with experience. Send resume and letter of interest to Chair of Dental Hygiene Search Committee, NAU, Box 1065, Flagstaff, AZ, 86011-1065. Or e-mail Dental.Hygiene@nau.edu. Positions open until filled. Northern Arizona University is a committed Equal Employment Opportunity/Affirmative Action Employer. Minority, women, persons with disabilities and veterans are especially encouraged to apply.
**Harper College**

**FACTORY, DENTAL HYGIENE**

William Ramsey Harper College, a dynamic, community college located in Chicago's southwest suburbs, is actively pursuing energetic and innovative candidates for our tenure-track faculty positions in Dental Hygiene, commencing Fall 2006. Candidate must apply online by 10/15/06.

This position will provide didactic, laboratory, and clinical instruction and evaluation of student performance in the Associate Degree Dental Hygiene Program. Position also participates in and contributes to program, institutional and instructional committees, assignments, and projects.

**Requirements:**
- Must have a registered dental hygienist.
- Master's Degree in health-related discipline or higher education.
- 2 years of experience in teaching and 2 years of experience in the field of dental hygiene.
- Minimum of three years of clinical dental hygiene experience.
- Minimum of two years teaching experience in both clinical and didactic or laboratory dental hygiene courses.

Salary is commensurate with experience and credentials. This is a 9-month tenure-track position with opportunity for overload and summer pay.

For application requirements and benefit information, please see our posting at https://jobs.harpercollege.edu. Applications will be accepted until position is filled.

Harper College is an Equal Opportunity Employer that encourages applications from women, ethnic minorities, and persons with disabilities.

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**ADHA SEeks Manager of RESEARCH**

The American Dental Hygienists' Association (ADHA), a national, not-for-profit, professional association representing the interests of more than 120,000 registered dental hygienists, is now opening for a Manager of Research. Reporting to the Director of Research, the person in this position will assist with the development, implementation, and evaluation of research activities for ADHA, including grants and contracts from external organizations, and serve as a resource to members and staff regarding survey design, sample selection, data analysis, and presentation.

The candidate chosen for this position will have a master's degree in research, public health or a related field. Experience with databases and program evaluations (SSRS, Excel and SAS) is required. Strong verbal and written communications skills as well as the ability to project a service-oriented attitude are key.

Salary will be commensurate with background and experience. This is an exempt position with an excellent benefits package.

Interested persons should send resume in confidence to Human Resources, American Dental Hygienists' Association, 414 North Michigan Avenue, Suite 3400, Chicago, IL 60611. Please outline your qualifications for this position in a comprehensive cover letter.

The American Dental Hygienists' Association is an affirmative action, equal opportunity employer.

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**ADVANCING ACCESS for the NEW AGE**

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**MARCH 2006**
ADHA SEeks MANAGER OF DENTAL HYGIENE EDUCATION

The American Dental Hygienists' Association (ADHA), a national not-for-profit professional association representing the interests of more than 120,000 registered dental hygienists, has an immediate opening for a manager of dental hygiene education. The manager will report to the director of education and will be responsible for maintaining relations with the approximately 280 plus accredited entry-level dental hygiene programs in the United States.

The candidate chosen for this position will have a baccalaureate degree in dental hygiene education, excellent communication skills and demonstrated community and professional service, Spanish language skills, and cultural diversity experience preferred. Responsibilities include: academic advising, student advising, community and university service, professional association activities and scholarly pursuits. Salary and academic rank will be commensurate with qualifications. Review of applications will begin immediately and continue until position is filled. Send application letter, curriculum vita, three letters of recommendation and unofficial transcripts via email to jessyperley@adha.org and hard copy to Lisa J. Boyles, Search Committee Chair, School of Dental Health Science, Pacific University, 2043 College Way, Forest Grove, OR 97116. For additional information, visit our Web site at www.adha.org or call 503/352-2131.

As a result of positive program growth, Idaho State University's local-accredited dental hygiene program is seeking an instructor for a full-time, one-month, tenure-track faculty position with emphasis in didactic and clinical teaching. Start date is August 14, 2006. In addition to teaching, responsibilities include academic advising, community and professional service, research/scholarly activity, committee assignments, and supervision for students enrolled in our master of science degree program. Required qualifications include graduation from an ADA-accredited dental hygiene program, a master's degree in dental hygiene (preferred) or relevant discipline, education and practice in non-surgical periodontal therapy, some experience with evidence-based teaching and eligibility for Idaho license. Education and experience in local anesthesia and research/scholarly activity is preferred. Opportunity for extramural practice is available. Salary and rank are commensurate with qualifications and experience. Applications received before now and March 10, 2006 will receive first consideration. Applications received after that date may be considered until the position is filled. Send application letter, resume or curriculum vita, and a list of three academic and professional references—one from a former employer—to Anna Herro, RDH, MEd, Search Committee Chair, Department of Dental Hygiene, Campus Box 2848, Idaho State University, Pocatello, ID 83209. Email herroa@isu.edu or telephone 208/282-7306. Idaho State University is an EOAA employer.

ADHA reserves the right to accept, withdraw, or decline advertisements w/o its discretion.

DISABILITY/DISSATISFIED?

Join other RDHs who found the answer. Work from home $500-$2,000/mo. FT, $2,000-$6,000/mo. FT. www.americanlife1.com 1-800-353-0500

Dental Hygienist

Alec Iacono, DDS, in Towson, MD, is seeking FT/RDH with excellent interpersonal skills. Mail resume to Susan Crown, Office Manager, 200 Towsontown Court, Ste. 112, Towson, MD 21204.

NEODRYS™

Ultimate Parallel Saliva Control

Doing sealants? ... Without an assistant?

Consider now NEODRYS™ for long term moisture control. They beat other saliva absorbers in patient comfort, design and value. You will be absolutely amazed at the absorption capacity. A whole quadrant of sealants can be completed with one pad. It's like having a third hand! Runs dry; no problem, water sheets right off the NEODRYS™ plastic shield. And they stay in place; yet remove easily with a light water spray. Available in two sizes: Large (blue) and Small (yellow). For details and product samples, call 1-800-235-1853 or use the information service card. Microcopy
ADHA SEEKS DIRECTOR OF RESEARCH

The American Dental Hygienists' Association (ADHA), a national not-for-profit professional association representing the interests of more than 120,000 registered dental hygienists, has an immediate opening for a director of research. The candidate chosen for this position will have a minimum of a master's degree in a research-related field and knowledge of the health care industry with expertise in grant writing. Strong oral and written communications skills and computer literacy required. Association experience a plus.

This position will report directly to the executive director and will be responsible for all research-related programs in the strategic plan. Staffing the Council on Research and special committees, representing ADHA in meetings with external organizations and serving as a member of the senior staff will be ongoing functions.

Salary ($60,000–$75,000) will be commensurate with background and experience. This is an exempt position with an excellent benefits package. Interested candidates should send curriculum vitae and salary requirements in confidence to Human Resources, American Dental Hygienists' Association, 444 North Michigan Avenue, Suite 3400, Chicago, IL 60611. Please outline your qualifications for this position in a comprehensive cover letter.

The American Dental Hygienists' Association is an affirmative action, equal opportunity employer.

ADHA SEEKS EDITOR, JOURNAL OF DENTAL HYGIENE

The American Dental Hygienists' Association (ADHA), a national, non-profit, professional association representing the interests of more than 100,000 registered dental hygienists, has an immediate opening for the Editor of the Journal of Dental Hygiene.

The Journal of Dental Hygiene is a refereed journal published quarterly by the association. This position requires approximately 20 hours per week worked in the editor's home or personal office. The editor will report to ADHA's Director of Communications and will develop a close working relationship with staff at ADHA's central office. Regular communication with central office in Chicago, Illinois will be conducted by phone and email. Compensation will be according to contract and will be in the range of $20,000–$25,000 annually. The editor will be funded to attend ADHA's annual session and one meeting per year in ADHA's office.

The editor is responsible for the content of the Journal of Dental Hygiene. Duties include soliciting articles and other scientific material for possible publication; reviewing the content of manuscripts prior to publication; consulting with authors, the managing editor, and the editorial staff as to the final disposition of manuscripts; appointing members of the journal's editorial review board; and overseeing the manuscript review process. The editor is also the author editor for publication in the journal.

Interested parties should send curriculum vitae and salary requirements in confidence to Human Resources, American Dental Hygienists' Association, 444 North Michigan Avenue, Suite 3400, Chicago, IL 60611. Please outline your qualifications for this position in a comprehensive cover letter.

The American Dental Hygienists' Association is an affirmative action, equal opportunity employer.

DISABLED/DISSATISFIED?

Join other RDH who found the answer! Work from Home $500–$2,000/month, PST, $2,000–$6,000/month, EST. www.adsupportf101.com 1-800-353-4950

REALLY sweep your needs for more information?

University of Bridgeport
School of Dental Hygiene
Call 800-420-7467
Email: adhdent@bridgeport.edu or visit http://www.bridgeport.edu/dentalhygiene

Assistant Director of Extramural Programs

Applicants are sought for a full-time faculty position in the Department of General Dentistry. Position is available immediately and review of applications will continue until the position is filled. Applicants must have an RDH, Master's degree in education, business, public health, public administration, or higher education required. Rank and salary will be commensurate with qualifications and experience. Responsibilities include administration and coordination of student placement, recruitment, and development of extramural sites. Teaching and student advising within predoctoral program included. Successful candidate must possess strong oral and written language skills, interpersonal and organizational skills. 3–5 years teaching and/or administrative experience required. Applications should submit a letter of interest with resume or curriculum vitae and names of 3 professional references to Madlyn L. Mann, MS, Office of Extramural Programs, Boston University Goldman School of Dental Medicine, 715 Albany Street, R M 309, Boston, Massachusetts, 02118, or email rmann@bfu.edu. Boston University is an EEO/AA employer.
ADHA SEeks DIRECTOR
OF COMMUNICATIONS

The American Dental Hygienists' Association (ADHA), a national not-forprofit professional association representing the interests of more than 120,000 registered dental hygienists, has an immediate opening for a director of communications. The candidate chosen for this position will have a minimum of a bachelor's degree in journalism or a related field and experience running a multifaceted communications operation including online publications and Web-based communications. Association experience is a plus.

This person will report directly to the executive director and will be responsible for all communications-related programs in the strategic plan. Overseeing the staffing of the Council on Public Relations, editing internal and external reports and position papers, and serving as a member of the senior staff council will be ongoing functions.

Salary ($60,000–$75,000) will be commensurate with background and experience. This is an exempt position with an excellent benefit package. Interested parties should send curriculum vitae/resume and salary requirements in confidence to Human Resources, American Dental Hygienists' Association, 444 North Michigan Avenue, Suite 3400, Chicago, IL 60611. Please outline your qualifications for this position in a comprehensive cover letter.

The American Dental Hygienists' Association is an affirmative action, equal opportunity employer.

ADHA SEeks DIRECTOR
OF EDUCATION

The American Dental Hygienists' Association (ADHA), a national not-forprofit professional association representing the interests of more than 120,000 registered dental hygienists, has an immediate opening for a director of education. The candidate chosen for this position will have a minimum of a master's degree in dental hygiene or a related field and experience as a dental hygiene educator. Experience with accreditation is highly desirable. Strong oral and written communications skills and computer literacy required. Association experience is a plus.

This person will report directly to the executive director and will be responsible for all education-related programs in the strategic plan. Staffing the Council on Education, special committees and task forces; representing ADHA in meetings with external organizations; and serving as a member of the senior staff will be ongoing functions.

Salary ($60,000–$75,000) will be commensurate with background and experience. Interested parties should send curriculum vitae and salary requirements in confidence to Human Resources, American Dental Hygienists' Association, 444 North Michigan Avenue, Suite 3400, Chicago, IL 60611. Please outline your qualifications for this position in a comprehensive cover letter.

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ADHA SEeks DIRECTOR
OF RESEARCH

The American Dental Hygienists' Association (ADHA), a national not-for-profit professional association representing the interests of more than 120,000 registered dental hygienists, has an immediate opening for a director of research. The candidate chosen for this position will have a minimum of a master's degree in a research-related field and knowledge of the health care industry with expertise in grant writing. Strong oral and written communications skills and computer literacy required. Association experience is a plus.

This person will report directly to the executive director and will be responsible for all research-related programs in the strategic plan. Staffing the Council on Research and special committees, representing ADHA in meetings with external organizations and serving as a member of the senior staff will be ongoing functions.

Salary ($60,000–$75,000) will be commensurate with background and experience. This is an exempt position with an excellent benefit package. Interested parties should send curriculum vitae and salary requirements in confidence to Human Resources, American Dental Hygienists' Association, 444 North Michigan Avenue, Suite 3400, Chicago, IL 60611. Please outline your qualifications for this position in a comprehensive cover letter.

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Appendix G

Faculty Biosketches
**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armitage, Gary Conrad</td>
<td>Professor of Periodontology</td>
</tr>
</tbody>
</table>

| eRA COMMONS USER NAME | armitaire |

| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.) |
|------------------------|-------------------|

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of California, San Francisco</td>
<td>DDS</td>
<td>1962-66</td>
<td>Dentistry</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>Certificate</td>
<td>1969-71</td>
<td>Periodontology</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>MS</td>
<td>1970-73</td>
<td>Oral Biology</td>
</tr>
</tbody>
</table>

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

**A. Positions and Honors**

**Positions and Employment**

1966-67  Dental Intern, U.S. Public Health Service, U.S.P.H.S. Hospital, Seattle, WA.
1967-69  Clinical Associate, NIDR, Dental Services Branch, Bethesda, MD.
1969-71  Specialty training in periodontics (Certificate), University of California, San Francisco.
1974-75  Assistant Research Scientist, University of Michigan, School of Dentistry, The Dental Research Institute, Ann Arbor, MI.
1971-78  Assistant Professor of Periodontology, University of California, San Francisco, School of Dentistry.
1978-84  Associate Professor of Periodontology, University of California, San Francisco, School of Dentistry.
1988-89  Visiting Professor, University of Texas Health Science Center at San Antonio.
1984-now Professor, Division of Periodontology, UCSF School of Dentistry.

**Other experience and Professional Memberships**

1983-2002 Vice Chair, UCSF Department of Stomatology
1984-2002 Chair, UCSF Division of Periodontology
1987-88 President, Periodontal Research Group, IADR
2000-now United States Pharmacopeia Drug Information (USP-DI) -- Dentistry Expert Committee
2003-now Consultant, VA Palo Alto Health Care System
2006-now NIDCR: Scientific Review Group (ZDE1 RK59, 2006/08) for “Special Emphasis Panel on Clinical Research on Osseointegrated Dental Implants”

**Honors**

1977-78  Distinction in Teaching Award (Awarded by the UCSF Academic Senate)
1988  Fellow, American College of Dentists; Fellow, Academy of Dentistry International
1997  Fellow, American Academy of Periodontology
2000  Gold Medal, American Academy of Periodontology
2001-now R. Earl Robinson Distinguished Professor of Periodontology (UCSF)
2002-now Honorary Professor, West China College of Stomatlogy, Sichuan University
2004  Distinguished Faculty Award (American College of Dentists)
B. Selected peer-reviewed publications (in chronological order).
(Publications selected from 75 peer-reviewed publications)


C. Research Support.

**Ongoing Research Support**

Sunstar Butler (SB.PER-005-002) GC Armitage (PI, San Francisco site) 7/01/05-3/31/07
"A 9-month multicenter clinical trial of treatment with Periocline® (2% minocycline HCl) for adjunctive use to scaling and root planing in adults with periodontal disease. Multicenter randomized trial using 3rd party outcome evaluation."
This study is a multicenter (10-center) randomized controlled clinical trial evaluating the effect of the subgingival application of a 2% minocycline ointment (Periocline®) as an adjunct to scaling and root planing in the treatment of patients with chronic periodontitis.
Role: PI

R01 DE014868 S. Gill (PI) 11/01/04-10/31/07
NIH/NIDCR
"Community genomics of the human oral microbiome."
This study will characterize and compare the profiles of microbial diversity and microbial gene expression in the oral cavities of subjects with a healthy periodontium, gingivitis, and chronic periodontitis. The study is a cooperative venture with Dr. Steven Gill from TIGR (Rockville, MD) and Dr. David Relman (Stanford University).
Role: PI of the UCSF subcontract with TIGR; Co-investigator

**Completed Research Support**

R01-DE13541 D. Relman (PI) 7/01/00-6/30/03
NIH/NIDCR
"A molecular analysis of subgingival microbial diversity."
This study examined the microbial diversity of the subgingival flora in patients with either healthy periodontal tissues or chronic periodontitis. An association was demonstrated between periodontitis and the presence of Archaea.
Role: PI of the UCSF subcontract with Stanford University; Co-investigator

P60-DE13058 C. Damsky (PI) 7/01/99-6/30/03
NIH/NIDCR
"Comprehensive Oral Health Center for Discovery" (Project 6: Effects of bisphosphonates and PTH on mandibular bone density. [Nancy Lane, PI]). This randomized, placebo-controlled trial evaluated the adjunctive effect bisphosphonate on the response to nonsurgical therapy for chronic periodontitis.
Role: Co-PI

P60-DE13058 C. Damsky (PI) 7/01/99-6/30/02
NIH/NIDCR
"Comprehensive Oral Health Center for Discovery" (Project 9: Sialyl Lewis X in risk assessment for periodontal disease. [Susan Fisher, PI]). This study examined the relationship between Sialyl Lewis X markers in whole saliva and periodontal status.
Role: Co-PI

OraPharma Inc. (OPI 103A.OPI 103B) G. Armitage (PI, San Francisco site) 7/01/98-6/30/99
"A multicenter, phase 3 trial of minocycline periodontal therapeutic system (Minocycline PTS): Adjunctive use in patients with adult periodontitis." This randomized placebo-controlled clinical trial evaluated the adjunctive effect of Arestin® in the nonsurgical treatment of chronic periodontitis.
Role: PI
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
William F. Bird

POSITION TITLE
Clinical Professor & Interim Chair, Department of Preventive and Restorative Dental Sciences

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wabash College, Crawfordsville, IN</td>
<td>BA</td>
<td>1957</td>
<td>Zoology</td>
</tr>
<tr>
<td>Loyola University, Chicago, IL</td>
<td>DDS</td>
<td>1961</td>
<td>Dentistry</td>
</tr>
<tr>
<td>University of Kansas, Lawrence, KS</td>
<td></td>
<td>1966-67</td>
<td>Ed. Grad Program</td>
</tr>
<tr>
<td>Harvard University, Boston, MA</td>
<td>MPH</td>
<td>1974</td>
<td>Public Health</td>
</tr>
<tr>
<td>Harvard University, Boston, MA</td>
<td>Dr. PH</td>
<td>1976</td>
<td>Public Health Adm.</td>
</tr>
</tbody>
</table>

A. Positions and Honors

Positions:
1961-83 Commissioned Officer at Various Locations USPHS Indian Health Service
Director, Dent. Asst. Tng.
Director, Intern Trgn. Prog.
Dir. Dent. Ed. & Staff Dev.
1983-89 Private Practice of Dentistry, Albuquerque, NM
1986-88 Associate Professor, University of Minnesota Sch. Of Dent. Minn., MN
1989-91 Assistant Clinical Professor, Univ. of California, San Francisco, CA
1991-92 Associate Clinical Professor, Univ. of California, San Francisco, CA
1991-92 Interim Chairman, DPH&H
1992-96 Assoc. Clinical Prof. Vice Chair, Univ. of California, San Francisco, CA, Restorative/DPHH
1996-2005 Clinical professor & Chair, Univ. of California, San Francisco, CA, PRDS
1997-2005 Clinical Professor/Assoc. Dean, Clinic Admin, Univ. of California, San Francisco, CA
2005-present Clinical Professor/Interim Chair Department of Preventive and Restorative Dental Sciences

HONORS:

1961 Blue Key National Honor Society
1957-61 Loyola University School of Dentistry, Dean's List Freshman and Senior year
1968 USPHS Commendation Medal for development of accredited DA program and research in expanded functions/team training
1970 Special Promotion to Officer grade O-6 (Col.), a five year early promotion
1971 Award/Comdr., Ft. Wingate Army Dept for military personnel
1973 Indian Health Service Area Dir. Certificate of Merit for Outstanding Service
1980 American Dental Assistant Association Certificate of Award for CE Program
1981-cont. Who's Who in the West and Southwest
1981 USPHS Meritorious Service Award for the HIS Staff Development and Dent. Ed. Prog.
1978-82 Certificate of Recognition of Services, American Association of Public Health Dent.
1989/90/95 Dental Public Health & Hygiene Outstanding Teacher of the Year
1991 Elected as a Fellow to the American College of Dentists (FACD)
1993 Elected to Omicron Kappa Upsilon (national dental honor society)
1998 American College of Dentists, No. CA. Section: Outstanding Dental Faculty of the Year Award
2004/05 Nominated for Alumnus of the year for Harvard School of Public Health

B. Selected peer-reviewed publications (chronological order). Do not include publications submitted or in preparation.


Bird WF. An orientation to the hospital operating room. J Dent Assist Fall 1980/Spr 1993 (revised) Also reprinted and is used

As a continuing education correspondence course for credit for dental assistants.


Kayser-Jones J, Bird WF, Schell E. Strategies for Conducting Dental Examinations Among Cognitively Impaired Nursing
Home Residents, Special Care Dentistry, Vol. 16, No. 12, pg. 46-52, 1996


Chapters and Other Invited Articles

Bird WF, et al. Indian Health Service Dental Reference Text. USPHS Dental Training Center, DHEW, USPHS, IHS, BIA SIPI Press, Albuquerque, NM April, 1972, P. 98.


Bird WF, (co-editor). Clinical Specialties in Dentistry, DHEW, USPHS, IHS, Dental Services Branch, Albuquerque, NM. 1979, P. 379


Abstracts


Kombayashi T, Bird W. Advanced standing programs for foreign trained Dentists in US Dental Schools with a focus on IDP-UCSF. J. dent Ed., Vol 69, # 4, pg 109, January 2005 (abstract)
C. **Research Support.** List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

Robert Wood Johnson  (Bird, W., PI)  
9/1/02 – 8/31/07  
Title: Pipeline, profession and practice: community-based dental education  
Goals:  
1. Establishment of community based clinical education programs;  
2. Revision of dental school curricula to support community based education programs and;  
3. Actions to increase recruitment and retention of underrepresented minority and low income students

W.K. Kellogg/American (Bird, PI)  
1/10/03 – 1/30/07  
Title: Dental Education Association Access to Dental Careers  
Goals: Pipeline grantees to be used for direct educational assistance to:  
1. Under Represented (URM) minority dental students, post graduate dental students who wish to pursue a faculty career;  
2. Enhance existing financial strategies at US dental schools that help them recruit URM into the dental profession.
Biographical Sketch

Provide the following information for the key personnel and other significant contributors, in the order listed on Form Page 2. Follow this format for each person. Do not exceed four pages.

Name:
Darrell Boychuk, DDS

Position Title:
Assistant Clinical Professor, University of California, San Francisco

Education/Training:

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Degree (if applicable)</th>
<th>Year(s)</th>
<th>Field of Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Alberta</td>
<td>BSc</td>
<td>1975-1980</td>
<td>Dentistry</td>
</tr>
<tr>
<td>University of Alberta</td>
<td>DDS</td>
<td>1980-1982</td>
<td>Dentistry</td>
</tr>
</tbody>
</table>
| University of Alberta    | Resident               | 2004-2005| Orofacial Pain/TMJ Disord.

A. Positions and Honors

Positions and Employment
2006-2007 Assistant Clinical Professor, Dentistry, University of Alberta
2006-2007 Group Leader- Comprehensive Care Clinic, Dentistry, University of Alberta
2006-2007 Attending, Emergency Dental Service, University of Alberta Hospital
2006-2007 Private Practice Limited to Orofacial Pain and Temporomandibular Disorders
2007-Now Assistant Clinical Professor, Department of Oral and Maxillofacial Surgery, University of California, San Francisco
2007-Now Faculty Practice - Center for Orofacial Pain, University of California, San Francisco

B. Publications

Selected peer-reviewed publications:

Review Article:

C. Research Support

(PI) 1/1/04-5/31/06
Fund for Dentistry
The Action of Amiltriptyline and Nortriptyline on Chronic Masticatory Muscle Pain
## BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

### NAME
**Gwen Essex**

**eRA COMMONS USER NAME**

### POSITION TITLE
Associate Health Sciences Clinical Professor

Department of Preventive and Restorative Dental Sciences

### EDUCATION/TRAINING
*(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
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<th>YEAR(s)</th>
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<tr>
<td>San Diego City College</td>
<td>AS</td>
<td>1992 - 1994</td>
<td>Human Biology, Honors</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>BS</td>
<td>1994 - 1996</td>
<td>Dental Hygiene</td>
</tr>
<tr>
<td>San Francisco State University</td>
<td>MS</td>
<td>1996 - 1999</td>
<td>Health Science</td>
</tr>
<tr>
<td>University of San Francisco</td>
<td></td>
<td>2004 - now</td>
<td>Learning and Instruction</td>
</tr>
</tbody>
</table>

### A. Positions and Honors

#### Positions and Employment

1996 - 1999   Clinical Instructor, University of California, San Francisco, School of Dentistry
1999 - 2005   Assistant Clinical Professor, University of California, San Francisco, School of Dentistry
2005 – now    Associate Clinical Professor, University of California, San Francisco, School of Dentistry

#### Other Experience and Professional Memberships

1996 - 1997   Dental Hygienist Private Practice - Arthur Muncheryan, DDS
1997 - 1999   Dental Hygienist Private Practice - Robert Hepps, DDS
1999   San Francisco Dental Hygiene Society - Secretary
1999 - 2000   Dental Hygienist Private Practice - Elizabeth Nubia-Penn, DDS
1999 - 2003   Dental Hygiene Recruiter University of California, San Francisco
2000 – 2001   San Francisco Dental Hygiene Society - Delegate
2000 – 2001   San Francisco Dental Hygiene Society - Newsletter Editor
2001 - now    Dental Hygienist Private Practice - UCSF Faculty Group Practice
2003 - now    Designer of UCSF Dentistry Web CT Curriculum
2004 – now    Sigma Phi Alpha Dental Hygiene Honor Society, Beta Beta Delta Chapter - President

### Honors

1996   University of California, School of Dentistry Elizabeth Fuhrman Gardner Award
1996   Sigma Phi Alpha National Dental Hygiene Honor Society
1997   UCSF School of Dentistry Outstanding Volunteer Faculty Member of the Year
2000   UCSF School of Dentistry Excellence in Teaching Award from the Dental Hygiene Class of 2000
2001   UCSF School of Dentistry Excellence in Teaching Award from the Dental Hygiene Class of 2001
2002   UCSF School of Dentistry Excellence in Teaching Award from the Dental Hygiene Class of 2002
2003   UCSF School of Dentistry Excellence in Teaching Award from the Dental Hygiene Class of 2003
2006   Oral-B/Robert W. Hutson Faculty Prize
B. Selected peer-reviewed publications (in chronological order)


C. Research Support

Completed Research Support
PI: Featherstone, JDB 4/2/04 - 10/015/04
Lee Hysan Fellowship Program
A study on effectiveness of providone iodine against oral cariogenic bacteria in adults with high caries risk.
Role: Co-Investigator
# BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Douglas Bernard Featherstone</td>
<td>Professor</td>
</tr>
</tbody>
</table>

**EDUCATION/TRAINING** (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Victoria University of Wellington</td>
<td>B.Sc.</td>
<td>1964</td>
<td>Chemistry &amp; Math</td>
</tr>
<tr>
<td>University of Manchester, England</td>
<td>M.Sc.</td>
<td>1975</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>Victoria University of Wellington</td>
<td>Ph.D.</td>
<td>1977</td>
<td>Chemistry</td>
</tr>
</tbody>
</table>

**A. Positions and Honors.** List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

**PROFESSIONAL EXPERIENCE**

<table>
<thead>
<tr>
<th>Time Frame</th>
<th>Position/Title</th>
<th>Institution/Company</th>
</tr>
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<tbody>
<tr>
<td>Nov. 1964-Jul. 1966</td>
<td>Quality Control Chemist</td>
<td>Unilever (New Zealand) Ltd.</td>
</tr>
<tr>
<td>Jul. 1972-Jul. 1974</td>
<td>Production Manager</td>
<td>Quinoderm Pharmaceut, Ltd.,</td>
</tr>
<tr>
<td>Apr. 1975-Apr. 1977</td>
<td>Ph.D. Student</td>
<td>Victoria University of Wellington, N.Z.</td>
</tr>
<tr>
<td>Sep. 1980-Apr. 1983</td>
<td>Assistant Professor (part-time)</td>
<td>{Department of Dental Research,</td>
</tr>
<tr>
<td>Apr. 1983-Jun. 1995</td>
<td>Associate Professor (part-time)</td>
<td>Univ of Rochester, Rochester, NY</td>
</tr>
<tr>
<td>Jun. 1980-Nov. 1988</td>
<td>Associate Professor</td>
<td>{Department of Oral Sciences</td>
</tr>
<tr>
<td>Dec. 1988-Jun. 1995</td>
<td>Professor</td>
<td>Eastman Dental Center</td>
</tr>
<tr>
<td>Oct. 1993-Jun. 1995</td>
<td>Research Professor (joint appt.)</td>
<td>School of Dental Medicine, SUNY</td>
</tr>
<tr>
<td>Jun. 1995-Jul. 1999</td>
<td>Professor</td>
<td>Buffalo, NY</td>
</tr>
<tr>
<td>Nov 1996 – Jul 1999</td>
<td>Interim Chair of Restorative Dentistry and of Dental Public Health, UCSF</td>
<td></td>
</tr>
<tr>
<td>August 99 – July 2005</td>
<td>Chair and Professor</td>
<td>Dept of Preventive and Restorative</td>
</tr>
<tr>
<td>August 99 - Present</td>
<td>Professor</td>
<td>Dental Sciences, UCSF</td>
</tr>
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</table>

**PRIZES, HONORS AND AWARDS**

ORCA (European Caries Research Organization) Zsolnai Prize for outstanding caries research, July 2002.
World Congress of Microdentistry – Lifetime Achievement Award. August 2003
Ericsson Prize in Preventive Dentistry – Swedish Patent Fund – November 2003
World Congress of Minimally Invasive dentistry – Scientific Research Award – August 2006

ADDITIONAL
Member of NIH/NIDR Special Grants Review Committee, 1987-1991;
NIH/NIDCR reserve/special ad hoc reviewer 1991-present.

B. Publications - John D.B. Featherstone – partial listing from past 3 years only (from a total of 193) -
Plus selected prior publications.
1. Ramos-Gomez FJ, Weintraub JA, Gansky SA, Hoover CI, Featherstone JDB. Bacterial, behavioral and
2. Fried D, Xie J, Shafi S, Featherstone JDB, Breunig TM, Le C. Imaging caries lesions and lesion
progression with polarization sensitive optical coherence tomography. J Biomedical Optics. 7:618-627,
2002.
3. Fried D, Zuerlein MJ, Le CQ, Featherstone, JDB. Thermal and chemical modification of dentin by 9-11
5. Wheeler CR, Fried D, Featherstone JDB, Watanabe L, Le CQ. Irradiation of dental enamel with Q-
switched 355 nm laser pulses: Surface morphology, fluoride adsorption, and adhesion to composite
6. Featherstone JDB, Adair SM, Anderson MH, Berkowitz RJ, Bird WF, Crall JJ, Den Besten PK, Donly
KJ, Glassman P, Milgrom P, Roth JR, Snow R, Stewart, RE. Caries Management by Risk Assessment:
7. Featherstone JDB. The Caries Balance: Contributing factors and early detection. CDA Journal, 31:129-
8. Le CQ, Fried D, Featherstone JDB. Effect of a new carbon dioxide laser treatment on dissolution
11. Featherstone JDB. Tipping the scales towards caries control. Dimensions of Dental Hygiene. 2(3):20-
14. Le CQ, Fried D, Sarma AV, Featherstone JDB. Effect of an optically thick water layer during 9.6 μm
CO₂ laser irradiation on caries inhibition. SPIE, Bellingham WA. Lasers in Dentistry X, 5313:133-137,
2004.
trial of a plant-derived antibody on recolonization of mutans streptococci. Caries Res. 39:241-
250, 2005.
16. Young DA, Featherstone JDB. Digital imaging fiber-optic trans-illumination, F-speed radiographic film
17. Weintraub JA, Ramos-Gomez, Joe B, Shain S, Hoover CI, Featherstone JDB, Gansky SA. Fluoride
18. Jones, RS, Darling, CL, Featherstone, JDB, Fried D. Imaging artificial caries on the occlusal surfaces with
19. Featherstone JD. Caries Prevention and Reversal Based on the Caries Balance. Pediatric Dent. 28:128-
20. Rodrigues LKA, Nobre dos Santos M, Featherstone JDB. In situ Mineral Loss Inhibition by CO₂ Laser
21. Featherstone JD, Lussi A. Understanding the chemistry of dental erosion. In Dental Erosion from
22. Le TO, Gochin M, Featherstone JDB, Li W, DenBesten PK. Comparative calcium binding of leucine-

Selected prior publications


C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

Research Projects Ongoing or Completed During the Last 3 Years

1) Title: Laser Effects on Dental Hard Tissues
Agency: NIH/NIDCR; RO1-DE 09958: 5/1/92-7/31/08
Principal investigator: John D. Featherstone
Goals: This project investigates the interactions of specific lasers with dental hard tissues to provide information that can be utilized for hard tissue applications of lasers in dentistry, especially in relation to caries prevention.

2) Title: Caries Management by Risk Assessment
Agency: NIH/NIDCR; RO1-DE12455: 9/15/98-6/30/04
Principal Investigator: John D. Featherstone
Goals: This clinical trial studied management of dental caries by biological risk assessment measures. Results are currently being assessed and prepared for publication.

3) Title: New Strategies for Enhancing Tissue Integrity and Repair
Agency: NIH/NIDCR; P60-DE13058; 08/01/99 – 07/31/05
Principal investigator: Caroline C. Damsky. Investigator: John D. Featherstone
Goals: This is a Center grant. Featherstone’s role is as an investigator on a clinical project which examines the efficacy of fluoride varnish in children with early childhood caries.

4) Title: Dentin Characterization and Modification
Agency: NIH/NIDCR; P01 DE 09859; 8/1/96-7/31/06.
Principal Investigator: Sally J. Marshall. Investigator and chair internal review board: John D. Featherstone
Goals: This program project investigates the fundamental physical properties of dentin and chemically modified dentin.

5) Title: Center to Address Disparities in Children’s Oral Health
Agency: NIH/NIDCR; 1 U54 DE14251; 9/30/01 – 07/31/08
Principal Investigator: Jane A. Weintraub. Investigator on Project 2, and center core: John D. Featherstone
Goals: This is a multi-project Center which aims to conduct several clinical studies and trials to find ways to better deal with oral health disparities in children.

6) Title: Studies on the Remineralizing Potential of Modified Fluoride Products
Agency: Commercial support, ongoing.
Principal investigator: John D. Featherstone
Goals: These studies utilize our pH-cycling artificial caries model to study potential new products that can prevent or reverse dental caries.

7) Title: Laser Ablation of Dental Hard Tissues
Agency: NIH/NIDCR R01-DE14554; 06/02-05/07
Principal Investigator: Daniel Fried. Investigator: John D. Featherstone
Goals: The overall objective of the research is to increase our fundamental understanding of the interaction of high intensity laser radiation with dental hard tissues and apply that knowledge to the development of laser-based methods for the selective and conservative removal of dental caries and restorative dental materials.

8) Title: Early Caries Detection with Near-IR Light
Agency: NIDCR 1R01-DE014698; 08/02-05/06
Principal Investigator: Daniel Fried. Co-investigator: John D. Featherstone
The overall objective of the proposed research is to develop non-invasive optical devices for the detection and diagnosis of early dental caries (dental decay).

9) Title: Clinical Investigation of Dentifrices
Agency: Glaxo Smith Kline; 1/04-12/05
Principal Investigator: Peter Rechmann
Co-principal investigator: John D. Featherstone
This is a clinical study investigating a new anti-caries dentifrice formulation.

10) Title: Clinical Investigation of Dentifrices
Agency: Glaxo Smith Kline; 1/04-12/05
Principal Investigator: Peter Rechmann
Co-principal investigator: John D. Featherstone
This is a clinical study investigating a new anti-caries dentifrice formulation.

11) A Novel Antibacterial Approach to Reduce Caries in Children
Agency: IADR/GSK research award: 3/05 – 2/07
Principal investigator: John D. Featherstone. Co-investigator: Ling Zhan
This is a clinical study to investigate the efficacy of a povidone iodine regimen on caries in children.

12) Effectiveness of Specific Antimicrobial Treatment Against Bacteria that Cause Dental Decay in Children in Pacific Rim Countries
Agency: UC Pacific Rim Grant Program. 7/04 – 6/07.
Principal investigator: John D. Featherstone. Co-investigator: Ling Zhann
This is a clinical study investigating the use of povidone iodine to control caries in children in the USA and China.
BIOGRAFICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Finzen, Frederick C.

eRA COMMONS USER NAME
Finzenf

POSITION TITLE
Health Sciences Clinical Professor of Preventive and Restorative Dental Sciences

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.C. Berkeley</td>
<td>B.A.</td>
<td>1974</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>U.C.S.F. School of Dentistry</td>
<td>D.D.S. &amp; B.S.</td>
<td>1978</td>
<td>Dentistry</td>
</tr>
</tbody>
</table>

NOTE: The Biographical Sketch may not exceed four pages. Follow the formats and instructions on the attached sample.

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

Positions and Employment
1978-1979 General Practice Residency, Veterans Administration Medical Center, San Francisco
1979-1980 Fellow, Oral Medicine, UCSF School of Dentistry
1980-1982 Resident, Prosthodontics, V.A.M.C. San Francisco
1980-1981 Adjunct Lecturer, Department of Stomatology, UCSF School of Dentistry
1982 Visiting Lecturer, Department of Restorative Dentistry, UCSF School of Dentistry
1983-1986 Assistant Professor, Department of Restorative Dentistry, UCSF School of Dentistry
1986-1989 Assistant Clinical Professor, Department of Restorative Dentistry, UCSF School of Dentistry
1988- Consultant, V.A.M.C. San Francisco
1989-1992 Chief of Predoctoral Prosthodontics, Department of Restorative Dentistry, UCSF School of Dentistry
1989-1995 Associate Clinical Professor, Department of Restorative Dentistry, U.C.S.F. School of Dentistry
1992- Chair, Division of Prosthodontics, Department of Preventive and Restorative Dental Sciences, UCSF
1992-1993 Director, Postgraduate Program in Prosthodontics, Department of Preventive and Restorative Dental Sciences, UCSF
1995- Clinical Professor, Department of Preventive and Restorative Dental Sciences, UCSF School of Dentistry
1998- Director, Postgraduate Program in Prosthodontics, Department of Preventive and Restorative Dental Sciences, UCSF
2005- Health Sciences Clinical Professor, Department of Preventive and Restorative Dental Sciences, U.C.S.F. School of Dentistry
2005- Vice-Chair, Department of Preventive and Restorative Dental Sciences, UCSF
2006- Interim Chair, Division of Endodontics, Department of Preventive and Restorative Dental Sciences, UCSF

Other Experience and Professional Memberships
1974- Member, American Dental Association, California Dental Association
1975- Member, Omicron Kappa Upsilon
1982- Member, American College of Prosthodontists
1983-1989 Private Practice Limited to Prosthodontics, Corte Madera, California
1988- Member, American College of Dentists
1989-1996 Practice Limited to Prosthodontics, Faculty Group Dental Practice, University of California, San Francisco
1989-1995 Member, Federation of Prosthodontic Organizations
1995-1996 President, Omicron Kappa Upsilon
1996- Member, American Dental Education Association
1996- Practice Limited to Prosthodontics, University of California Prosthodontics Group
Other Experience and Professional Memberships (continued)

1996-1998 President, Association of UCSF Clinical Dentistry Faculty
2004- Member, Pacific Coast Society for Prosthodontics

Honors

1974 Phi Beta Kappa, University of California, Berkeley
1978 Omicron Kappa Upsilon (National Dental Society)
1986 UCSF School of Dentistry, Third Year Dental Student Award for Teaching Excellence
1986 Fellow - The American College of Prosthodontists
1987 UCSF School of Dentistry, Associated Dental Students – Excellence in Teaching Award
1987 UCSF School of Dentistry, Xi Psi Phi Fraternity – Excellence in Teaching Award
1988 Fellow - The American College of Dentists
1991 UCSF School of Dentistry, Xi Psi Phi Fraternity – Outstanding Clinical Instructor
1991 UCSF Department of Restorative Dentistry – Outstanding Teacher of the Year
1994 Co-recipient - UCSF Thomas A. Curtis Award for Contributions to the Postgraduate Prosthodontic Program
1997 Department of Oral and Maxillofacial Surgery – Distinguished Colleague of the Year
2001 UCSF School of Dentistry Dental Class of 2002 – Excellence in Teaching Award
2005 Co-recipient - UCSF Thomas A. Curtis Award for Contributions to the Postgraduate Prosthodontic Program

B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Daniel Fried

POSITION TITLE
Professor

eRA COMMONS USER NAME
dfried

EDUCATION/TRAINING. (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
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<tr>
<td>University of Toledo</td>
<td>B.S.</td>
<td>1984</td>
<td>Chemistry</td>
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<tr>
<td>University of Toledo</td>
<td>M.Sc.</td>
<td>1987</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>Wayne State University</td>
<td>Ph.D.</td>
<td>1992</td>
<td>Physical Chemistry</td>
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</table>

A. Positions and Honors
1992-1994 Postdoctoral Researcher, Oral Sciences, Eastman Dental Center and Laboratory for Laser Energetics, University of Rochester
1994-1995 Assistant Professor, Eastman Dental Center
1995-1999 Assistant Professor in Residence, Div. of Biomaterials Science, Restorative Dentistry, University of California, San Francisco
1999-2004 Associate Professor in Residence, Div. of Biomaterials Science, Dept. of Preventive and Restorative Dental Sciences, University of California, San Francisco
1996-present Member, University of California, Berkeley and San Francisco Joint Bioengineering Group
1997-present Member, University of California, San Francisco Oral Biology Graduate Research Group
2004-2005 Associate Professor, Div. of Biomaterials Science, Dept. of Preventive and Restorative Dental Sciences, University of California, San Francisco
2005-present Full Professor, Div. of Biomaterials Science, Dept. of Preventive and Restorative Dental Sciences, University of California, San Francisco

B. Publications - partial listing from past 3 years (from a total of 135)
Stannec, M., Zie, J, Le, C Q, Fried, D Influence of an Optically Thick Water Layer on the Bond-Strength of Composite Resin to Dental Enamel, Lasers in Surgery and Medicine, 33, 264-269 (2003).


Dela Rosa, A A, Sarma A V, Jones R S, Le C Q, Fried, D Peripheral Thermal and Mechanical Damage to Dentin with Microsecond and Sub-microsecond 9.6-µm, 2.97-µm and 0.355-µm Laser Pulses, Lasers in Surgery and Medicine, 35, 214-228 (2004).


PATENTS
#6,522,407 Optical Detection of Dental Disease using Polarized Light, 2/18/2003.
#60/493,569 Near-IR Transillumination for the Imaging of Early Dental Caries (pending) filed 8/08/2003
C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

**Research Projects Ongoing or Completed During the Last 3 Years**

**NIDCR RO1-DE14554 Principal Investigator (06/02-05/07) — ACTIVE (no overlap of effort)**

**Laser Ablation of Dental Hard Tissues**

The overall objective of the proposed research is to increase our fundamental understanding of the interaction of high intensity laser radiation with dental hard tissues and apply that knowledge to the development of laser-based methods for the selective and conservative removal of dental caries and restorative dental materials. The objective of this proposal will be achieved through the following five specific aims: 1. Test the hypothesis that a CO2 laser operating at 9.6 μm, resonant with the peak mineral absorption of dental hard tissues, with a pulse duration commensurate with the thermal relaxation time of the absorbed laser energy, can be used safely and efficaciously for the conservative removal of dental caries. 2. Test the hypothesis that the ablation efficiency of dental enamel at erbium laser wavelengths can be increased significantly by using a pulse duration commensurate with the thermal and stress relaxation times of the deposited laser energy. 3 Test the hypothesis that pulsed lasers resonant with water, collagen, and hydroxyapatite absorption bands are well suited for the removal of dentin without inducing excessive peripheral thermal damage to the collagen matrix. 4. Test the hypothesis that the addition of a highly absorbing layer of water to the surface of dental hard tissue prior to IR laser ablation aids in the removal of secondary non-apatite phases of calcium phosphate through hydrodynamic interaction of that irradiated water layer with those loosely adherent phases. 5 Test the hypothesis that lasers can be used for the selective ablation of resin-based restorative materials without damage to underlying healthy tissues and without excessive heat accumulation.

**NIDR 1R01-DE09958 Co-Principal Investigator (08/98-07/07) — ACTIVE (no overlap of effort)**

**Laser Effects on Dental Hard Tissue**

The objective of this research is to use lasers to modify the chemical composition of dental enamel to make it more resistant to acid dissolution with minimal heat deposition in the tooth. The hypothesis that is being tested in this project is “that there is a specific set of irradiation conditions for laser light that most efficiently and effectively interacts with dental hard tissues for the purpose of caries prevention”. Conditions include wavelength, pulse width, repetition rate, pulse energy, beam diameter, number of pulses, energy density, and safety aspects.

**NIDCR 1R01-DE014698 Principal Investigator (08/02-05/05) ACTIVE (no overlap of effort)**

**Early Caries Detection with near-IR Light**

The overall objective of the proposed research is to develop non-invasive optical devices for the detection and diagnosis of early dental caries (dental decay). The overall objectives of this proposal will be achieved through the following specific aims: 1. Measure the optical constants and light scattering anisotropy and phase function of sound dental hard tissue at wavelengths in the near-IR between 660 and 1550-nm for polarized and unpolarized light and determine the changes in those optical parameters that occur upon demineralization during the caries process. 2. Develop near-IR polarization sensitive optical coherence tomography (PS-OCT) for the detection, diagnosis, and imaging of early caries lesions and for the monitoring of lesion progression in simulated caries models. 3. Develop near-IR transillumination for the detection and imaging of early interproximal caries lesions.

**NIDCR1-R43-DE016431-01 Co-Investigator 11/1/04-10/31/05 (PI-Jeff Bush – OPTIPHASE, Inc)**

**PS-OCT for Imaging Caries Lesions**

The purpose of this grant was to develop a robust, low-cost PS-OCT system based on a novel polarization switching/autocorrelator for imaging dental caries. The Phase I SBIR covered the development cost of the first prototype unit at (Optiphase, Van Nuys, CA) that was delivered to Dr. Fried's lab, and will be used for studies proposed in this grant.
IR Laser Ablation of Dental Hard Tissues

These studies take a basic mechanistic approach to understanding ablation of dental hard tissue during irradiation with infrared (IR) lasers. The overall objective of these studies is to determine the specific laser irradiation conditions, namely wavelength, irradiation fluence, and pulse duration, that maximize the efficiency of dental hard tissue ablation while minimizing the heat deposition in the tooth.
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Stuart Gansky

POSITION TITLE
Associate Professor

ERA COMMONS USER NAME
sgansky

EDUCATION/TRAINING (Begin with baccaulaurate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
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<tr>
<td>University of North Carolina, Chapel Hill, NC</td>
<td>BSPH</td>
<td>1988</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>University of North Carolina, Chapel Hill, NC</td>
<td>MS</td>
<td>1992</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>University of North Carolina, Chapel Hill, NC</td>
<td>DrPH</td>
<td>1996</td>
<td>Biostatistics</td>
</tr>
</tbody>
</table>

EXPERIENCE:

1987-88 Statistical Research Assistant, Biometric Consulting Laboratory, Chapel Hill, NC
1988 Statistical Intern, Merck & Co., Inc., Woodbridge, NJ
1989 Statistical Intern, Neufeld Heart Center, Sheba Medical Center, Tel HaShomer, Israel
1989-92 National Institute of Environmental Health Sciences Trainee
1989-96 Statistical Research Assistant, Biometric Consulting Laboratory, Chapel Hill, NC
1992-94 Statistician, Cardiovascular Health in Children Study, UNC Nursing School, Chapel Hill, NC
1993-94 US Public Health Service Trainee
1994-96 Veterans Affairs Predoctoral Fellow in Health Services Research
1996-2000 Assistant Adjunct Professor, Division of Oral Epidemiology, Dept of Dental Public Health & Hygiene, School of Dentistry, University of California, San Francisco
1996-pres Member, Group in Biostatistics, University of California, San Francisco
1999-2004 Member, NIDCR Data Safety and Monitoring Board, Trials to Enhance Elders Tooth/Oral Health
2000-2005 Assistant Professor, Division of Oral Epidemiology & Dental Public Health, Dept of Preventive & Restorative Dental Sciences, School of Dentistry, University of California, San Francisco
2000-pres Member, Center for Health and Community, University of California, San Francisco
2000-2003 Member, NCI Advisory Board, Carcinoma Chemoprevention for Basal Cell Nevus Syndrome
2000-2005 Member, NIDCR Data Safety and Monitoring Board, Periodontal Intervention for Cardiac Events Pilot
2004-pres Member, NIDCR Clinical Trials Special Emphasis Panel
2005-pres Associate Professor, Division of Oral Epidemiology & Dental Public Health, Dept of Preventive & Restorative Dental Sciences, School of Dentistry, University of California, San Francisco

HONORS:

1991 Consulting Award, Univ of North Carolina at Chapel Hill School of Public Health Alumni Assn
1991 Travel Award, Univ of North Carolina at Chapel Hill Graduate School
1999 Travel Award, Institute for Mathematical Statistics New Researchers' Conference, Baltimore, MD

PUBLICATIONS (selected from a total of 62):


C. Research Support.

**Ongoing Research Support**

U54 DE14251 (M&F Core) NIH/NICDCR, NCMHMD Gansky (PI) 09/30/01 – 07/31/07
Measurement and evaluation core
To provide design, monitoring, and analytic support to Center projects
Role: Core Director

R01 DE015691 NIH/NIDA, NIDCR Walsh (PI) 09/01/03 – 08/31/08
Reimbursement and intensity of dentist's training
To perform a 2x2 factorial randomized clinical trial of dentists to enhance tobacco cessation activities
Role: Co-investigator/Biostatistician

R01 HS013893 AHRQ Yelin (PI) 09/30/03 – 09/29/08
The emerging healthcare system and persons with SLE
To assess healthcare utilization and outcomes of the UCSF Lupus Panel Study
Role: Co-investigator/Biostatistician

R01 AR050015 NIH/NIAMS Katz (PI) 09/01/03 – 06/30/08
Disabilities in valued life activities in persons with RA
To describe and assess correlates of valued life activities in the UCSF Rheumatoid Arthritis Panel Study
Role: Co-investigator/Biostatistician

5D13HP 30009 HRSA Silverstein (PI) 07/01/03 – 06/30/06
Expanding the dental public health workforce
Training grant for dental public health residency program, which has a large distance learning component.
Role: Co-Investigator

R01 DE09958 NIH/NIDCR Featherstone (PI) 08/01/97 - 07/31/08
Laser effects on dental hard tissues
To conduct study of the safe and effective use of lasers for caries prevention and removal.
Role: Co-Investigator

R01 R01DE014698 NIH/NIDCR Fried (PI) 08/01/02 - 05/31/06
Early caries detection with near IR light
To conduct studies on the uses of non-invasive optical devices for early caries detection and diagnosis.
Role: Co-Investigator

R01 DA015016 NIH/NIDA Gerbert (PI) 09/30/02 - 06/30/06
Positive choice: Prevention for positive health
To test if a multimedia computer program helps identify and intervene risks in HIV positive patients
Role: Co-investigator

P60 AR053308 NIH/NIAMS Yelin (PI) 04/20/06 - 03/31/11
Multidisciplinary clinical research center
To improve outcomes of people with systemic lupus erythematosus, rheumatoid arthritis and other rheumatic diseases.
Role: Core Associate Director

**Completed Research Support**

7RT-0058 Tobacco Related Disease Research Program Walsh (PI) 07/01/98 - 06/30/01
An athletic trainer-mediated spit tobacco cessation program
To perform and test an athletic-trainer based smokeless tobacco intervention in college baseball athletes.
Role: Co-Investigator
R03 DE12531 NIH/NIDR Plesh (PI) 01/01/98 - 12/31/99
Epidemiological study of chronic pain/TMDs in young women
To perform a case-control study of factors associated with chronic pain in a Contra Costa County, CA cohort.
Role: Co-Principal Investigator

R01 DE11526 NIDR/NIDR Marshall GW (PI) 08/01/97 - 06/30/00
Dentin structure, demineralization and shrinkage
To assess the relationship of in vitro dentin demineralization and shrinkage processes with structural variations in dentin
Role: Biostatistician

P01 DE09859 NIH/NIDR Marshall S (PI) 12/15/98-12/14/99
Dentin characterization and modification
To perform a program project grant to study nanoscale dentin characteristics
Role: Biostatistician

R01 DE13029 NIH/NIDR Marshall S (PI) 07/1/98 - 06/30/03
DEJ---Biomimetic model for material tissue interfaces
To study dentin-enamel junction structure-property relationships as a biomimetic model
Role: Co-Investigator

R01 DE13017 NIH/NIDR Helms (PI) 07/01/98 - 06/30/03
Biomimetics of bone regeneration
To identify and characterize signals and cues mediating hard tissue regeneration in distraction osteogenesis.
Role: Co-Investigator

R01 DE13487 NIH/NIDCR Plesh (PI) 09/25/99 - 08/31/04
Fibromyalgia and TMD in young women – a multiracial study
To perform a case-control study of chronic pain, temporomandibular disorders, and fibromyalgia in 1500 women.
Role: Co-Principal Investigator

R01 DE12455 NIH/NIDCR Featherstone (PI) 09/15/98 - 06/30/04
Caries management by risk assessment
To compare a risk assessment method vs conventional treatment to prevent caries in a randomized clinical trial.
Role: Co-Investigator

U54 DE14251 (Project 4) NIH/NICDCR, NCMHD Gansky (PI) 09/30/01 - 07/31/05
Assessing risk for early childhood caries
To understand early childhood caries disparities among preschoolers.
Role: Project Principal Investigator

U54 DE14251 (Pilot 10) NIH/NICDCR, NCMHD Gansky (PI) 09/30/03 - 09/29/04
Translating informed consent materials from English: Effects on readability
To assess if translating informed consent materials from English makes documents less readable
Role: Project Principal Investigator

P60 DE13058 NIH/NIDCR Damsky (PI) 08/01/99 - 07/31/05
New strategies for enhancing tissue integrity and repair
To enhance the repair of oral and craniofacial tissues with developmental or acquired defects and to intervene and prevent the destruction and degeneration of these tissues.
Role: Core Associate Director and Co-Investigator
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
BARBARA GERBERT

POSITION TITLE
PROFESSOR AND CHAIR

eRA COMMONS USER NAME

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
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<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Texas, Austin</td>
<td>BS</td>
<td>1964</td>
<td>Educational Psych</td>
</tr>
<tr>
<td>San Francisco State University</td>
<td>MS</td>
<td>1977</td>
<td>Organizational Psych</td>
</tr>
<tr>
<td>University of California San Francisco</td>
<td>PhD</td>
<td>1982</td>
<td>Health Psych</td>
</tr>
<tr>
<td>University of Southern California, Los Angeles National Fund for Medical Education</td>
<td>Postgraduate Fellow</td>
<td>1985-86</td>
<td>Medical Education</td>
</tr>
</tbody>
</table>

A. Positions and Honors.

Positions
1982-1985 Adjunct Assistant Professor, UCSF.
1985-1986 Postgraduate Fellow, National Fund for Medical Education, University of Southern California.
1985-1989 Assistant Professor and Chair, Division of Behavioral Sciences, Department of Dental Public Health and Hygiene, School of Dentistry, UCSF.
1989-1993 Associate Professor and Chair, Division of Behavioral Sciences, Department of Dental Public Health and Hygiene, School of Dentistry, UCSF.
1993-present Professor and Chair, Division of Behavioral Sciences, Professionalism, and Ethics, Department of Preventive and Restorative Dental Sciences, School of Dentistry, UCSF.

Recent Honors
2005 Selected to Participate in the Science and Society Institute's Media and Policy Workshop
2007-09 Selected as a Sigma Xi (The Scientific Research Society) Distinguished Lecturer

B. Selected peer-reviewed publications (in chronological order).

12. Gerbert, B; Maurer, T; Berger, T; Pantilat, S; McPhee, S; Bronstone, A; Caspers, N. Primary care physicians as gatekeepers in managed care: Primary care physicians' and dermatologists' skills at secondary prevention of skin cancer. Archives of Dermatology, 1996, 132, 1030-1038.


15. Gerbert, B; Wolff, M; Tschann, J; McPhee, S; Caspers, N; Martin, M; Saulovich, A. Activating patients to practice skin cancer prevention: Response to mailed materials from physicians versus HMOs. American Journal of Preventive Medicine, 1997, 13, 214-220.


19. Gerbert, B; Bronstone, A; Pantilat, S; McPhee, S; Allerton, M; Moe, J. When asked, patients tell: Disclosure of sensitive health-risk behaviors. Medical Care, 1999, 37, (1), 104-111.

20. Gerbert, B; Brown, B; Volberding, P; Cooke, M; Caspers, N; Love, C; Bronstone, A. Physicians' transmission prevention assessment and counseling practices with their HIV positive patients. AIDS Education and Prevention, 1999, 11, (4), 307-320.


22. Gerbert, B; Caspers, N; Bronstone, A; Moe, J; Abercrombie, P. A qualitative analysis of how physicians with expertise in domestic violence approach the identification of victims. Annals of Internal Medicine, 1999, 131, 578-584.


24. Gerbert, B; Moe, J; Caspers, N; Saibor, P; Feldman, M; Herzig, K; Bronstone, A. Simplifying physicians' response to domestic violence. Western Journal of Medicine, 2000, 172, 329-331.

25. Gerbert, B; Bronstone, A; Clanon, K; Abercrombie, P; Bangsberg, D. Combination antiretroviral therapy: Health care providers confront emerging dilemmas. AIDS Care, 2000, 12, 409-421.


29. Gerbert, B; Moe, J; Saag, MS; Benson, CA; Jacobsen, DM; Feriallos, A; Hill, ME; Bronstone, A; Caspers, N; Volberding, P. Toward a definition of HIV expertise: A survey of experienced HIV physicians. AIDS Patient Care and STD's, 2001, 15, 321-330.

30. Gerbert, B; Bronstone, A; Maurer, T; Berger, T; McPhee, S; Caspers, N. The effectiveness of an Internet-based tutorial in improving primary care physicians' skin cancer triage skills. Journal of Cancer Educ, 2002, 17, 7-11.


32. Gerbert, B; Gansky, S; Tang, J; McPhee, S; Carlton, R; Herzig, K; Danley, D; Caspers, N. Domestic violence compared to other health risks: A survey of physicians' beliefs and behaviors. American Journal of Preventive Medicine, 2002, 23, 82-90.

34. Gerbert, B; Berg-Smith, S; Mancuso, M; Caspers, N; McPhee, S; Null, D; Wofsy, J. Using innovative video
doctor technology in primary care to deliver brief smoking and alcohol intervention. Health Promotion
35. Gerbert, B; Berg-Smith, S; Mancuso, M; Caspers, N; Danley, D; Herzig, K. Video study of physician
36. Gerbert, B; Herzig, K; Marecek, L; Salber, P. Physicians as Violence Prevention Activists—A Qualitative
37. Danley, D; Gansky, S; Chow, D; Gerbert, B. Preparing dental students to recognize and respond to
67-73.
38. Gerbert, B; Caspers, N; Moe, J; Clanon, K; Abercrombie, P. The mysteries and demands of HIV care:
Qualitative analyses of HIV specialists' views on their expertise. AIDS Care, 2004, 16, (3), 363-376.
39. Gerbert, B; Danley, D; Herzig, K; Clanon, K; Ciccarone, D; Gilbert, P; Allerton, M. Reframing “Prevention
With Positives”: Incorporating Counseling Techniques That Improve the Health of HIV-positive Patients.
AIDS Patient Care and STDs, 2006, 20, (1), 19-29.
40. Herzig, K; Danley, D; Jackson, R; Petersen, R; Chamberlain, L; Gerbert, B. Seizing the Nine-Month
Moment: Addressing Behavioral Risks in Prenatal Patients. Patient Education and Counseling, 2006, 61,
228-235.
41. Kwon Hsieh, N; Herzig, K; Gansky, S; Danley, D; Gerbert, B. Changing Dentists’ Knowledge, Attitudes and
Behavior regarding Domestic Violence through an Interactive Multimedia Tutorial. Journal of the American
42. Herzig, K; Huyhn, D; Gilbert, P; Danley, D; Jackson, R; Gerbert, B. Comparing Prenatal Providers’
Approaches to Four Different Risks: Alcohol, Tobacco, Drugs, and Domestic Violence. Women and Health,
in press.

C. Research Support.

Ongoing Research Support

RO1 DA 15016 Gerbert (PI) 9/30/02 – 6/30/07
National Institute on Drug Abuse
Positive Choice: Prevention for Positive Health
The major goal of this project is to determine whether the Positive Choice intervention reduces sexual risk
behaviors and the abuse of drugs or alcohol. HIV-positive patients at two public hospital-based HIV-
outpatient clinics who report substance abuse and/or unprotected sex will be enrolled in a randomized,
controlled trial. Patients in the intervention group will receive a brief motivational intervention and their
providers will receive a cueing sheet at baseline and again at 3 months.

2 RO1 DA 15597 Gerbert (PI) 7/01/03 – 6/30/07
National Institute on Drug Abuse
Prevention for Prenatal Health
The major goal of this project is to develop and test an intervention for pregnant women to 1) improve the
frequency and quality of patient-provider discussions regarding risks related to smoking, alcohol, illicit drug
use, and intimate partner violence; and 2) reduce women's prenatal risks related to these topics.

Completed Research Project

P60 DE 13058 Damsky (PI) 8/01/99-7/31/05
National Institute on Dental and Craniofacial Research
Improving Oral Health Care Professionals' Response to Domestic Violence
The major goal of this project is to develop and test the effectiveness of an educational and behavioral-
change intervention for oral health care professionals regarding identifying and assisting victims of domestic
violence. This project is one of many in a center grant. Dr. Gerbert has oversight over this entire project.
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME: Barbara Heckman
POSITION TITLE: Associate Clinical Professor

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temple University, Philadelphia</td>
<td>Certif.</td>
<td>1968</td>
<td>Dental Hygiene</td>
</tr>
<tr>
<td>Temple University, Philadelphia</td>
<td>BS</td>
<td>1970</td>
<td>Education</td>
</tr>
<tr>
<td>California State University, San Francisco</td>
<td>MS</td>
<td>1982</td>
<td>Health Sciences</td>
</tr>
</tbody>
</table>

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

A. Positions and Honors.

Positions and Employment

1970-72  Instructor, School of Dental Hygiene, Temple University, School of Dentistry, Philadelphia, PA
1973-74  Lecturer, Department of Dental Hygiene, University of Hawaii, School of Nursing, Honolulu, HI
1977    Instructor, Dental Hygiene Department, Diablo Valley College, Pleasant Hill, CA
1978    Instructor, Dental Hygiene Department, Chabot College, Hayward, CA
1978-81 Lecturer, Department of Periodontology, UCSF School of Dentistry, San Francisco, CA
1981-83 Assistant Clinical Professor, Department of Periodontology, UCSF School of Dentistry, San Francisco, CA
1983-85 Assistant Clinical Professor, Department of Dental Public Health and Hygiene, UCSF School of Dentistry, San Francisco, CA
1983-90  Dental Hygiene Clinic Director, UCSF School of Dentistry, San Francisco, CA
1985-90  Associate Clinical Professor, Department of Dental Public Health and Hygiene, UCSF School of Dentistry, San Francisco, CA
1990-92  Adjunct Associate Clinical Professor, Department of Dental Public Health and Hygiene, UCSF School of Dentistry, San Francisco, CA
1990-2003 Instructor, Dental Hygiene Department, Diablo Valley College
1992-2002 Dental Hygiene Program Coordinator, Diablo Valley College
2004-now Dental Hygienist Tobacco Cessation Counseling Specialist, Department of Preventive and Restorative Dental Sciences, UCSF School of Dentistry
2004-now Associate Clinical Professor, Department of Preventive and Restorative Dental Sciences, UCSF School of Dentistry, San Francisco, CA

Other Experience and Professional Memberships

1982-83  UCSF Representative on Educators' Panel to California State Board Examination Orientation Committee
1984-86  Co-chairman, RDH Examiners Orientation Committee appointed by the Committee on Dental Auxiliaries & California State Board of Dental Examiners
1987-90  RDH Examination Calibration/Orientation Subcommittee of the Committee on Dental Auxiliaries under authority of California Board of Dental Examiners
1999-02  California RDH Examination Subcommittee of the Committee on Dental Auxiliaries Community College Representative/Educator Member
2003    UCSF Smoking Cessation Leadership Center Task Force with Dental Hygienists
2004-06  American Dental Hygienists' Association Tobacco Cessation Committee
2004-now National Advisory Board Member for study Translating Clinical Guidelines for Treatment of Tobacco Use and Dependence in the Dental Setting

Honors
1980    Sigma Phi Alpha (National Dental Hygiene Honor Society)
1981    UCSF School of Dentistry Excellence in Teaching Award From Dental Hygiene Class of 1982
1982    UCSF School of Dentistry Excellence in Teaching Award From Dental Hygiene Class of 1982
1983    UCSF School of Dentistry Excellence in Teaching Award From Dental Hygiene Class of 1983
1984    UCSF School of Dentistry Excellence in Teaching Award From Dental Hygiene Class of 1984
1988    UCSF School of Dentistry Excellence in Teaching Award From Dental Hygiene Class of 1988
1989    UCSF School of Dentistry Excellence in Teaching Award From Dental Hygiene Class of 1989
1989    UCSF Department of Dental Public Health and Hygiene: Outstanding Teacher of the Year
1990    UCSF School of Dentistry Excellence in Teaching Award From Dental Hygiene Class of 1990
1996    Mount Diablo Dental Hygiene Society Award for Outstanding Dedication to the Diablo Valley College Dental Hygiene Class of 1996

B. Selected peer-reviewed publications (in chronological order).
(Publications selected from 25 peer-reviewed publications.)


BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Mehran Hosaini-Zadeh, DMD

POSITION TITLE
Health Sciences Assistant Clinical Professor
Department of Oral and Maxillofacial Surgery
University of California, San Francisco

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Oregon State University, Corvallis, OR</td>
<td>DMD</td>
<td>1984-87</td>
<td>Dentistry</td>
</tr>
<tr>
<td>Oregon Health Sciences U., Portland, OR</td>
<td>GPR,PGY-1</td>
<td>1991-92</td>
<td>Dentistry</td>
</tr>
<tr>
<td>St. Mary's Hospital, Waterbury, CT</td>
<td>GPR, PGY-2</td>
<td>1992-93</td>
<td>Dentistry</td>
</tr>
<tr>
<td>St. Francis Hospital, Hartford, CT</td>
<td>Intern</td>
<td>1993-94</td>
<td>Oral &amp; Maxillofacial Surg.</td>
</tr>
<tr>
<td>Brooklyn Hospital Center</td>
<td>Resident</td>
<td>1994-98</td>
<td>Oral &amp; Maxillofacial Surg.</td>
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</table>

A. Positions and Honors

Positions/Employment
7/98-7/00 Clinical Instructor, Oral & Maxillofacial Surgery, Medical College of Pennsylvania (MPC)/Hahnemann School of Medicine Philadelphia, PA
7/00-3/01 Assistant Professor, Oral & Maxillofacial Surgery, MCP/Hahnemann School of Medicine
7/00-3/01 Director, OMFS Residency Program, MCP/Hahnemann School of Medicine
3/01-6/05 Private Practice with Dr. Michael D. Ryan, P.C., Oral & Maxillofacial Surgery, Upland, PA
9/05-Now Health Science Assistant Clinical Professor, Department of Oral & Maxillofacial Surgery, University of California San Francisco, San Francisco, CA

Honors and Awards:
5/2003 Dental Society of Chester County and Delaware County Professional Award

B. Publications (in chronological order).

Peer-reviewed:

Invited Article:
Am 10:141-155, 1998

Other Publication:

C. Research Support.

List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.
M H-Z CV comment: "I am a member of the research team, as the primary or co-investigator, for three projects submitted to the Committee on Human Research. Two of these studies have received CHR approval."
Please add information about the projects you mentioned, if you feel it is appropriate.

Example format:

5 R01 HL 00000-07 Baker (PI) 4/1/01 – 3/31/04
NIH/NHLBI
Ion Transport in Lungs
The major goal of this project is to study chloride and sodium transport in normal and diseased lungs.
Role: Co-Investigator
BIOGRAFICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Susan Hyde

POSITION TITLE
Assistant Adjunct Professor

eRA COMMONS USER NAME

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
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<th>DEGREE (if applicable)</th>
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<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>University of British Columbia, BC</td>
<td>B.Sc</td>
<td>1977-82</td>
<td>Microbiology</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>D.D.S.</td>
<td>1988-92</td>
<td></td>
</tr>
<tr>
<td>University of California, Berkeley</td>
<td>M.P.H.</td>
<td>1997-98</td>
<td>Epidemiology</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>Residency</td>
<td>1998-03</td>
<td>Dental Public Health</td>
</tr>
<tr>
<td>University of California, Berkeley</td>
<td>Ph.D.</td>
<td>1999-03</td>
<td>Epidemiology</td>
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<tr>
<td>University of California, San Francisco</td>
<td>Postdoc</td>
<td>2003-05</td>
<td>Geriatrics</td>
</tr>
</tbody>
</table>

Positions and Employment

1983-85  Research Assistant, University of Southern California, Los Angeles, CA
1986-88  Research Associate, Triton Biosciences, Alameda, CA
1992-96  Dentist, Private Practice, Foster City, CA
1999-02  Consultant, Dental Program, Department of Human Services, San Francisco, CA
2002-    Assistant Adjunct Professor, School of Dentistry, University of California, San Francisco

Other Experience and Professional Memberships

1992-06  American Dental Association
1992-06  American Academy of Oral Medicine
1992-06  Omicron Kappa Upsilon National Dental Honor Society
1992-06  UCSF School of Dentistry Alumni
1998-06  American Association of Public Health Dentistry
1998-06  American Public Health Association
1998-06  International Association for Dental Research
2004-06  American Society for Geriatric Dentistry
2006    American Dental Education Association
2004-06  Ad hoc Referee, Journal of Community Dentistry and Oral Epidemiology
2004-06  Ad hoc Referee, Journal of Adolescent Health
2003-06  Member, Curriculum Development Committee: Scientific Methods in Clinical Dentistry
2003-06  Member, Curriculum Development Committee: Northern California Geriatric Education Center
2005-06  Member, Curriculum Development Committee: Interprofessional Education Task Force
2006    Member, Advisory Committee: Masters in Dental Hygiene
2006    Member, Campus Advisory Committee: Academic Geriatric Resource Center

Honors

1992    Omicron Kappa Upsilon National Dental Honor Society: Induction
1992    American Association of Women Dentists: Outstanding Achievement
1998    National Institute of Dental and Craniofacial Research: Dentist Scientist Award
2000    PAES Welfare to Work Dental Program: Outstanding Excellence
2004    American Association of Public Health Dentistry: Leverett Graduate Student Merit Award
Principal Investigator/Program Director (Last, First, Middle):  Weintraub, Jane

Ongoing Research Support

1. U54 DE14251-01 Weintraub, JA (PI)  9/30/01–07/31/08
   NIH/NIDCR
   Center to Address Disparities in Children’s Oral Health (CANDO)
   Center Goal: To understand, prevent, and reduce oral health disparities among young children.
   Role: Project Director of Project 7: This study investigates Hispanic caregiver’s acceptability of and preferences for interventions directed towards early childhood caries.
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Janice S. Lee, DDS, MD, MS

POSITION TITLE
Assistant Professor of Clinical Oral and Maxillofacial Surgery

eRA COMMONS USER NAME
janilee

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>Andrews University, Berrien Springs, MI</td>
<td>NA</td>
<td>1987-1990</td>
<td>Biology</td>
</tr>
<tr>
<td>UCLA, School of Dentistry, Los Angeles, CA</td>
<td>DDS</td>
<td>1990-1994</td>
<td>Dentistry</td>
</tr>
<tr>
<td>Harvard Medical School, Boston, MA</td>
<td>MD</td>
<td>1996-1997</td>
<td>Medicine</td>
</tr>
<tr>
<td>UCLA, Graduate Division, Los Angeles, CA</td>
<td>MS</td>
<td>1993-1998</td>
<td>Oral Biology</td>
</tr>
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</table>

A. Positions and Honors.

Positions/Employment
1994-1999  Resident, Oral & Maxillofacial Surgery, Massachusetts General Hospital, Boston, MA
1999-2000  Chief Resident, Oral & Maxillofacial Surgery, Massachusetts General Hospital, Boston, MA
2000-2002  Translational Research Fellow, Craniofacial & Skeletal Diseases Branch, NIDCR/NIH, Bethesda, MD
2000-2002  Medical Staff, Warren G. Magnuson Clinical Center, NIH, Bethesda, MD
2002-present Assistant Professor, Dept of Oral & Maxillofacial Surgery, UCSF, San Francisco, CA

Awards/Honors
2001       NIDCR DIR Postdoctoral Award for Research
2001       NIH Fellows Award for Research Excellence 2002
2002       Faculty Educator Development Award, Oral & Maxillofacial Surgery Foundation/American Association of Oral & Maxillofacial Surgery
2002       UCSF School of Dentistry Outstanding Teacher of the Year Award
2003       UCSF School of Dentistry, Dean’s Creativity Award
2003       UCSF T35 Research Mentorship Program, Lee Akin (UCSF 2006)
2003       NIH Loan Repayment Program Award
2004       UCSF T35 Research Mentorship Program, John Malan (UCSF 2007)
2005       NIH Loan Repayment Program Award
2005       UCSF Academic Senate Travel Grant Award
2006       Coro Leadership Curriculum Honor
2006       NIH Loan Repayment Program Award
2006       UCSF T35 Research Mentorship Program, Todd Fairbanks (UCSF 2009)
3007       Omicron Kappa Upsilon, National Dental Honor Society

B. Selected peer-reviewed publications (in chronological order).


Lee JS, Gonzalez M, Chuang SK, Perrott DH. Comparison of Methohexital and Propofol Use in Outpatient Procedures in Oral & Maxillofacial Surgery. JOMS (submitted)

Oka H, Pogrel MA, Dowd C, Lee JS. Treatment of Arteriovenous Malformations of the Mandible with Resection and Immediate Reconstruction. JOMS (accepted)


C. Research Support.

Completed Research Support

Academic Senate Grant (Huang) 07/01/05-06/30/06
UCSF, Academic Senate
Facial reconstruction and 3D imaging

The major goal of this study is to assess the short- and long-term stability of facial skeletal reconstruction using 3D imaging via cone-beam technology and to compare 3D imaging with conventional 2D plain films.

Role: Co-Investigator

UCSF DDCF #16 (Lee) 01/01/03-12/31/04
Dean’s Creativity Fund, School of Dentistry
Skeletal regeneration and stem cells

The goal of this study was to correlate the bone regeneration seen on quantitative CT after rib graft harvesting with bone marrow stromal/stem cell colony forming efficiency and differentiation capability.

Role: Principal Investigator
Faculty Educator Development Award (Lee)  10/1/02-10/1/05
American Association of Oral & Maxillofacial Surgeons
Stem cells of dental origin for bone regeneration
This study evaluated the bone forming capacity of stem cells from teeth from pigs.
Role: Principal Investigator
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Peter M. Loomer

POSITION TITLE
Associate Professor of Clinical Periodontology

ERA COMMONS USER NAME

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Toronto, Toronto, Canada</td>
<td>BSc</td>
<td>1984</td>
<td>Medicine</td>
</tr>
<tr>
<td>University of Toronto, Toronto, Canada</td>
<td>DDS</td>
<td>1988</td>
<td>Dentistry</td>
</tr>
<tr>
<td>University of Toronto, Toronto, Canada</td>
<td>Certificate</td>
<td>1993</td>
<td>Periodontics</td>
</tr>
<tr>
<td>University of Toronto, Toronto, Canada</td>
<td>PhD</td>
<td>1997</td>
<td>Cell Biology</td>
</tr>
</tbody>
</table>

A. Positions and Honors.

Positions and Employment
1993-1996  Associate in Dentistry, Department of Periodontics, Faculty of Dentistry, University of Toronto, Toronto, Canada.
1996-1998  Assistant Professor, Division of Periodontics and Dental Hygiene, Department of Oral Biological and Medical Sciences, Faculty of Dentistry, University of British Columbia, Vancouver, Canada.
1998-1999  Visiting Assistant Professor, Division of Periodontology, Department of Stomatology, School of Dentistry, University of California, San Francisco.
1999-2005  Assistant Professor of Clinical Periodontology, Division of Periodontology, Department of Orofacial Sciences, School of Dentistry, University of California, San Francisco.
2005-prsnt  Associate Professor of Clinical Periodontology, Division of Periodontology, Department of Orofacial Sciences, School of Dentistry, University of California, San Francisco.

Other Experience and Professional Memberships
1991-prsnt  Member, American Academy of Periodontology
1992-prsnt  Member, International Association of Dental Research
1993-prsnt  Member, American Society of Microbiology
1998-prsnt  Director, Predoctoral Program in Periodontology
2002-prsnt  ViceChair, Division of Periodontology
2005-prsnt  Chair, Faculty Council School of Dentistry, University of California, San Francisco, CA
2006-prsnt  Secretary, American Dental Education Association Periodontology Section

Honors
1993-1996  Medical Research Council of Canada Medical Sciences Fellowship
1996  American Academy of Periodontology Young Investigator Fellowship
1998-1999  UCSF School of Dentistry Predoctoral DDS Clinical Instruction Award
1999-2000  UCSF School of Dentistry Predoctoral DDS Clinical Instruction Award
1999-2001  Xi Psi Phi Fraternity Teaching Recognition Award
2000-2001  UCSF Department of Stomatology Outstanding Teacher Award
2001  UCSF Dr. Robert Hutson Award
2003  American College of Dentists Award
2005  Fellow, American Dental Education Association Leadership Institute
2005  Pierre Fauchard Society Award
2005  Diplomate, American Board of Periodontology
B. Selected peer-reviewed publications.


C. Research Support.

Ongoing Research Support
T32 DE-07306 Marshall (PI) 7/01/05-7/01/06
Comprehensive Oral Health Training Program
The major goal of this program is to support the research training of graduate students, faculty and predoctoral students in oral health research.
Role: Co-Investigator/Associate Director

1R01DE014868-01A2 Gill (PI) 8/1/04-7/31/07
NIH/NIDCR/TIGR
Community Genomics of the Human Oral Microbiome
The goal of this project is to evaluate the oral microflora of the periodontium, from health to severe disease
Role: Co-Investigator

R01 DE11289 Tomsia (PI) 7/1/05-6/30/10
NIH/NIDCR
Graded Bioactive Coatings for Implants
The major goal of this project is to develop strongly adherent bioactive glass coatings on titanium alloy implants.
Role: Co-investigator

Sunstar Butler, Inc Armitage (PI) 8/1/05-7/31/06
Clinical Trial
Clinical Trial of Treatment with Perioclione Gel for Adults with Periodontal Disease
Role: Co-Investigator

Completed Research Support

Canadian Space Agency Loomer (PI) 7/01/96-6/30/00
Canadian Space Agency
Effect of Microgravity on Osteogenesis
The goal of this study was to investigate the gene expression of osteoblast cells exposed to a microgravity environment on a Space Shuttle mission.
Role: PI

Milestone Scientific, Inc. Loomer (PI) 7/01/99-6/30/01
The efficacy of a computer-delivered device for local anesthesia.
The goal of this project was to compare the efficacy and pain of computerized local anesthesia delivery.
Role: PI

Shofu Inc. Ryder (PI) 7/01/01-6/30/02
A training and calibration study to examine the efficacy of Norian SRS bone graft material in the surgical treatment of periodontal osseous defects.
The goal of this study was to train and calibrate the usage of Norian SRS bone graft in treatment of periodontal osseous defects.
Role: Co-Investigator

1P60DE013058-01 Damsky (PI) 7/01/02-06/30/04
NIDCR
Comprehensive Oral Health Center for Discovery
New Strategies for Enhancing Tissue Integrity and Repair. Project 6: "Effects of bisphosphonates and PTH on mandibular bone density"
The goal of this project was to evaluate the effects of adjunctive bisphosphonate therapy in the treatment of periodontal disease.

UCSF Instructional Media Grant Program 7/01/04-7/01/05
2004-present
Multimedia Education Modules for the Diagnosis and Classification of Periodontal Diseases
The major goal of this project is the development of a multimedia instructional module for students and dental faculty regarding the diagnosis and classification of Periodontal Diseases
Role: PI
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2
Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Macera, Elizabeth V.

POSITION TITLE
Assistant Clinical Professor

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Los Angeles County-USC Medical Center School of Nursing</td>
<td>Diploma</td>
<td>1972</td>
<td>Nursing</td>
</tr>
<tr>
<td>California State University, Sacramento</td>
<td>BS</td>
<td>1978</td>
<td>Nursing</td>
</tr>
<tr>
<td>Sonoma State University</td>
<td>MS</td>
<td>1988</td>
<td>Family Nurse Practitioner, Geriatric Nursing</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>PhD</td>
<td>2005</td>
<td></td>
</tr>
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</table>

A. Positions and Honors.

Positions and Employment

1972-1973 Los Angeles County-USC Medical Center, Staff Nurse
1974-1989 Highland General Hospital, Oakland California, Staff nurse & nurse manager
1988-1989 Bay Area Addiction Research and Treatment, San Francisco, California, Nurse Practitioner
1989-now Kaiser-Permanente Northern California, Nurse Practitioner
1997-now University of California, San Francisco, Assistant Clinical Professor, Gerontological Nursing Program

Other Experience and Professional Memberships

1989-now California Nurses Association
1993-now Sigma Theta Tau – Alpha Eta and Lambda Gamma Chapters
2002-now National Conference of Geriatric Nurse Practitioners
2000-now American Nurses Association-California
2003-now American Geriatrics Society
2002-now Gerontological Society of America
2002-now Association for Gerontology in Higher Education
2004-now National Organization of Nurse Practitioner Faculties
2006-now American Psychiatric Nurses Association

Honors

1996 Gracious and Professional Service Award – Kaiser-Permanente, Hayward, CA
2000 UCSF Alumni Association Scholarship
2001 UCSF Alumni Association Scholarship
2001 Women Leaders Conference Scholarship
2002 Alpha Eta Chapter Sigma Theta Tau Research Grant
2003 Graduate Education Fee Scholarship
2004 Northern California Geriatric Education Center Geriatrics Faculty Scholar
2003 John A. Hartford Center of Geriatric Nursing Excellence Best Student Paper of the Year
2005 California Council on Gerontology and Geriatrics Conference Scholarship
Selected Presentations
4. Meeting of the Gerontological Society of America November 2002, Boston, Massachusetts Poster presentation- Scholarship Grant for Support to Future Leaders in Gerontological Nursing
5. Qualitative Health Research Conference. February 2003, Guadalajara, Mexico Connections Count: Relationships and Successful Aging

B. Selected peer-reviewed publication.

Publications

C. Research Support

Completed Research Support
2002 Bennett JA, Wallhagen ML, Kayser-Jones J, Harrington C, Macera E.
2002 Sigma Theta Tau Alpha Eta Chapter Research Grant
2006 UCSF Faculty Development Award
2006 American Academy of Nurse Practitioners Foundation-Brilston-Myers Squibb NP Mental Health Grant

Scholarships to Support Future Leaders in Geriatric Advanced Practice Nursing; Funded by Hartford Foundation $86,814
For dissertation research Social Relationships and Subjective Well-being $1250
For The Meaning of Intimacy to Older Adults in an Assisted Living Facility $24,788
Perceived Competency among Nurse Practitioners in Providing Mental Health Care for Older Adults $4,000
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2. Follow the sample format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Mackin, Lynda A.

POSITION TITLE
Health Science Associate Clinical Professor

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>California State University, Fresno</td>
<td>BSN</td>
<td>1985</td>
<td>Nursing</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>MS</td>
<td>1991</td>
<td>Nursing</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>Post MS</td>
<td>1994</td>
<td>Nursing/ Nurse Practitioner</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>PhD</td>
<td>Expected graduation June 2007</td>
<td>Nursing</td>
</tr>
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</table>

NOTE: The Biographical Sketch may not exceed four pages. Items A and B (together) may not exceed two of the four-page limit. Follow the formats and instructions on the attached sample.

A. Positions and Honors.
Positions and Employment

1985-1999: Staff Nurse, II, III; Seton Medical Center, Daly City, CA
1994-2000: Nurse Practitioner, Private Practice, Primary Care; Daly City, CA
1997- Assistant Clinical Professor; University of California, San Francisco, School of Nursing
1999-2005 Nurse Practitioner, Private Practice, Primary Care; San Carlos, CA
2005-2006 Sequoia Primary Care Group, Primary Care; San Carlos, CA
2007- Sequoia Medical Group, primary Care; Belmont, CA

B. Selected peer-reviewed publications (in chronological order).


C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

Completed:
1. Geriatric Nursing Education: Enhancing Gerontology/Geriatric Nursing Education for Undergraduate and Advanced Practice Nursing Programs (1/2002-12/2004); P. l.
Awarded by John A. Hartford Foundation of New York, administered by the American Association for Colleges of Nursing
Goal: To provide an extend-course of study designed specifically for RNs working in long-term care. A mentored model coupled with a close partnership with student's employer is used to assure academic success of participants.

2. Instructional Technology Grant (7/2002-9/2003); P.l.
"Cyber-Mentoring in Gerontological Nursing: Meeting the Needs of our Preceptors"
Awarded by University of California, San Francisco Library
Goal: Creation of a web-based program that offers a continuing education module on mentoring and links to instructional resources for gerontological nursing clinical preceptors.
**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel in the order listed for Form Page 2. Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruth E. Malone</td>
<td>Professor</td>
</tr>
</tbody>
</table>

**EDUCATION/TRAINING** (*Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.*)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Oregon College, Ashland, OR</td>
<td>A.S., Highest Honors</td>
<td>1977</td>
<td>Nursing</td>
</tr>
<tr>
<td>University of California, San Francisco, CA</td>
<td>B.S.N., Highest Honors</td>
<td>1989</td>
<td>Nursing</td>
</tr>
<tr>
<td>University of California, San Francisco, CA</td>
<td>MSN</td>
<td>1991</td>
<td>Community Health/Cross-Cultural Nursing</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>Ph.D.</td>
<td>1995</td>
<td>Nursing</td>
</tr>
<tr>
<td>Institute for Health Policy Studies,</td>
<td>Postdoctoral Fellow</td>
<td>1995-97</td>
<td>Health Policy/ Health Services Research</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
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</table>

**A. Positions and Honors**

1995-1997 Postdoctoral Fellow, Institute for Health Policy Studies, UCSF
1997-2001 Assistant Adjunct Professor, Department of Physiological Nursing, UCSF
1997-now Core Faculty, Institute for Health Policy Studies, School of Medicine, UCSF
2001-2002 Assistant Adjunct Professor, Department of Social & Behavioral Sciences, School of Nursing, UCSF
2002-2004 Associate Director, Center for Tobacco Control Research & Education, UCSF
2002-2006 Associate Professor & Director, Health Policy Program, Department of Social & Behavioral Sciences, School of Nursing, UCSF
2006-now Professor and Vice Chair, Department of Social & Behavioral Sciences, School of Nursing, UCSF

**Honors (selected since 2004)**

2004 Research Award, National Cancer Institute, Grant # CA109153
2004 Selected Fellow, American Academy of Nursing
2004 Nominated for Distinction in Teaching Award, UCSF Academic Senate.
2004 Nominated for Outstanding Faculty Mentorship Award, UCSF
2005 Nominated for Postdoctoral Scholar's Association Annual Outstanding Mentorship Award, UCSF
2006 Nominated for Distinction in Teaching Award, UCSF Academic Senate
2006 Research Award, National Cancer Institute, Grant # CA120138
2006 Sybil Jacobs Award for Outstanding Use of Tobacco Industry Documents, American Legacy Foundation
2007 Fulbright Distinguished Scholar Award for research in United Kingdom

**Reviewer for:** Tobacco Control, American Journal of Public Health, Journal of Health Politics, Policy & Law, JAMA, Health Services Research, Social Studies of Science, Social Science and Medicine, Journal
of Epidemiology and Community Health, British Medical Journal, Nicotine and Tobacco Research, Health Affairs, Research in Nursing and Health, Nursing inquiry, others; Guest Editor, Tobacco Control, Australian tobacco industry documents supplement; research in developing countries supplement Editorial Advisory Board; Tobacco Control

B. Selected peer-reviewed publications (in chronological order).
doi:10.1093/eurpub/ekz241*


ACTIVE RESEARCH SUPPORT
R01 CA109153 (Malone) 7/1/04-6/30/09
National Cancer Institute 25%
Tobacco Industry Influence on the U.S. Military. $2.1 million / 5 yrs
The major goals of this study are to appraise the tobacco industry’s influence on the U.S. military by analyzing internal tobacco industry documents, conducting a content analysis of policies and interviews with policy leaders, and developing a set of case studies of tobacco control policy implementation within the military.

R01 CA120138 (Malone) 4/1/06-3/31/2011
National Cancer Institute 25%
The Tobacco Problem: Public Health Implications of Contested Frames $1.2 million/5 years
The goals of this project are to describe the tobacco industry’s corporate social responsibility initiatives and their implications for tobacco control.

16RT-0149 (Malone) 7/1/07-6/30/10.
California Tobacco-Related Disease Research Program 20%
Tobacco industry targeting of older persons. (co-PI J. Cataldo) $509,991/3 years
The goals of this project are to explore the tobacco industry’s interest in older smokers and how tobacco industry targeting strategies are perceived by older smokers.
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Grayson W. Marshall, Jr., DDS, MPH, PhD

POSITION TITLE
Professor

eRA COMMONS USER NAME
graymar

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>Virginia Polytechnic Inst, Blacksburg, VA</td>
<td>BS</td>
<td>1965</td>
<td>Metallurgical Eng</td>
</tr>
<tr>
<td>Northwestern University, Evanston, IL</td>
<td>PhD</td>
<td>1972</td>
<td>Materials Science</td>
</tr>
<tr>
<td>Northwestern University, Chicago, IL</td>
<td>Post-Doc</td>
<td>1973</td>
<td>Biological Materials</td>
</tr>
<tr>
<td>Northwestern University, Chicago, IL</td>
<td>DDS</td>
<td>1986</td>
<td>Dentistry</td>
</tr>
<tr>
<td>University of California, Berkeley</td>
<td>MPH</td>
<td>1992</td>
<td>Epidemiology</td>
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</tbody>
</table>

POSITIONS:

1973-87 Instructor-Professor, Biological Materials, Northwestern University, Chicago, IL
1981 Visiting Fellow, Dental Prosth., University of Melbourne, Victoria, Australia
1987-present Professor, Preventive and Restorative Dental Sciences, University of California, San Francisco, CA; (Vice Chair, 2005-)
1988-present Chair, Division of Biomaterials & Bioeng. (88-92 Biomaterials Science), UCSF
1988-92 NIH-NIDR Oral Biology and Medicine Study Section
1989-present UC Berkeley - UCSF Graduate Group in Bioengineering
1989-present Guest Scientist, Lawrence Berkeley Nat'l. Lab. & Lawrence Livermore Nat'l. Lab.
1990-present UCSF Graduate Group in Oral & Craniofacial Sciences (Chair, 2002-)
1992-96 Director, Clinical Research Unit, (Presidio CRU 92-95) Restorative Dentistry, UCSF
1996-2004 Director, NIH UCSF Institutional Dentist-Scientist Award & DSTD (DDS/PhD) Programs
2001-present Director, NIH UCSF Comprehensive Oral Health Research Training (COHORT)

HONORS: Alpha Sigma Mu (Metallurgy, 1964); Sigma Gamma Epsilon (Earth Sci, 1964); Fellow, AAAS (1966); W.P. Murphy Fellow (1966); Sigma Xi (Research, 1971); 1st Place, Chicago AADR Research Competition (1974); Omicron Kappa Upsilon (Dentistry, 1981); Fellow, Acad. Dent. Materials (1983); President, Acad. of Dental Materials (1991-93); UCSF Dental Research Lecturer Award (1993-94); Fellow, Amer. College of Dentists (1995); Fellow, Intern. College of Dentists (1996); Board of Directors, AADR (1996-98); President, IADR Dental Materials Group (1998-99); Assoc. Editor, JADA (2002-05); Editorial Board, Am J Dent (2004-)

B. Selected peer-reviewed publications (chronological order).


C. Research Support.

Active

R01 DE11289 (AP Tomsia)     7/1/00-6/30/05
NIH/NIDR
Bioactive Composite Coatings on Ti-based Implants
Role: Co-investigator

The major goals of this project are to develop strongly adherent bioactive hydroxyapatite coatings on titanium alloy implants.

P01 DE09859 (SJ Marshall)     8/1/96 - 6/30/07
NIH/NIDR
Characterization and Modification of Dental Hard Tissues
Role: Principal Investigator Project I; Co-Investigator Project II-IV

The major goals of the project are: Characterize the microstructure and microchemistry of dentin, cementum, and enamel using modern materials science analytical techniques. Dr. G. Marshall serves as PI of project I on the structure and properties of altered forms of dentin and cementum.

Complex Nanocomposites for Bone Regeneration  8/4/03-5/31/08 R01 DE015633-01 (AP Tomsia)
NIH/NIDCR
Role:Co-Investigator

This Biomedical Research Program grant seeks to develop and test new bone-inducing nanocomposites based on nanoapatite and hydrogels.

Dentin Structure, Demineralization and Remineralization
NIH/NIDCR
Role: Principal Investigator

This grant seeks to determine relationships of dentin structure and mechanisms of remineralization.

Pending

R01 DE13029 (S. Marshall)     8/1/98-7/31/2004 (renewal pending)
DEJ: Biomimetic Model for Material-Tissue Interfaces
Role: Co-Investigator

This grant evaluates the dentin-enamel junction structure and biomechanics including fracture resistance as a model of crack resistant bonded interfaces.

Recent

R01 DE11526 (G. Marshall)     9/30/95-6/30/02
NIH/NIDCR
Dentin Structure, Demineralization and Shrinkage
Role: Principal Investigator
This grant sought to determine structure property relationships demineralization kinetics of normal and altered forms of dentin.

R21 DE15413 (S. Habelitz) 8/1/03-7/31/05
NIH/NIDCR
Biomimetic Synthesis of an Enamel-Like Material
Role: Co-Investigator

This grant seeks to determine conditions for mineralization of oriented amelogenin protein assemblies on fluorapatite-glass composites to evaluate enamel-like mineralization.
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Howard Pinderhughes

POSITION TITLE
Associate Professor

ERA COMMONS USER NAME

EDUCATION/TRAINING. (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>University of California, Berkeley</td>
<td>B.A.</td>
<td>1984</td>
<td>Political Science</td>
</tr>
<tr>
<td>University of California, Berkeley</td>
<td>M.A.</td>
<td>1987</td>
<td>Sociology</td>
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<tr>
<td>University of California, Berkeley</td>
<td>PhD</td>
<td>1991</td>
<td>Sociology</td>
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</table>

A. Positions and Honors

Positions and Employment


HONORS

UCSF Martin Luther King Award, UCSF, 2000
Distinction in Teaching Award, UCSF, 2000
Oliver C. Cox Award for Best Book on Race, American Sociological Association – racial and Ethnic Minorities Section 1999
William T. Grant Faculty Scholars Award, William T. Grant Foundation, New York, NY, 1996-2001
AHCPR/Pew Health Policy Postdoctoral Fellowship, Institute for Health Policy Studies, University of California, San Francisco, 1993-1995
UC President's Postdoctoral Fellowship, University of California, 1991-1993
Chancellor's Affirmative Action Dissertation Year Fellowship, University of California, Berkeley, 1989-1990

B. Selected peer-reviewed publications (in chronological order)

BOOKS:


JOURNAL ARTICLES


2008 Pinderhughes, H and Shim, J. “The Role of Race in the Production of Health Inequality,” Social Science and Medicine, IN Press.

BOOK CHAPTERS:


GOVERNMENT REPORTS


C. Research Support

Ongoing Research Support

U49 CE000743-01 (Zimring)  9/15/05-9/14/10
CDC/UCB
Center on Culture, Immigration, and Violence Program Community Mobilization Plan

The Community Mobilization Plan (CMP) will coordinate the youth violence prevention efforts of the Asian Pacific Islander (API) and Latino communities in Oakland over five years.
Role: Co-Investigator

1ULI RR024131(McCune)  9/30/06-06/30/11
NIH
Community Engagement Program

The overall goal of the Community Engagement Program is to make major advances in the design and implementation of clinical and translational research that are focused on the direct and active engagement of our community.

COPC-CA-05-622 (Wortis)
US Dept of Housing & Urban Development

To promote and support community-university partnership activities that will improve the well-being of local communities with marked health disparities compared to the rest of the city.

Completed Research

2005-JI-FX-009 Pinderhuhges (PI)  08/01/05-07/31/07
Office of Juvenile Justice and Delinquency Program
Bay Area Youth Violence Prevention Network

The Bay Area Youth Violence Prevention Network will organize, staff and provide training and technical assistance for county, city and community based coalitions for violence prevention in San Francisco and Alameda Counties and to assist in the establishment of such networks and coalition jurisdictions seeking to organize one.
Role: Principal Investigator
96174596 Pinderhughes (PI)  07/01/96-06/30/03
Grant T. William Foundation
Understanding Adolescent Violence: The Meaning and Construction of Inner City Youth
To examine the meaning and construction of violence for inner city youth.
Role: PI

R49CCR903697DB Knudson(PI)  09/28/89-07/31/06
Move
An Examination of the MOVE (Men Overcoming Violence) Youth Program
To identify and test instruments to be used in an evaluation study of the MOVE adolescent batterer treatment program.
Role: Co-Investigator

6D09 HP 00326 Harrington (PI)  07/01/02-06/30/06
HRSA
Health Policy for Advanced Practice Nurses
The goal of this program is to address existing gaps in nursing education and practice expertise in the area of Health Policy.
Role: Co-Investigator
BIographical Sketch

Give the following information for the key personnel and collaborators. Begin with the principal investigator/program director. Photocopy this page for each person.

Name: Michael Anthony Pogrel
Position Title: Professor and Chairman, Dept. of Oral and Maxillofacial Surgery

Education (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training)

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Degree</th>
<th>Year Conferred</th>
<th>Field of Study</th>
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<tbody>
<tr>
<td>Liverpool University School of Dentistry</td>
<td>BDS</td>
<td>1967</td>
<td>Dentistry</td>
</tr>
<tr>
<td>Royal College of Surgeons of England</td>
<td>FDS, RCS</td>
<td>1974</td>
<td>Oral Surgery</td>
</tr>
<tr>
<td>Aberdeen University School of Medicine</td>
<td>MB, ChB</td>
<td>1974</td>
<td>Medicine</td>
</tr>
<tr>
<td>Royal College of Surgeons of Edinburgh</td>
<td>FRCS</td>
<td>1985</td>
<td>General Surg/OMFS</td>
</tr>
</tbody>
</table>

Research and Professional Experience. Conclude with present position. List in chronological order, previous employment, experience, and honors. Key personnel include the principal investigator and any other individuals who participate in the scientific development or execution of the project. Key personnel typically include all individuals with doctoral or other professional degrees, but in some projects will include individuals at the masters or baccalaureate level provided they contribute in a substantive way to the scientific development or execution of the project. Include present membership on any Federal Government advisory committee. List in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. Do not exceed two pages.

Experience
1976: Exchange Fellow, Oral Surgery and ENT Units, Free University of Amsterdam, The Netherlands.
1977-78: Exchange Senior Resident, Oral Surgery and Plastic Surgery Units, Jackson Memorial Hospital, and Veterans Administration Hospital, Miami, Florida.
1979-84: Consultant Oral and Maxillofacial Surgeon, Peterborough District Health Authority and King's Lynn District Health Authority (England).
1983-1990: Assistant Professor, Dept. of Oral & Maxillofacial Surgery, UCSF.
1983-present: Attending Oral & Maxillofacial Surgeon, Moffitt Hospital, UCSF and San Francisco General Hospital.
1983-present: Consultant Oral & Maxillofacial Surgeon, VA Hospital, San Francisco, CA.
1983-1995: Acting Chairman, Department of Hospital Dentistry, Moffitt Hospital, UCSF.
1984-present: Assistant Chief of Oral & Maxillofacial Surgery, S.F. G.H.
1987-present: Attending Oral and Maxillofacial Surgeon, Mount Zion Hospital.
1987-present: Consultant Oral and Maxillofacial Surgeon, David Grant Hospital, Travis Air Force Base, California.
1989-present: Director of Oral & Maxillofacial Surgery Residency Training Program, UCSF.
1990-1994: Associate Professor, Department of Oral & Maxillofacial Surgery, UCSF.
1990-1994: Associate Professor, Department of Dermatology, School of Medicine, UCSF.
1994-present: Professor, Department of Oral and Maxillofacial Surgery, UCSF.
1994-present: Chair, Department of Oral and Maxillofacial Surgery, UCSF.
1994-present: Adjunct Professor, Department of Surgery, Division of Plastic Surgery, UCSF School of Medicine.
1994-present: Director, Hospital Affairs, UCSF School of Dentistry.

Honors
- External Examiner, University of Singapore, School of Dentistry, 1998.
- Visiting Professor, Department of Oral and Maxillofacial Surgery, University of Adelaide, South Australia, July 2000.
- Van Der Kwast Lecturer, Free University of Amsterdam, The Netherlands, December 2002.
- Elmer Bear Memorial Lecturer, Richmond, Virginia, November 2003.
- Chalmers Lyons Lecturer, Detroit, Michigan, March 2004.

Selected Articles, (refereed journals)


Principal Investigator/Program Director (Last, First, Middle):

BIOGRAFICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Howard Pollick

POSITION TITLE
Clinical Professor

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental School, University of Manchester, England</td>
<td>BDS</td>
<td>1967</td>
<td>Dentistry</td>
</tr>
<tr>
<td>UC Berkeley, School of Public Health</td>
<td>MPH</td>
<td>1980</td>
<td>Public Health (Epidemiology)</td>
</tr>
<tr>
<td>UCSF School of Dentistry</td>
<td>Certificate</td>
<td></td>
<td>Dental Public Health</td>
</tr>
</tbody>
</table>

NOTE: The Biographical Sketch may not exceed four pages. Follow the formats and instructions on the attached sample.

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors, include present membership on any Federal Government public advisory committee.

1973 California Dental License
1985 Diplomate, American Board of Dental Public Health
2003 Grand Marshall, Commencement Ceremony, School of Dentistry, UCSF
2004 The excellence in clinical teaching award, Dental Class of 2004, School of Dentistry, UCSF
2002- California Public Health Assn.-North, Oral Health Section, Chair
2004- American Dental Association, Spokesperson on Fluoridation
2005- ADA Council on Access, Prevention and Interprofessional Relations (CAPIR), Consultant
2005- Omicron Kappa Upsilon (OKU), Rho Rho Chapter, Secretary/Treasurer
2004-6 American Public Health Association, Oral Health Section, Chair-Elect

Present Position: Clinical Professor, Dept. Preventive & Restorative Dental Sciences, School of Dentistry, UCSF

B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.

Pollick HF. A pre-referendum survey of fluoridation attitudes and intended vote. Community Dental Health. 5, 49-62, 1986

C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.
Ongoing CDC Funded Grant through the Dental Health Foundation, a subcontractor with UC Berkeley Prevention Research Center. The purpose of the study is to determine how members of the public develop opinions on water fluoridation. I served as Senior Consultant providing technical assistance. Grant Number U48/DP000033-01.

Recently completed NIH Funded Grant through the UCSF Center to Address Disparities in Children's Oral Health - Risk Assessment for ECC. I served as a Consultant, having previously been the PI for the data set of the California Oral Health Needs Assessment of Children, 1993-94. Grant Number U54 DE 14251.
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
Photocopy this page or follow this format for each person.

NAME: Mark I. Ryder

POSITION TITLE: Professor of Periodontology

EDUCATION (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training."

<table>
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<th>DEGREE (if applicable)</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>Tufts College, Boston, MA</td>
<td>B.S. magna cum laude</td>
<td>1972</td>
<td>Molecular Biology</td>
</tr>
</tbody>
</table>

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

Principal Positions
1976-79 Research Fellow in Periodontology, Harvard School of Dental Medicine, Boston, MA
1979-85 Assistant Professor of Periodontology, University of California, San Francisco, CA
1985-1991 Associate Professor of Periodontology, University of California, San Francisco, CA
1991-now Professor of Periodontology, University of California, San Francisco, CA
2001-2004 Vice-Chair Department of Stomatology, University of California, San Francisco, CA
2001-now Chairman, Division of Periodontology, University of California, San Francisco, CA
2004-now Director, Postgraduate Program in Periodontology, University of California, San Francisco

Government Advisory Committees
1986-now NIH Site Visit Committees (4)
1985, 1993 NIH Study Section: Oral Biology and Medicine (Ad Hoc)

Most relevant publications since 1989

PFS 398 (Rev: 4/98) (Fonn Page 6) Page 13 Number pages consecutively at the bottom throughout the application. Do not use suffice such as 3a, 3b.


2000 Baron, A.C., Gansky, S.A., Ryder, M.I., and Featherstone, J.D.B. Cysteine Protease Inhibitor Activity of Salivary Cystatins in Whole Saliva of Periodontally Diseased Patients J.Perio Res. 34(8): 437-


Book Chapters


2002 Ryder, M.I. Development, Structure and Physiology of the Periodontium, in Contemporary Periodontics Chapter I (Mosby)
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person: DO NOT EXCEED FOUR PAGES.

NAME
Caroline Helene Shiboski

POSITION TITLE
Associate Professor

eRA COMMONS USER NAME
shiboski

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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</thead>
<tbody>
<tr>
<td>Lycee Rabelais, Versailles Academy, France</td>
<td>Baccalaureat</td>
<td>1978</td>
<td>Biology, Math, Physics</td>
</tr>
<tr>
<td>Universite R. Descartes, Paris V, France</td>
<td>D.D.S</td>
<td>1984</td>
<td>General Dentistry</td>
</tr>
<tr>
<td>University of California San Francisco</td>
<td>Certificate</td>
<td>1991</td>
<td>Advanced General Dentistry</td>
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<tr>
<td>University of California, Berkeley</td>
<td>M.P.H</td>
<td>1992</td>
<td>Epidemiology</td>
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<tr>
<td>University of California San Francisco</td>
<td>Certificate</td>
<td>1993</td>
<td>Dental Public Health</td>
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<td>University of California San Francisco</td>
<td>Certificate</td>
<td>1994</td>
<td>Dental Clinical Epidemiology</td>
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<tr>
<td>University of California, Berkeley</td>
<td>Ph.D</td>
<td>1997</td>
<td>Epidemiology</td>
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<tr>
<td>University of California San Francisco</td>
<td>Certificate</td>
<td>1998</td>
<td>Oral Medicine</td>
</tr>
</tbody>
</table>

A. POSITIONS AND HONORS

1984-1985 Research Assistant, New Product Development, IMS America Ltd. Ambler, PA
1985-1986 Clinical Instructor, Louis Mourier Hospital Dental Clinic, Colombes, France
1985-1986 General Dentist, St. Anne Hospital Oral Surgery Clinic and private dental practice, Paris, France
1986 Research Assistant, Oral Health Research Center, Fairleigh Dickinson Univer., Hackensack, NJ
1987 Dental Technician, Unique Dental Studio, Inc., Oakland, CA
1988-1989 Dental Health Instructor and Consultant, Alameda County Dental Health Bureau, Oakland, CA
1989-1994 Postgraduate Dentist University of California San Francisco, CA
1994-2003 Assistant Clinical Professor, Dept of Stomatology, University of California San Francisco, CA
2001-present Director, Oral Medicine Clinical Center, University of California San Francisco, CA
2003-2004 Associate Clinical Professor, Dept Orofacial Sciences, University of California San Francisco, CA
2004-present Associate Professor, Dept Orofacial Sciences University of California San Francisco, CA

HONORS & AWARDS

1984 Received High Honor for doctoral thesis titled "La prevention bucco-dentaire au Danemark"
1987 "Michele Bardet-Viatte Award " for best publication on Dental Health Promotion in Departement des Yvelines, France
1994 Dentist Scientist Award, Department of Stomatology, University of California, San Francisco, CA
2001 K23 award, Department of Stomatology, University of California San Francisco, CA
2001 Diplomate of the American Board of Oral Medicine
2001 Dean's Creativity fund Award
2003 Academic Senate New Investigator Award
2004 Teacher of the Year Award, Department of Stomatology, UCSF

B. PUBLICATIONS


C. Research Support.

**Ongoing Research Support**

BAA-DR-03-01 J. Greenspan – Troy Daniels (co-PIs) 09/30/03-09/29/08
NIH/NIDCR
International Research Registry Network for Sjogren’s Syndrome (SICCA)
The major goal is to develop an International Research Registry Network for Sjogren’s Syndrome, to develop standardized diagnostic criteria, and to develop a data and biospecimen bank from which these resources can be provided to members of the Registry Network and other investigators studying this disease.
Role: Co-Investigator

U01 AI 68636 (PI Benson, CA), 6/29/06-5/31/13
NIH/NIAID/NIDCR
Leadership for HIV/AIDS Clinical Trials Network
Social and Scientific systems
Title of site-specific project: Oral HIV/AIDS Research Alliance
Role on project: PI of the UCSF site (Epidemiology Unit)

The goal of the Oral HIV/AIDS Research Alliance (OHARA), that comprises 3 centers (UCSF/Epidemiology Unit, UNC/Virology Unit, and Case Western/Medical Mycology Unit), is to develop and implement an oral HIV/AIDS research agenda within the ACTG infrastructure. OHARA will provide the capacity to investigate the oral complications associated with HIV/AIDS and to address such overarching questions as the effects of potent antiretrovirals on the development of opportunistic infections (OIs) and the natural history of oral OIs, variation and resistance in the context of immune suppression. OHARA will support protocols for the development of prognostic indicators and therapeutic interventions for oral OIs for both domestic and international use, and develop a comprehensive oral infection and disease data set with HIV-1 virologic correlates.

**Completed Research Support**

K15 DE00359 Shiboski (PI) 09/30/94-09/30/00
NIH/NIDCR
*Oral Health Assessment of HIV-Positive Women*

The major goals of this project is to study predictors of oral mucosal lesions and utilization of dental care in HIV-Infected Women.
Role: Principal Investigator

U01 AI34498 Shiboski (PI) 12/01/97-11/30/00
NIH/NIAID
*Access to Dental Care among HIV-Positive Women: A Follow-Up Study*

The goal of this longitudinal study is to investigate predictors of dental care utilization among HIV-Positive and negative women followed as part of a multicenter observational study of HIV infection in women (WIHS).
Role: Principal Investigator Sub-Study

CT00-SF-001 UARP Bangsberg (PI) 07/01/00-06/30/01
UCSF/AIDS Research Program
Effect of care coordination on health outcomes in a cohort of HIV-infected urban poor men
The objective of this project is to describe care coordination and evaluate its effect on health outcomes and utilization of care in a cohort of HIV-infected urban poor, the REACH Cohort (Research in Access to Care in the Homeless) in San Francisco.
Role: Co-Investigator

CDC Special Interest Project  Tager (PI) 01/01/00-12/31/00
Analysis of Existing Oral Health Data in California Children

The goal of this project is to further analyze data collected as part of an oral health needs assessment of California school children conducted in 1993-94, in particular: to explore the association between race/ethnicity and dental caries in this population; and to examine the role of dental insurance on preventative dental behaviors in this population.

R01 DE 01129  Shafer (PI) 04/15/99-03/31/04
NIH/NIDCR
Oral Acquisition of HIV Infection

The goal of this study is to investigate the risk of acquisition of HIV through oral sex while controlling for other sexually transmitted diseases and for specific oral disease covariates.
Role: Co-Investigator

R03 TW06054  J. Greenspan (PI) 08/01/02-07/31/05
NIH/NIDCR  NCE to 07/31/06
HIV-Related Oral Diseases among Women in Harare

This study is an expansion of an existing cross-sectional study among Zimbabwean women. The objectives are to estimate oral mucosal disease incidence in relation to known immunologic marker of HIV disease progression and assess the sensitivity and specificity of detecting oral mucosal lesions by visual inspection of the mouth by trained nurses in a family planning/gynecology clinic in the sub-Saharan African setting.
Role: Co-Investigator

11 RT-0141  Jordan (PI) 07/01/02-06/30/05
Tobacco-Related Disease Research Program  NCE to 06/30/06
Molecular Predictors of Oral Cancer Development

The major goals of this project are to determine whether novel biomarkers are overexpressed in oral epithelial dysplasias and oral SCC; to determine whether specific novel biomarkers can be used to predict oral cancer development in patients with oral precancer. This project is consistent with the training component in Molecular Epidemiology of Dr. Shiboski's K23 award.
Role: Co-Investigator

University of California, San Francisco  Shiboski (PI) 07/01/03-06/30/04
Academic Senate Research Investigator Grant
Oral Complications Associated with Stem Cell Transplant among Children

The major goals of this project are to develop a grading system for oral cGVHD based on the presence or absence of know clinical signs and symptoms affecting the oral mucosa and lips; to assess the prevalence and severity of oral cGVHD in relation to stem cell source and other relevant covariates, of salivary hypofunction in relation to type of pretransplant conditioning regimen; and to explore the association between the level of colonization of the mouth by Candida Albicans and the severity of oral cGVHD.
Role: Principal Investigator
R33 CA95231  Jordan (PI)  04/01/04-03/31/07
NIH/NCI
Molecular Predictors of Oral Cancer Development

The major goals of this project are: To conduct a large-scale molecular epidemiological study of specific novel biomarkers, identified in our microarray studies of oral proliferative verrucous leukoplakia. While the molecular assays used are similar to this TRDRP grant, the disease is different. This project is consistent with the training component in Molecular Epidemiology of Dr. Shiboski’s K23 award.
Role: Co-Investigator

P01 DE07946  J. Greenspan (PI)  05/01/00-04/30/07
NIH/NIDCR
Oral Manifestations of AIDS

The goal of this program project is to continue work focusing on the oral manifestations of AIDS, specifically to better understand the pathogenesis of oral candidiasis and hairy leukoplakia, and to better define the epidemiology of oral lesions.
Role: Co-Investigator

K23 DE00443 Career Development Award  Shiboski (PI)  05/01/01-04/30/06
NIH/NIDCR  NCE 04/30/07
Career Development Award

The purpose of this career development award is to integrate a study of oral diseases in organ transplant recipients and other immunosuppressed populations with further training in molecular epidemiology and immunology as a complement to a background in general epidemiology and oral medicine.
Role: Principal Investigator

R03 DE014939  Shiboski (PI)  08/01/03-05/31/05
NIH/NIDCR  NCE to 05/31/07
Oral Health Outcomes in Pediatric Transplant Recipients

This study is to explore specific oral health outcomes in relation to new generation immunosuppressants in a population of pediatric renal transplant recipients (RTRs) and liver transplant recipients (LTRs) at UCSF.
Role: Principal Investigator
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Steven Jay Silverstein

POSITION TITLE
Professor

eRA COMMONS USER NAME
Stevens

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training)

<table>
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<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>University of Cincinnati, OH</td>
<td>DMD</td>
<td>1965</td>
<td>Pre-Dental</td>
</tr>
<tr>
<td>University of Kentucky</td>
<td>MPH</td>
<td>1970</td>
<td>Public Health</td>
</tr>
<tr>
<td>University of California, Berkeley, CA</td>
<td>Residency</td>
<td>1972</td>
<td>Public Health</td>
</tr>
<tr>
<td>University of California, San Francisco, CA</td>
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</tr>
</tbody>
</table>

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

Principal Positions Held:
1970-72 Lecturer in Dentistry, Univ. Of Calif., San Francisco,
1972-78 Assistant Professor, Univ. Of Calif., San Francisco
1978-83 Associate Professor & Vice Chair of General Dentistry, Univ. Of Calif., San Francisco
1986-90 Professor, Dept. Of Public Health & Hygiene, Chair, Division of Practice Administration & Public Health, Univ. Of Calif., San Francisco
1988-94 Associate Director, Dental Clinical Epidemiology, Univ. Of Calif., San Francisco
1989-91 Acting Chair, Dept. Of Dental Public Health & Hygiene, Univ. Of Calif., San Francisco
1991-present Professor, Director of Specialty Program in Dental Public Health, Univ. Of Calif., San Francisco,

Auxiliary Positions Held Concurrently
1982 Visiting Fellow (on sabbatical), Univ. Of Otago, New Zealand, School of Dentistry
1986-91 Quality Assurance Consultant, Health Services Administration, HHS
1989-91 Dental Consultant, Aetna Life Insurance Company
1996-99 Treasurer, Alliance for Best Clinical Practices in Dentistry

HONORS AND AWARDS
1969 D.M.D. with Honors, University of Kentucky
1977 Diplomate-American Board of Dental Public Health
1978 O.K.U.Dental Honoraire Fraternity

B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.
Silverstein SJ. Relationship between social drug use/abuse and dental disease, California, U.S.A. Community Dentistry and Oral Epidemiology 1973, 1, 89-93.

PHS 398/2590 (Rev 09/04, Reissued 4/2006)


**C. Research Support.** List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

**1997-06**

Training Grant in Dental Public Health. Bureau of Health Professions. Health Resources and Services Administration. (PI)

Supports the Dental Public Health Residency Program at UCSF

Grant # D13HP30009

**1995-07**

Dental Disease Prevention Project. Calif. Dept. Of Health Services. (PI)

Provide technical assistance to the California Dept. of Health Services in the areas of dental disease prevention for 320,000 school children.

Award # 04-35333

**1995-07**


Provide technical assistance to the California Dept. of Health Services in the areas of water fluoridation in the State of California.

Award # 04-35334

**1998-08**

Technical Assistance, Maternal/Child Health, CA Dept. Of Health Services (PI)

Provide technical assistance to the Maternal/Child Health Branch in the areas of dental disease prevention for mothers and children.

Award # 01-15340

**1999-01**

Dissemination of New Fluoride Recommendations, CDC (PI)

Developed and carried out research to determine the best way to disseminate clinical guidelines to public health professionals in the areas of fluoride use.

Grant # U48/CCU909706
1996-97
New Dental Delivery Systems: Tooth Preservation in Dentistry Delta Dental of Ca. (PI)
Developed a new delivery system that focused in the preservation of tooth structure.
Working with Delta Dental to incorporate this information into their insurance products.

2003-08
Reimbursement and Intensity of Dentists’ Training (M. Walsh PI).
NIDA and NIDCR
Grant # 5R01DA017973-03
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2. Photocopy this page or follow this format for each person.

NAME
Stephen, Samantha Margaret

POSITION TITLE
Director of Dental Services
San Francisco Department of Public Health

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
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<tbody>
<tr>
<td>University of Southern California School of Dentistry</td>
<td>BS</td>
<td>1981</td>
<td>Dental Hygiene</td>
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<tr>
<td>Los Angeles, California</td>
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<tr>
<td>San Francisco State University</td>
<td>MS</td>
<td>1991</td>
<td>Health Science</td>
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<td>San Francisco, California</td>
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EMPLOYMENT AND EXPERIENCE

Public Health Activities

- University of Southern California Mobile Dental Clinic 1979 to 1981 Coordinator & Staff Hygienist including supervision of dental hygiene portion of clinic. Special clinics in Ensenada, Mexico
- Kenyan Television 1981 Designed 2 dental health education programs sponsored by Colgate-Palmolive
- Teacher Workshops Nairobi, Kenya 1983 Organizer & Lecturer on dental health education for 143 schools
- San Francisco Department of Public Health 1992 Policy Paper for DPH Director on health issues affecting undocumented newcomers
- California Oral Health Assessment 1992 Participated in planning of California’s first oral health assessment of children in state
- Dental Bureau, Department of Public Health San Francisco, California 1985 to 1993 Community Program Coordinator duties: planning, coordinating and supervising of all community dental health programs and community liaison. Full time
- DIRECTOR OF DENTAL SERVICES San Francisco Department of Public Health Dental Bureau 1994 to present Management of DPH Dental Bureau including a budget of $2 million, supervision of 25 dentists, Hygienists and dental assistants, Responsibilities include oversight of 5 community dental clinics, staff training and quality assurance activities. Public
health activities include core functions of assessment, policy development and assurance, management of public health programs, research activities, program and education development and grant writing.

AWARDS, HONORS & GRANTS
The National Council of Science and Technology
Kenya, Africa

1983
Research Grant, Child-to-Child Dental Health Education

Department of Public Health
San Francisco, California

1986
Program Grant to develop dental health program for refugees

Department of Public Health
San Francisco, California

1988
Program Grant to produce dental health videotapes for refugees

Department of Public Health
San Francisco, California

1986 to present
Program Grant-SB 111 Dental Disease Prevention Program for elementary school children

Dental Health Foundation

1998 to 2000
Program Grant for 2 years for school-based prevention

PUBLICATIONS


Abstracts


Yee C, Stephen S, Lopez D, Barker JC, Weintraub JA. Healthy San Francisco SFDPH Personnel’s views on dental care importance. NOHC Miami, April, 2008

**RESEARCH ACTIVITIES**

<table>
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<tr>
<th>Project</th>
<th>Years</th>
<th>Role Description</th>
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<tr>
<td>Kenya National Epidemiological Research</td>
<td>1981 to 1984</td>
<td>Associate Researcher in Oral Hygiene</td>
</tr>
<tr>
<td>Kenya, Africa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kenya Chewstick Study</td>
<td>1981 to 1984</td>
<td>Main Researcher, developed list of trees used as chewsticks in Kenya</td>
</tr>
<tr>
<td>Kenya, Africa</td>
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<td></td>
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<tr>
<td>Child-to-child Dental Health Education</td>
<td>1981 to 1984</td>
<td>Main Researcher, project designed to demonstrate effectiveness of children teaching children dental health in primary schools</td>
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<tr>
<td>Kenya, Africa</td>
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<td></td>
</tr>
<tr>
<td>Department of Public Health</td>
<td>1986 to present</td>
<td>Main Researcher, Refugee Epidemiological Survey</td>
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<tr>
<td>San Francisco, California</td>
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</tr>
<tr>
<td>Department of Public Health</td>
<td>1991</td>
<td>Main Researcher, Baby Bottle Tooth Decay-Is Cow’s Milk a Risk Factor?, unpublished</td>
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<tr>
<td>San Francisco, California</td>
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</table>
**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel in the order listed for Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

**NAME**

WALLHAGEN, Margaret

**POSITION TITLE**

Professor

**EDUCATION/TRAINING**

(Include baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<th>DEGREE</th>
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<th>FIELD OF STUDY</th>
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<tr>
<td>St. Luke's Hospital School of Nursing, NY, NY</td>
<td>RN</td>
<td>1965</td>
<td>Nursing</td>
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<tr>
<td>University of California, San Francisco, CA</td>
<td>BSN</td>
<td>1970</td>
<td>Nursing</td>
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<tr>
<td>University of California, San Francisco, CA</td>
<td>MSN</td>
<td>1971</td>
<td>Nursing</td>
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<tr>
<td>University of Washington, Seattle, WA</td>
<td>PhD</td>
<td>1988</td>
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</table>

**POST-MASTERS**

1994 University of California, San Francisco Nurse Practitioner, Gerontology

1995-now Certification-American Nurses Credentialing Center, Gerontological Nurse Practitioner

**PRINCIPAL POSITIONS HELD**

<table>
<thead>
<tr>
<th>DATE</th>
<th>INSTITUTION AND LOCATION</th>
<th>POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1965-66</td>
<td>Stamford Hospital, Stamford, CT</td>
<td>Staff Nurse, Med-Surg; ICU/CCU</td>
</tr>
<tr>
<td>1967</td>
<td>Upstate Medical Center, Syracuse, NY</td>
<td>Staff Nurse, ICU/CCU</td>
</tr>
<tr>
<td>1967-70</td>
<td>Alta Bates Hospital, Berkeley, CA</td>
<td>Staff Nurse, ICU/CCU FT, float(PT)</td>
</tr>
<tr>
<td>1972</td>
<td>Highland General Hospital, Oakland, CA</td>
<td>Staff Nurse, ICU</td>
</tr>
<tr>
<td>1973-74</td>
<td>N.T. Enloe Memorial Hospital, Chico, CA</td>
<td>Staff Nurse, ICU/CCU</td>
</tr>
<tr>
<td>1974-80</td>
<td>California State University, Chico, CA</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>1980-88</td>
<td>California State University, Chico, CA</td>
<td>Assoc. Professor (on leave '83-'87)</td>
</tr>
<tr>
<td>1983-87</td>
<td>University of Washington, Seattle WA</td>
<td>Research Assistant &amp; Associate</td>
</tr>
<tr>
<td>1988-91</td>
<td>University of California, SF, CA</td>
<td>Assistant Clinical Professor</td>
</tr>
<tr>
<td>1991-97</td>
<td>University of California, SF, CA</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>1994-98</td>
<td>North of Market Senior Services, CA</td>
<td>Faculty Practice/GNP</td>
</tr>
<tr>
<td>1997-2003</td>
<td>University of California, SF, CA</td>
<td>Assoc. Professor</td>
</tr>
<tr>
<td>2001-now</td>
<td>Veterans Administration Medical Center, SF</td>
<td>GNP, faculty practice WOC</td>
</tr>
<tr>
<td>2003-now</td>
<td>University of California, SF, CA</td>
<td>Professor</td>
</tr>
</tbody>
</table>

**HONORS AND AWARDS (selected)**

Summer Institute in Research on Aging, July 1989. Sponsored by Brookdale Foundation, NIA-NIH Mini-Fellowship in Ethnogerontology, Geriatric Education Center, Stanford University, Summer 1993 Hartford Institute Geriatric Nursing Research Fellow, 2000; Year 2000 Merck Scholar National Center on Caregiving – Advisory Board; Fellow, American Geriatrics Society, 2004

**PUBLICATIONS (Selected)**


7. Wallhagen, M., Strawbridge, W., & Kaplan, G. Six year impact of hearing impairment on psychosocial and physiologic functioning. The Nurse Practitioner 1995; 21(9), 11-14.


21. Wallhagen, M., Strawbridge, W., Shema, S., Kurata, J., Kaplan, G. Comparative impact of hearing and vision impairment on subsequent functioning. JAGS 2001; 49(8), 1086-1092.


RESEARCH SUPPORT – Selected – Past Six Years
In Progress

1 R01 NR0082460-01A1 (Wallhagen) 09/5/03-06/30/07 35%
NIH, NINR
$302,632
The Experience of Hearing Impairment

Minimal data are available on the experience of hearing impairment in older adults and their communication partners (CPs) (partner/spouse/caregiver). To address this critical gap in our understanding, this longitudinal qualitative study with a naturalistic (non-manipulated) intervention will investigate the experience and consequences (psychosocial, functional, clinical) of hearing impairment for community dwelling hearing impaired elders (aged 60 and over) and their CPs across one year. The study will inform health professionals regarding the meaning of hearing impairment and how older adults and their CPs manage this chronic condition within the context of their on-going lives, and will underpin the development of targeted interventions to facilitate adaptation to hearing impairment and thereby enhance quality of life.

Pending - None

Completed

Kaplan, G.A. (PI) 4/1/98-3/31/03
NIA/NIH
Health and Function in the Alameda County Study
Consultant

This 34-year follow-up of the Alameda County Study will focus on behavior risk factors associated with health and aging in an older cohort. Subjects were the estimated 2,100 survivors of the original 6,928 Alameda County residents first interviewed in 1965. I worked with colleagues on this grant assessing the impact of hearing impairment on older adults and on their partners. My role was as a consultant in the last two years of the grant was to design and supervise qualitative data collection and analyses for a subset of subjects. The purpose of this component of the study was to understand the experience of disability in older persons and specifically why older persons with similar disabilities have wide variations in mental health and physical functioning.

Wallhagen, M.I. (PI) 7/1/96-12/31/99
NINR/NIH - Academic Research Enhancement Award
Diabetes Education, Control, and Older African-Americans

This pilot study used triangulation of methods and a person-environment interaction perspective to explore an intervention in concert with intensive interviews in a sample of older African-Americans (65) with non-insulin-dependent diabetes mellitus (NIDDM) and their caregivers/diabetes helpers. The goal was to refine the intervention based on a better understanding of the relationship between the impact of the educational program and the perceived control of each partner in the dyad.
Wallhagen, M. (PI) & Strawbridge, W. (Co-PI)  
Research Center for Symptom Management, 5P30NR03927-05, NINR  
Motivation for self care and symptom management in older persons with type 2 Diabetes Mellitus.

Using focus groups with subjects from an on-going longitudinal study, this pilot project was designed to: 1) Investigate, compare, and contrast self-care and symptom management practices, self care motivation, and self-care decision making in an ethnically diverse community sample of older (>55) persons with type 2 DM; 2) Identify barriers and promoters for participation in educational opportunities and implementation of self care practices that minimize symptoms and long-term complications; and, 3) Identify previous patterns of behavior available across three decades that are associated with current behavioral patterns and decision-making.

Strawbridge, W.J. (PI) and Wallhagen, M.I., (Co-PI)  
AARP Andrus Foundation  
Successful Aging in Persons with Chronic Conditions

Analyses of successful aging have been drawn primarily from theoretical models designed by researchers and have stressed high levels of physical functioning coupled with minimal prevalence of chronic illness. The purpose of this study was to elicit how older adults define successful aging and to identify its prediction and consequences. Another focus was to elicit issues related to a sense of control that influences perceptions of successful aging. I was primarily responsible for giving direction for the qualitative component, including data collection and analysis, and for analyzing and interpreting data related to the theoretical construct of control. Strategies used in analyses include triangulation of quantitative and qualitative methods.
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Walsh, Margaret

POSITION TITLE
Professor

ERA COMMONS USER NAME

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
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<tbody>
<tr>
<td>University of California, San Francisco</td>
<td>B.S.</td>
<td>1969</td>
<td>Dental Hygiene</td>
</tr>
<tr>
<td>Columbia University, New York</td>
<td>M.S.</td>
<td>1974</td>
<td>Dental Hygiene</td>
</tr>
<tr>
<td>California State University, San Francisco</td>
<td>M.A.</td>
<td>1978</td>
<td>Educational Evaluation</td>
</tr>
<tr>
<td>University of San Francisco, San Francisco</td>
<td>Ed.D.</td>
<td>1981</td>
<td>Education</td>
</tr>
</tbody>
</table>

A. Positions and Honors.

1974-78 Assistant Professor & Chairman, Department of Dental Hygiene, Orange County Community College, Middletown, New York
1978-83 Assistant Professor, Department of Periodontology, UCSF School of Dentistry
1983-85 Assistant Professor, Department of Dental Public Health and Hygiene, UCSF School of Dentistry
1985-91 Associate Professor and Chair, Division of Dental Hygiene and Preventive Dentistry, Department of Dental Public Health and Hygiene, UCSF School of Dentistry
1991-92 Professor and Chair, Division of Dental Hygiene and Preventive Dentistry, Department of Dental Public Health and Hygiene, UCSF School of Dentistry
1992-99 Professor, Department of Dental Public Health and Hygiene, UCSF School of Dentistry
1999-now Professor, Department of Preventive and Restorative Dental Sciences, UCSF School of Dentistry

B. Selected peer-reviewed publications (in chronological order).


37. Walsh MM, Ellison J, Hilton JF, Chesney M, Ernst VL. Spit (smokeless) tobacco use by high school baseball athletes in urban and rural areas of California. The Prevention Researcher 2001;8(2):8-11.


C. Research Support

Ongoing Research Support

1RO1DA17973 Walsh (PI) 09/30/03-06/30/08
NIDA
Reimbursement and Intensity of Dentists' Training
The major goals of this project are to compare the effects of training and of third-party reimbursement on patient report of general dentists' assessment and treatment of tobacco use behaviors during target visits.
Role: PI
Completed Research Support

121T-0169 Walsh (PI)  7/1/03-6/30/05
Tobacco Related Disease Research Program
A Web-based Support Community as a Tool for ST Cessation
Goal: To create a web moderated discussion forum and a communication tool virtual world chat room
and pilot test the web-based interactive communication tool for usability and acceptability.
Role: PI

DE13058 Walsh(PI)  05/01/99 – 04/30/05
NIH/NIDCR
Spit Tobacco (ST) Cessation: Rural High School Males
[part of P60DE13058 (PI: C. Damsky)]
The major goals of this project are to determine the efficacy of a school-based, nurse-directed, peer-
and dentist-assisted ST intervention program among male students in rural areas of California.
Role: PI
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Jane A. Weintraub

POSITION TITLE
Lee Hysan Professor of Oral Epidemiology and Dental Public Health

ERA COMMONS USER NAME
Weintraub

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>University of Rochester, Rochester, NY</td>
<td>BS</td>
<td>1975</td>
<td>Biology/Geology</td>
</tr>
<tr>
<td>State University of New York at Stony Brook</td>
<td>DDS</td>
<td>1979</td>
<td>Dentistry</td>
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<tr>
<td>Harvard University School of Public Health, Boston</td>
<td>MPH</td>
<td>1980</td>
<td>Public Health</td>
</tr>
<tr>
<td>Harvard University School of Dental Medicine, Boston</td>
<td>Certificate</td>
<td>1982</td>
<td>Dental Public Health</td>
</tr>
<tr>
<td>USPHS Primary Care Health Policy Fellowship</td>
<td></td>
<td>1998</td>
<td>Primary Care Policy</td>
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</table>

A. Positions and Honors.

Positions and Employment
1982-84 Clinical Instructor then Instructor, Dept. of Dental Care Administration, Harvard School of Dental Medicine
1982-84 Program Analyst, Division of Dental Health, Massachusetts Dept of Public Health, Boston, MA
1984-88 Assistant Professor of Dental Public Health, School of Public Health, and Assistant Professor of Dentistry (Community Dentistry), School of Dentistry, the University of Michigan
1988-91 Assistant Professor, Dept. of Dental Ecology, School of Dentistry, and Assistant Professor, Dept. of Health Policy and Administration, School of Public Health, The University of North Carolina at Chapel Hill
1991-95 Associate Professor, UNC School of Dentistry and School of Public Health
1995- Adjunct Associate Professor, Dept. of Epidemiology, School of Public Health
1995- Lee Hysan Professor, Chair, Division of Oral Epidemiology and Dental Public Health, Department of Preventive and Restorative Dental Sciences, School of Dentistry, and Professor, Department of Epidemiology and Biostatistics, School of Medicine, University of California, San Francisco
1996-99 Interim Co-chair, Dept. of Dental Public Health & Hygiene, UCSF School of Dentistry
2001- Pi and Director, NIH-funded Center to Address Disparities in Children’s Oral Health

Other Experience and Professional Memberships
1983-85 President, State University of New York at Stony Brook School of Dental Medicine Alumni Association
1985-88 Section Council, American Public Health Association, Oral Health Section
1989 Special Reviewer, NIH Oral Biology and Medicine Study Section-2
1992-93 President, American Association for Dental Research, North Carolina Section
1992 Special Reviewer, AHCPR
1993 Special Reviewer, NIAMS
1993-95 Invited member, Dental Research Programs Advisory Committee of NIDR
1993-94 President, Behavioral Sciences and Health Services Research Group, IADR
1994-97 Executive Council, American Association of Public Health Dentistry (AAPHD)
1995 Ad hoc reviewer, NIDR Small Grant Application
1996, 97, 2001, 02, 04, 05, 06 Special Emphasis Panels, NID(C)R
1997-00 Scientific Editor and Contributing Author, Surgeon General’s Report on Oral Health
1998-00 Reviewers Reserve, Agency for Health Care Policy and Research
1999 CDC/NIDCR: Healthy People 2010 national oral health objectives, Advisory Committee
1999-01 American Association of Dental Research, Board Member at Large
1999-03 Vice-Pres., Pres.-elect, President, American Association for Dental Research. San Francisco Section
2002-05 Vice-Pres., President-elect, President, American Association of Public Health Dentistry
2005 CDC, Dental Sealant Ad hoc expert workgroup

Honors
1997 Distinguished Alumnus Award, SUNY at Stony Brook School of Dental Medicine
1998 AAPHD President’s Award
1999 AAPHD Special Merit Award
B. Selected and recent peer-reviewed publications (in chronological order).


Weintraub JA. Fluoride gel applications reduce caries incidence. (Commentary) Evidence-Based Dentistry 2002; 3:64-65.


Mligrom P, Garcia RI, Ismail A, Katz RV, Weintraub JA. Improving America's access to care: The oral health disparities centers program of the National Institute of Dental and Craniofacial Research. JADA 2004; 135(10)1389-96.


C. Research Support

Ongoing Research Support

RO3 DE016571 (Newacheck P, PI) 4/1/05 – 2/28/07 NIH/NIDCR
Child, family and community influences on oral health
Role: Investigator
Goal: To use the data from the 2003 NCHS National survey of children's health to develop conceptual and empirical models of oral health.

RO3 DE16953 (Isong U, PI) 9/1/05- 8/31/06 NIH/NIDCR
Role: Investigator
Oral health disparities in children with special needs
Goal: To use NHANES data to examine factors associated with the oral health of children with special needs.

1 U54 DE14251-01 (Weintraub JA, PI) 9/30/01-07/31/08 NIH/NIDCR
Center to Address Disparities in Children's Oral Health
Center Goal: To understand, prevent, and reduce oral health disparities among young children.
Role: Director of Center, Director of Administrative Core, Co-Investigator of Measurement and Evaluation Core, PI of Projects 1 (Fluoride Varnish Randomized Trial) and 6 (Population-based Oral Health Study of Agricultural Worker Families), Co-Investigator of Projects 2, 4, 5 and 8

RO1-DA017973 (Walsh M, PI) 9/30/03-6/30/08 NIH/NIDCR/NIDA
Reimbursement and Intensity of Dentists' Training (in Tobacco Control)
Goal: To conduct a randomized controlled trial to compare the effects of intensity of training and of third-party reimbursement on 1) patient report of general dentists' assessment and treatment of tobacco use behaviors during target visits, 2) dentists' knowledge, attitudes and behaviors related to assessment and treatment of tobacco use, and 3) patient report of compliance with dentists' tobacco control recommendations.
Role: Investigator

Grant #ENN08N (Gansky S, PI) 3/1/06-8/31/06 California Program on Access to Care
Caries Prevention for California's Low Income Preschool-aged Children with Inconsistent Access to Care Using Fluoride Varnish
Goals: 1) To perform additional statistical analyses of the recently completed UCSF Fluoride Varnish Randomized Controlled Trial to answer policy relevant questions not originally planned; 2) To disseminate the trial's findings to policymakers, primary care providers, child health advocates and other groups.
Role: Investigator

Pending
Contract 2006-14 NIH/NHLBI/NIDCR
(PI: Schenker M, UC Davis)
Hispanic Community Health Study- Field Center
UCSF Subcontract (Weintraub, J, PI)
HCHS-Dental Component

Recent Completed Research Support

1-RO1-DE12455 (Featherstone JDB, PI) 09/15/98-09/14/02+ ext NIDCR
Caries Management by Risk Assessment
Goal: To conduct a randomized clinical trial to compare the intervention group, management based upon their caries risk status (assessed by salivary microbiological and chemical assays) and a control group managed by "conventional" restoration treatment without knowledge of risk status.
Role: Investigator

P60 DE13058 (Damsky C, PI) 8/1/99-7/31/04 NIH/NIDCR
Comprehensive Oral Health Research Center of Discovery
Overall Center Goal: To develop new strategies for enhancing tissue integrity and repair.
Primary Aim of specific project: To conduct a randomized clinical trial to compare the efficacy of once or twice/year fluoride varnish application and counseling to counseling alone in preventing early childhood caries.
Role: Associate Director of Center, Director, Biostatistics and Research Design Core, and PI of individual project: Prevention of Early Childhood Caries

Contract (Ramos-Gomez, F, PI) 4/01/01 - 12/1/04 Delta Dental
Healthy Kids, Healthy Teeth Program
Primary Goal: To provide consultation on the development and evaluation of this dental caries prevention program in Alameda County, CA that includes training dentists to provide care for young children and providing enhanced reimbursement rates for preventive series for those who complete the training.
Role: Investigator

CNN13K (Isong, U, PI) 3/1/04 - 8/31/04 California Program on Access to Care
Dental Check-up of the Healthy Families Program California Policy Research Center, UCOP
Goal: To use data from the 2001 California Health Interview Survey to evaluate dental access among beneficiaries of the State Children's Health Insurance Program (SCHIP) compared to Medi-Cal (Medicaid) and uninsured children.
Role: Investigator

1-P50 DE12058 (White BA, PI) 10/99-9/04 NIH/NIDCR
Craniofacial Complementary and Alternative Medicine Research Center
Goal: This Center included three clinical trials: two were comparing usual and alternative ways of treating temporomandibular joint dysfunction and one compared ways of treating periodontal disease.
Role: Chair, Scientific Advisory Committee

Contract # 6919-006 (Bonito and Bader, PI) 7/1/99-9/30/2000 AHCPR/AHRQ
Diagnosis and Management of Dental Caries
Role: Panel participant/consultant RTI-UNC Evidence based practice center

R44 DE11345-02A1 (Weintraub J, PI) 2/1/97-1/30/00 NIH/NIDCR/Panorama Research
Novel Therapy for Dental Caries
Goal: To conduct a randomized clinical trial to determine the safety and efficacy of a plantibody (monoclonal antibodies, anti-S. mutans, grown in plants) applied topically to teeth in preventing S. mutans recolonization on tooth surfaces.

Contract (Weintraub J, PI) 2/1/99-6/30/00 Planet Biotechnology
Safety and Efficacy of CaroRx™, a plant-produced SlgA Antibody in preventing S. Mutans Recolonization in Healthy Volunteers

Contract (Eakle S, PI) 8/1/99-11/30/99 Medicom, Inc.
Goal: To determine the residual salivary fluoride levels in the mouth over time following the use of Duraflor fluoride varnish.
Role: Co-investigator

RO3 DE 12135 (Ramos-Gomez, F, PI) 7/1/97- 6/30/99 NIH/NIDR
Risk factors associated with early childhood caries
Role: Co-investigator

Contract (White J, PI) 9/01/97 - 09/01/98 Sangi America
Clinical evaluation of HAP dentifrice
A clinical trial to test HAP dentifrice as a tooth remineralizer.
Role: Investigator
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME
Joel Morris White

POSITION TITLE
Professor

Associate Dean Clinic Administration

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purdue University, West Lafayette, IN</td>
<td>BS</td>
<td>1975-1979</td>
<td>Biological Science</td>
</tr>
<tr>
<td>Ohio State University, Columbus, OH</td>
<td>DDS</td>
<td>1979-1983</td>
<td>General Dentistry</td>
</tr>
<tr>
<td>University of Michigan, Ann Arbor, MI</td>
<td>MS</td>
<td>1983-1985</td>
<td>Dental Materials</td>
</tr>
</tbody>
</table>

NOTE: The Biographical Sketch may not exceed four pages. Items A and B (together) may not exceed two of the four-page limit.

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

Positions

1988-1993 Asst. Professor, UCSF Dept. of Restorative Dentistry, San Francisco, CA
1993-1998 Assoc. Professor, UCSF, Dept. of Restorative Dentistry, San Francisco, CA
1998-present Professor, UCSF, PRDS, San Francisco, CA
2005-present Associate Dean Clinic Administration, UCSF, School of Dentistry, San Francisco, CA

Honors and Awards

1999 Fellow, Academy of Dental Materials
2000 Fellow, American College of Dentists
2002-05 John Greene Chair in Primary Care Dentistry, UCSF Dept. of Preventive and Restorative Dental Sciences
2002 Alan J. Davis/SCADA Achievement Award, Intl. Assn. of Student Clinicians- Amer. Dental Assn.
2005 Acad. of Laser Dentistry, Distinction in Service Award

B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.

Principal Investigator/Program Director (Last, First, Middle):


C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

Ongoing
Title: Comprehensive Oral Health Research Training Program (COHORT)
Agency: NIH/NIDCR
Period: 7/1/01-6/30/06
Goals: The COHORT Program at UCSF seeks to promote broad perspective on oral health research, provide key tools needed by trainees, and provide a scientifically rigorous foundation for conduct of research.

Completed
Title: Caries Management by Risk Assessment
Agency: NIH/NIDCR RO1 DE12455
Period: 9/15/98-6/30/03
PI: Featherstone, John D.
Goals: This project studies management of dental caries by biological risk assessment measures.

Title: Dentin Characterization and modification
Agency: NIH/NIDCR P01 DE09859
Period: 8/1/96-6/30/02;
PI: Marshall, Sally J.
Goals: This program project investigates the fundamental physical properties of dentin and chemically modified dentin.
Appendix H

Faculty Letters of Commitment
January 12, 2007

William F. Bird, DDS, DPH
Interim Chair
Department of Preventive & Restorative Dental Sciences
School of Dentistry
University of California, San Francisco
707 Parnassus, Box 0758
San Francisco, CA 94143-0758

Dear Dr. Bird:

I am writing this letter to express my interest in participating in the proposed Masters of Science in Dental Hygiene (MSDH) graduate program. I believe the proposed program fills an important open niche in graduate education at UCSF. I look forward to participating as a faculty member and research mentor, and will help out in any way I can.

Sincerely,

Gary C. Armitage, DDS, MS
R. Earl Robinson Distinguished Professor
Division of Periodontology
Department of Orofacial Sciences
May 15, 2008

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
School of Dentistry
University of California, San Francisco
707 Parnassus Avenue
San Francisco, CA 94143-0758

Dear Dr. Bird:

I intend to participate in the proposed Dental Hygiene Master’s Degree program and to enthusiastically support its activities by serving as a faculty member and research preceptor. My areas of research interest relate to the aims of the proposed curriculum. It is my sincere opinion that this program will fill a demonstrated need for graduate dental hygiene education to prepare future dental hygiene educators, leaders and research collaborators. The interdisciplinary program will be unique with its emphasis on oral disease prevention and health promotion across all age groups.

Sincerely,

[Signature]  
Dr. Darrell G. Boychuk
William F. Bird, DDS, DPH  
Interim Department Chair  
Department of Preventive and Restorative Dental Sciences  
University of California, San Francisco  
707 Parnassus  
San Francisco, CA 94143-0758

Dear Dr. Bird:

I am writing this letter to express my support for the proposed new MSDH graduate program. I believe the proposed program fills an important open niche in graduate education at UCSF, and will offer highly trained educators and clinicians to the State of California. I look forward to participating as a faculty member as my schedule allows.

Sincerely,

[Signature]

Owen Essex, RDH, MS  
Associate Clinical Professor
August 22, 2006

William Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus Avenue
San Francisco, CA 94143-0758

Dear Dr. Bird:

I strongly support your proposal to form a Graduate Group in Preventive and Restorative Dental Sciences and a program of graduate studies in Dental Hygiene at UCSF for the M.S. degree.

I am definitely interested in participating as a member of the Graduate Group in Preventive and Restorative Dental Sciences and as a faculty member of the Dental Hygiene Master of Science Degree Program. I currently teach the graduate course RD213, Chemical Aspects of Dental Caries, that will become part of the curriculum for this program. I also have over 25 years experience in mentoring the research projects of masters students.

I consider the program as proposed to be an exciting new venture that will provide the leaders in dental hygiene for the future who will be key players in the implementation of caries prevention as part of the new standard of care in dentistry. I look forward to contributing to the program either through teaching, being a research mentor or in some other capacity.

Yours Sincerely,

[Signature]

John D. B. Featherstone, M.Sc., Ph.D.
Professor
Department of Preventive and Restorative Dental Sciences
Director, Program in Biomaterials, Biophysical Sciences and Engineering
Walsh, Margaret

From: Finzen, Fritz
Sent: Thursday, February 14, 2008 10:24 AM
To: Agabian, Nina
Cc: Walsh, Margaret
Subject: Re: Masters in Dental Hygiene

Dear Nina-

As I previously stated in Faculty Council, I give my highest recommendation for this program. There is a profound need for dental hygiene educators, and this program will help to address this national health issue.

Sincerely, Fritz

On 2/13/08 1:16 PM, "Nina Agabian" <agabian@GLOBALHEALTH.UCSF.EDU> wrote:

> Dear Faculty Council Members,
> The proposed Masters in Dental Hygiene has been moving forward through
> the UCSF approvals process. Yesterday at the Academic Senate
> Coordinating Committee, Graduate Council commented that it was one of
> the best new proposals for a degree program that they have ever
> reviewed. Our congratulations to Peggy and her team for their efforts
> in putting forward this wonderful new program.
> Peggy has asked me to write a final letter of endorsement for the
> program on behalf of Faculty Council to Interim Dean Featherstone.
> Based on our previous discussions I believe we are all unanimously in
> support of my writing such a letter. I will do so in the next couple
> of days unless I hear from any of you that you wish to consider this
> again in open meeting in March.
> Thanks,
> Nina
> Nina Agabian, Ph.D.
> Director of Research
> Global Health Sciences
> Director, Oral AIDS Center
> Professor
> Dept Cell and Tissue Biology
> University of California San Francisco
> 521 Parnassus Avenue
> San Francisco, Ca. 94143-0640

--
Fritz Finzen, DDS
UCSF School of Dentistry

Please note new email: Fritz.Finzen@ucsf.edu
Peggy,

I would be pleased to be part of the MS/Oral Hygiene graduate group and let me know if you have any questions or need my help on getting this off the ground.

Best Regards,

Dan

Daniel Fried, PhD
Professor
Director, MS Program in Oral & Craniofacial Biology Division Biomaterials and Bioengineering Department of Preventive and Restorative Dental Sciences University of California, San Francisco
707 Parnassus Ave.
San Francisco, CA 94143-0758
Phone (415) 1502-6641
Fax (415) 476-0858
MEMORANDUM

To: Bill Bird, Interim Department Chair
From: Stuart Gansky
Date: 04 Aug 06
RE: MSDH Program

I intend to participate in the proposed new Graduate Group in Preventive and Restorative Dental Sciences and in the Dental Hygiene Master's Degree program. I plan to support the new program's activities by serving as a faculty member and research preceptor. I was a course director for the BSDH program and a research preceptor for hygiene students. My research interests (public health, health disparities, risk assessment, etc) fit well with the aims of the proposed curriculum. I believe this program will fill a demonstrated need for graduate dental hygiene education to prepare future dental hygiene educators, leaders and research collaborators. The interdisciplinary program will be unique with its emphasis on oral disease prevention and health promotion across the lifespan, with a special emphasis on the older adult.
William Bird, DDS, DrPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

August 14, 2006

Dear Dr. Bird,

I strongly support your proposal to form a Graduate Group in Preventive and
Restorative Dental Sciences and a program of graduate studies in Dental
Hygiene at UCSF for the M.S. degree.

I am sincerely interested in participating as a member of the Graduate Group
in Preventive and Restorative Dental Sciences and as a faculty member of the
Dental Hygiene Master of Science Degree Program. My area of research
interest fits well with the aims of the proposed curriculum. Preparing future
dental hygiene educators, leaders, and research collaborators, this program
promises to fill a demonstrated need for graduate dental hygiene education. I
am confident that with its emphasis on oral disease prevention and health
promotion across the lifespan, the interdisciplinary program will be an
important asset to the University and community.

Sincerely,

Barbara Gerbert, PhD
Professor and Chair
William F. Bird, DDS, Dr.PH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

I fully support the proposal for a UCSF Master of Science Degree in Dental Hygiene. The aims of the proposed program address the critical need for graduate education specifically designed to produce academically prepared dental hygiene educators. The number of California basic preparation dental hygiene programs has almost doubled in the last fifteen years. Recently, I have had the opportunity to speak with every dental hygiene educational program director in California. The dental hygiene program directors and the faculties they represent unanimously and enthusiastically support this proposal for the 1st MSDH degree program in California. Further more, the directors consistently expressed their concern over the current and projected future shortage of academically prepared dental hygiene educators. The proposal you, Drs. Walsh and Weintraub have put forward builds on the many strengths of the department, school and campus. The multidisciplinary approach to advanced education with emphasis on oral disease prevention and health promotion across the lifespan with special focus on the older adult will provide a much needed avenue for educating the next generation of dental hygiene educators and research collaborators.

It would be a privilege to contribute to a UCSF MSDH Program as a faculty member, mentor, and advisor. You have my commitment to participate and complete support for the Department of Preventive and Restorative Dental Sciences' proposed Program of Graduate Studies in Dental Hygiene at UCSF for the MS degree.

Sincerely,

Barbara L. Heckman, RDH, MS
Associate Clinical Professor
January 9, 2008

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

I am writing this letter to express my enthusiastic support and interest in the proposal for a Graduate Group in Preventive and Restorative Dental Sciences and for a new graduate program leading to a Master of Science Degree in Dental Hygiene.

I am willing to participate as research preceptor and/or as a professional educator preceptor. In addition, I will contribute to graduate teaching in courses where my expertise is needed.

Sincerely,

Mehran Hossaini, DMD
Assistant Clinical Professor
Department of Oral and Maxillofacial Surgery
Susan Hyde, DDS, MPH, PhD
Assistant Adjunct Professor
8/7/06

William F. Bird, DDS, DrPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird,

This letter is in support of the proposed new Graduate Group in Preventive and Restorative Dental Sciences and for a new graduate program leading to a Master of Science degree in Dental Hygiene. I believe the proposed program will add an important component to the graduate education at UCSF.

I am interested in participating as a member of the Graduate Group in PRDS and as a faculty member of the Master of Science in Dental Hygiene program. I can contribute by teaching in graduate courses where my expertise is needed, and can function as a mentor and preceptor.

Sincerely,

Susan Hyde, DDS, MPH, PhD
May 13, 2008

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird,

I am writing this letter to express my enthusiastic support and interest in the proposal for a graduate program leading to a Master of Science Degree in Dental Hygiene. I believe this program will be a wonderful addition to the School of Dentistry and will continue the mission of our university.

My training in oral & maxillofacial surgery with particular interest in craniofacial congenital anomalies, facial reconstruction, outpatient dentoalveolar surgery, and care for the medically compromised patient may provide support for teaching graduate courses where my expertise may be utilized. Additionally, I am conducting clinical studies in the areas above as well as translational studies in bone regeneration and the uses of mesenchymal stem cells (from bone and dental pulp) in tissue engineering and would be willing to participate as research preceptor (mentor).

I strongly support this program and I wish you the best!

Sincerely,

Janice S. Lee, DDS, MD, MS
Assistant Professor of Clinical Oral & Maxillofacial Surgery
August 25, 2006

Bill Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

I strongly support your proposal to form a Graduate Group in Preventive and Restorative Dental Sciences and a program of graduate studies in Dental Hygiene at UCSF for the M.S. degree.

I am indeed interested in participating as a member of the Graduate Group in Preventive and Restorative Dental Sciences and as a faculty member of the Dental Hygiene Master of Science Degree Program. I look forward to contributing to the program either through teaching, being a research mentor or in some other capacity.

Sincerely,

[Signature]

Peter M. Loomer, BSc, DDS, PhD, MRCDC
Associate Professor of Clinical Periodontology
January 16, 2007

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

As a Gerontological Advanced Practice Nursing Masters Specialty Coordinator, I enthusiastically support the proposed UCSF Master of Science Degree in Dental Hygiene with its emphasis on producing dental hygiene academic leaders. This endeavor will increase the numbers of oral health care providers equipped to address the complex needs of our aging population. From my clinical practice, I am acutely aware of the great need for dental care of our elders, particularly at home and in nursing homes. I am excited about this potential collaboration.

Our Nursing Courses N295 A and N295 B “Care of Older Adults” will enhance the MSDH curriculum by integrating pathophysiological, pharmacological, psychosocial, and ethical concepts for meeting the complex health care needs of older adults. As course director for N295 A, I would welcome the two MSDH graduate students into “Care of Older Adults”. I am committed to increasing knowledge about the health care of older adults, so their inclusion is consistent with my personal values. In addition, dental hygienists will enrich the discussions by bringing their oral health expertise to enhance knowledge regarding oral disease prevention across the life span and the oral health/total health relationship for our graduate nursing students.

I look forward to collaborating with the faculty associated with this proposed new program and to providing MSDH student multidisciplinary educational experiences with the graduate nursing students.

Sincerely,

Liz Macera, PhD, RN, NP-C
Co-Director, Gerontological Nursing Program
Department of Physiological Nursing
Box 0610
415-502-7774
Liz.macera@nursing.ucsf.edu
January 16, 2007

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

As you know, administrators and faculty members in the UCSF School of Nursing Department of Physiological Nursing have been collaborating with faculty dedicated to the development of a graduate program for a Master of Science Degree in Dental Hygiene. As an Associate Clinical Professor and Co-Director of the Gerontological Advanced Practice Nursing, I strongly support the proposed MSDH program with its special emphasis on oral disease prevention and health promotion for the older adult.

I am the faculty of record for N295B: Care of Older Adults, one of our core gerontological nursing courses, and concur with my departmental colleagues in welcoming future MSDH graduate students to participate in the both N295A and N295B. Integrating two dental hygiene graduate students into our graduate nursing courses will help us to meet our goal of fostering interdisciplinary teaching and learning opportunities designed to improve care for older adults. I believe this partnership will be mutually beneficial for both the School of Dentistry and the School of Nursing. I look forward to working together toward this end.

Sincerely,

Lynda A. Mackin
Associate Clinical Professor
Co-Director, UCSF Gerontological Advanced Practice Nursing Program
William F. Bird, DDS, DPh
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Paraveus
San Francisco, CA 94143-0758

Dear Dr. Bird:

I am pleased to support the development of the Dental Hygiene Master’s Degree program. I believe that all health professions students should be policy literate, and we would welcome the students in this program within any of our existing health policy courses in the School of Nursing. I am also willing to serve as a faculty member and research preceptor for students with policy interests, particularly related to tobacco control. I believe that this program will fill a demonstrated need for graduate dental hygiene education to prepare future dental hygiene educators, leaders and research collaborators. The interdisciplinary program will be unique with its emphasis on oral disease prevention and health promotion across the lifespan.

Sincerely,

Ruth E. Malone
August 4, 2006

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

I am writing this letter to express my interest in participating in the proposed new Graduate Group in Preventive and Restorative Dental Sciences and as a faculty member of the new MSDH graduate program. I believe the proposed program fills an important open niche in graduate education at UCSF.

I am willing to participate as research preceptor, and to contribute to graduate teaching in courses where my expertise is needed. I look forward to the early establishment of this new program.

Sincerely yours,

[Signature]

Grayson W. Marshall, DDS, MPH, PhD
Professor
Walsh, Margaret

From: Pogrel Tony
Sent: Monday November 05 2007 8:47 AM
To: Walsh, Margaret
Subject: RE: MS in Dental Hygiene

Dear Peggy,

With regard to the master's degree in dental hygiene, this is just to let you know how much we support this program, and how much we would be pleased to see hygiene students back around the place. As far as the Department of Oral and Maxillofacial Surgery is concerned, I think our main areas of collaboration would be through the Dental Implant Program and through the Hospital Dentistry Program.

With regard to these, I would say the following:

**Dental Implant Program**: As you probably know, we are in the process of establishing a Multidisciplinary Dental Implant Center on the first floor of the Dental Clinics Building. This is being provided totally with moneys raised through the Department of Oral and Maxillofacial Surgery. To date, we have completed a state of the art surgical facility which is fully accredited by AAAHC and offers such services as closed circuit TV for its procedures. Although we currently have one consultation suite available, I am very hopeful that within the next year we will have raised enough resources to complete a fully functional series of consultation suites where oral surgeons, periodontists, prosthodontists, endodontists and hygienists can evaluate and follow-up implant patients. Obviously, the hygiene component of dental implants is of paramount importance. I can see the role in the initial evaluation of implant patients and also in the follow-up evaluation, and from this I would envisage a large number of clinically based, evidence based and basic research projects evolving.

The oral and maxillofacial surgery full-time faculty involved in the Multidisciplinary Implant Center are:

2. Mehran Hassani, D.M.D. Dr. Hassani is the current Director of the D-1201 Clinic and will probably become the Director of the Implant Center. He is a very active clinician with great interest in clinically based research protocol. In his three years with us he has been an incredible source of energy to our operations in the Dental Clinics Building.
3. Janice S. Lee, D.D.S., M.D., M.S. Dr. Lee will spend up to one-and-a-half days per week associated with the Dental Implant Center and is active in clinical and translational research involving bone regeneration.

The curriculum vitae of these faculty members is available through our departmental office, or on our website at [www.owfs.ucsf.edu](http://www.owfs.ucsf.edu).

**Hospital Dentistry and GPR Program**: Our Hospital Dentistry Program is one of only two in Northern California providing dental treatment for mentally and physically challenged patients as well as dental phobic patients. It is also the only one which treats patients who are welfare or Medi-Cal patients. Again, the hygiene challenges faced by these patients are enormous and require innovative
approaches. This applies to both the initial evaluation and the concept of follow-up treatment and monitoring. I can envisage (as I am sure you can) a large clinical and research component associated with this program.

The faculty members involved in this program are:

1. Frank Grimaldi, D.D.S. Dr. Grimaldi is the Director of the Hospital Dentistry and GPR Program and has been on the faculty since he completed the program himself in 1982. He is very active in continuing education and also teaching on campus, and has a number of clinically based publications to his credit.

2. Darrell Boychuk, D.D.S. Dr. Boychuk is a new (commenced 10/15/07) full time faculty member recruited from the University of Alberta in Canada, who will devote himself full-time to the Hospital Dentistry and GPR Program. He comes with an excellent track record, and we are confident that he will be a valuable resource to the program as whole, and to the Master’s Program in Dental Hygiene.

Both of their curriculum vitae are also obtainable from our departmental office or through our website.

I will be delighted to answer any other questions that you have with regard to possible involvement by our department in your new Master’s Program.

Sincerely Yours,

M. Anthony Pogrel, DDS, MD
Professor and Chairman
Department of Oral and Maxillofacial Surgery
University of California, San Francisco
521 Parnassus Avenue
Room C-522
San Francisco, CA 94143-0440
415-476-8226

From: Walsh, Margaret
Sent: Friday, October 19, 2007 11:34 AM
To: Pogrel, Tony
Cc: Bird, William; Featherstone, John; Weintraub, Jane
Subject: MS in Dental Hygiene

Hi Tony,
I just received a message from the Dean of your interest in having the Implant Center and the Hospital Dentistry and GPR Programs involved as components of our proposed MS in Dental Hygiene program. This is wonderful news and we of course welcome your involvement with great enthusiasm! Such a partnership would strengthen our program and open up lots of manually-based opportunities. Right now is the right time for such input since we are构思ing the proposal in preparation for submission to the UCSF Graduate Council. Who in your Department would I contact to schedule a time for Dr. Bird and I to meet with you to discuss your Department's involvement? I will send you a copy of the proposal very soon for review. To help us modify our proposal in a timely fashion, we would need a brief description of the Implant Center, and of the Hospital Dentistry and GPR programs, a letter of support from you as the Department Chair (saying all the wonderful things you articulated in your email to the Dean), biographies of members of your Department's faculty along with a brief letter addressed to Dr. Bird (2 or 3 sentences) from each faculty member expressing willingness to serve as a faculty member for the proposed program if approved. All faculty who submit a bio and the brief letter of commitment then will be listed on the MSDH Program Faculty Roster as potential field work mentors and guest lecturers once the program is approved. I am extremely excited about this prospect and look forward to discussing this opportunity with you in the very near future. Thanks so much for your interest and support. I look forward to hearing from you soon regarding who to contact to set up a meeting and to working with you and your faculty in the future. Best regards, Peggy

Margaret Walsh, M S, Ed D
Professor
Department of Preventive and Restorative Dental Sciences
UCSF School of Dentistry
3333 California St, Suite 495
San Francisco, CA 94143-1361

(415) 476-9883
(415) 502-4487 FAX
September 25, 2006

William F. Bird, DDS, DrPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Bill,

I am strongly in support of your proposal to form a Graduate Group in Preventive and Restorative Dental Sciences and a program of graduate studies in Dental Hygiene at UCSF for the M.S. degree.

I am definitely interested in participating as a member of the Graduate Group in Preventive and Restorative Dental Sciences and as a faculty member of the Dental Hygiene Master of Science Degree Program. I look forward to contributing to the program either through teaching, being a research mentor or in some other capacity.

Sincerely,

Howard Pollick
Clinical Professor
May 16, 2008

Bill Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

I strongly support your proposal to form a program of graduate studies in Dental Hygiene at UCSF for the M.S. degree.

I am indeed interested in participating in the Dental Hygiene Master of Science Degree Program. I look forward to contributing to the program either through teaching, being a research mentor or in some other capacity.

Yours truly,

Mark L. Ryder DMD
Professor and Chair
Division of Periodontology
Director, Postgraduate Program in Periodontology
William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird,

I am writing this letter to express my enthusiastic support and interest in the proposal for a Graduate Group in Preventive and Restorative Dental Sciences and for a new graduate program leading to a Master of Science Degree in Dental Hygiene.

I am willing to participate as research preceptor and/or as a professional educator preceptor. As the Director of the Oral Medicine Clinical Center (OMCC), I coordinate clinical rotations through our clinic. As you know, in the OMCC we diagnose and manage a great variety of oral mucosal diseases and we perform oral/dental evaluations prior to head and neck radiation therapy for the Radiation Oncology Unit in the School of Medicine. We also conduct a variety of clinical trials and studies, often in collaboration with investigators in the School of Medicine. This offers the opportunity for graduate students in your program to get involved in various clinical activities and research projects, and we would enthusiastically welcome them to do so. In addition, I will contribute to graduate teaching in courses where my expertise is needed.

Sincerely,

Caroline Shiboski, DDS, PhD.,
Associate Professor
Director Oral Medicine Clinical Center
Tel: (415)476-5976
Fax: (415)476-4204
E-mail: caroline.shiboski@ucsf.edu
September 13, 2006

Bill Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA  94143-0758

Dear Dr. Bird:

I strongly support your proposal to form a Graduate Group in Preventive and Restorative Dental Sciences and a program of graduate studies in Dental Hygiene at UCSF for the M.S. degree.

I am indeed interested in participating as a member of the Graduate Group in Preventive and Restorative Dental Sciences and as a faculty member of the Dental Hygiene Master of Science Degree Program. I look forward to contributing to the program either through teaching, being a research mentor or in some other capacity.

Sincerely,

Steven J. Silverstein, DMD, MPH
Professor
September 12, 2006

Dr. William Bird
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco

Dear Dr. Bird:

I strongly support your proposal to form a program of graduate studies in Dental Hygiene at UCSF for the Master of Science degree.

The multidisciplinary and collaborative nature of the proposed M.S. degree in Dental Hygiene is responsive to the current and projected need for dental hygiene educators in California and nationwide.

I am willing to mentor UCSF MSDH students in the elective courses designed to provide Advanced Clinical Practice and Dental Public Health Preceptorships. In addition, La Clinica will serve as a supportive environment for dental hygiene graduate students to pursue their interests which coincide with the oral health care services we provide. The mission of La Clinica is to improve the quality of life of the diverse communities we serve by providing culturally appropriate, high quality and accessible health care for all. Participation in preceptorships at La Clinica will provide an array of experiences which will assist in preparing UCSF MSDH graduates for leadership positions in academic and public health settings.

Sincerely,

Norma Solarz, DDS, MPH
Assistant to the Dental Director
Bill Bird, DDS, DPH  
Interim Department Chair  
Department of Preventive and Restorative Dental Sciences  
University of California, San Francisco  
707 Parnassus  
San Francisco, CA 94143-0758

Dear Dr. Bird:

I enthusiastically support your proposal to for a Graduate Group in Preventive and Restorative Dental Sciences and a program of graduate studies in Dental Hygiene at UCSF for a Master of Science degree.

I am very interested in participating as a member of this Graduate Group both as a faculty member and an advisor in public health for this Dental Hygiene Master of Science Degree Program. I look forward to contributing to the program in as many ways as possible including teaching, a research mentor, advisor, and all around helper!

Sincerely,

[Signature]

Samantha Stephen, MS, RDH  
Director of Dental Services

30 Van Ness Avenue, Suite 2300  
San Francisco, CA 94102  
Phone (415) 581-2409  Fax (415) 581-2499
September 1, 2006

William F. Bird, DDS, DrPH
Interim Department Chair

Dear Dr. Bird,

As a researcher and educator in the field of Dental Hygiene, I enthusiastically support the proposed UCSF Master of Science Degree in Dental Hygiene. When this program is approved, I would be honored to serve as the first MSDH Program Director. I understand this position would include having primary responsibility for student recruitment, supervising the existing 200 level Dental Hygiene courses, and overseeing the required Education and Research Preceptorship courses.

Because basic preparation dental hygiene educational programs are expanding, there is a strong need for qualified faculty and administrators to teach and direct these professional programs. The proposed new MSDH program would be responsive to the documented current and projected future shortage of dental hygiene educators and would be the only MSDH program offered in California. Moreover, the proposed interdisciplinary program would be unique with its emphasis on the study of oral disease prevention and health promotion across the lifespan.

Sincerely,

[Signature]

Margaret M. Walsh, RDH, MS, MA, EdD
Professor
September 6, 2006

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

I strongly support the proposal for a new graduate program leading to a Master of Science Degree in Dental Hygiene and a Graduate Group in Preventive and Restorative Dental Sciences to support this program. There is a great need for training future dental hygiene educators and research collaborators. This well-designed multi-disciplinary program has the potential to be a model for others.

I am willing to participate as research preceptor and mentor. Students may take the DPH210 Research Methods and Design course that I direct during the Summer Quarter along with other MS and advanced dental education students.

Sincerely,

Jane A. Weintraub, DDS, MPH
Lee Hysan Professor and Chair,
Division of Oral Epidemiology and Dental Public Health
September 27, 2006

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Bill,

As a faculty member and Associate Dean for Clinic Administration, I will support and participate in the proposed new Graduate Group in Preventive and Restorative Dental Sciences and in the Dental Hygiene Master’s Degree program. I plan to support the new program’s activities by serving as a faculty member and research preceptor. In addition, as needed, clinic administration will work with the program to fit it’s needs within our existing space and facilities. My area of research interest and previous experience in applied and clinical research will provide opportunities and fits in well with the aims of the proposed curriculum. Our extensive patient care services and rich data that it provides will help graduates within this program participate in dental health care services research. I believe that this program will fill a demonstrated need for graduate dental hygiene education to prepare future dental hygiene educators, leaders and research collaborators. The interdisciplinary program will be unique with its emphasis on oral disease prevention and health promotion across the lifespan, with a special emphasis on the older adult.

Sincerely,

Joel M. White, DDS, MS
Professor
Department of Preventive and Restorative Dental Sciences
Associate Dean, Clinic Administration
School of Dentistry
University of California, San Francisco
707 Parnassus Avenue
San Francisco, CA 94143-0758
August 4, 2006

William F. Bird, DDS, DPH
Interim Department Chair
Department of Preventive and Restorative Dental Sciences
University of California, San Francisco
707 Parnassus
San Francisco, CA 94143-0758

Dear Dr. Bird:

As Campus Planner of the UCSF Academic Geriatric Resource Program, I enthusiastically support the proposed UCSF Master of Science Degree in Dental Hygiene (MSDH) program. I look forward to participating as a faculty member and colleague to support the curriculum focusing on oral health and aging. My areas of expertise, UCSF Academic Geriatric Resource Center responsibilities, and my association with other centers/institutes conducting research and education related to the older adult contribute to my desire to participate in the MSDH program to prepare critically necessary academic leadership and geriatric capacity for dental hygiene education.

Sincerely,

[Signature]

Joan B. Wood, PhD
Professor, Departments of Social and Behavioral Sciences and Medicine
Campus Planner, UCSF Academic Geriatric Resource Center
Associate Director, UCSF/Mt. Zion Center on Aging
Appendix I

Draft Course Forms
Use this form for substantive changes. Use the short course form for minor changes. 
Please refer to [http://www.ucsf.edu/senate/courseactions/tutorial.html](http://www.ucsf.edu/senate/courseactions/tutorial.html) for further information.

<table>
<thead>
<tr>
<th>School</th>
<th>Department/Division</th>
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<tbody>
<tr>
<td>School of Dentistry/Graduate Division</td>
<td>PRDS/Oral Epidemiology &amp; Dental Public Health</td>
</tr>
</tbody>
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<table>
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<th>Approval of new course</th>
<th>Beginning Quarter</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
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<td>2009</td>
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<table>
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<th>Change in course</th>
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<table>
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<th>Reinstatement of course</th>
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<td>[ ]</td>
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</tbody>
</table>

<table>
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<tr>
<th>Subject (Department or Program Name)</th>
<th>Number</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental Hygiene</td>
<td>DH 200A</td>
<td>3</td>
</tr>
</tbody>
</table>

**Title (50 characters maximum):** 
DH 200A Dental Hygiene Science Seminar

**Quarter(s) offered:**

- [ ] FA
- [ ] WI
- [ ] SP
- [ ] SU
- [ ] VA
- [ ] LHS
- [ ] Mission Bay
- [ ] China Basin
- [ ] Fresno
- [ ] Other (specify):

**Location(s):**

- [ ] Pamassus
- [ ] SFGH
- [ ] Mt. Zion
- [ ] Other (specify):

**Prerequisites (courses, knowledge required):**

None

**Restrictions (For whom is this course intended i.e. type of student, instructor approval):**

None

**Duration of course**

- Minimum number of weeks: 10
- Maximum number of weeks: 10

**Calculation of Units** (write the # of hours per week per activity)

Section 1: For the activity listed in this section 1 unit = 1 hour per week (maximum of 10 hours per quarter per unit)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>2</td>
</tr>
</tbody>
</table>

Section 2: For the activities listed in this section: 1 unit = 3 hours per week (maximum of 30 hours per quarter per unit)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
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<td>Clinical experience/Patient contact</td>
<td>2</td>
</tr>
<tr>
<td>Conference</td>
<td>1</td>
</tr>
<tr>
<td>Field work</td>
<td>3</td>
</tr>
<tr>
<td>Independent study</td>
<td></td>
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<tr>
<td>Lab</td>
<td></td>
</tr>
<tr>
<td>Project</td>
<td></td>
</tr>
</tbody>
</table>

Section 3: For the activities listed in this section: 1.5 units = 8 hours per day for 1 week (40 hours total per 1.5 unit)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Block Elective</td>
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</table>

**Other (specify):**

- Clinical clerkship

**Calculation of Total Units** (sum of [# of weeks x hours per week per activity x unit calculation formula for activity]):

3

**Explanation of Calculation** (only complex calculations need explanation):

- Seminar Contact Time
- Seminar Work Time
- Seminar (Total Hours Spent)
- Web-based course work
- Workshop

**May this course be repeated for credit? If so, under what circumstances?**

- [ ] Yes
- [ ] No

**Can this course be offered for graduate academic credit? (for degrees earned in the Graduate Division)**

- [ ] Yes
- [ ] No

Revised: March 2007
Critical analyses of contemporary theories and conceptual frameworks of dental hygiene science as they relate to dental hygiene roles in oral disease prevention and health promotion and dental hygiene schools of thought. Emphasis will be on case-based learning about problems of interest to the students. Each course section will have individual content developed by the professor and the students collaboratively to assure that the specific needs of students in the program competencies are met.

**Justification for the Course Request and Comments:**

UCSF School of Dentistry PRDS offers a Master of Science Degree in Dental Hygiene upon completion of fourteen required courses (36 units) and a comprehensive examination (i.e. capstone project). New Dental Hygiene core courses will focus on: Dental Hygiene Science, Dental Hygiene Curriculum Development and Methods of Instruction, Dental Hygiene and Oral Disease Prevention and Management by Risk Assessment. In addition, Dental Hygiene field work with a mentor in a partnering institution will occur during the Winter Quarter. Critical analysis and leadership are emphasized.

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<th>Course requirements (Mark all that apply):</th>
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<th>Course grading convention (Mark appropriate option):</th>
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</thead>
<tbody>
<tr>
<td>Class Participation</td>
<td>Written Examination</td>
<td>Letter only</td>
</tr>
<tr>
<td>Oral Examination</td>
<td>Written Report(s)</td>
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</tr>
<tr>
<td>Written Examination</td>
<td>Case Presentation</td>
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<tr>
<td>Oral Presentation</td>
<td>Attendance</td>
<td>In addition to above:</td>
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<td>Original Paper</td>
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<td></td>
<td>Portfolio materials</td>
<td>(Available only for School of Medicine 3 &amp; 4 or School of Dentistry)</td>
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</table>

*Prepared by:*

**Name**

**Email address**

**TBN**

**Date**

**Mail Box #**

**Phone #**

**Date**

**Authorized by:**

Chair of Department/Division's Signature

**Approved by:**

**School Curriculum Committee**

**Dean of School**

**Committee on Courses of Instruction**

Office of Admissions and Registrar

**Date**

**Date**

**Date**

**Date**

*Please submit the original course form and 13 copies of each original course form.*
Course Objectives:

Subject: Dental Hygiene
Number: DH 200A

Specify in terms of knowledge, skills, or practices to be developed. Objectives should be measurable and student-focused using language from Bloom’s Taxonomy (see “Skill’s Demonstrated” http://www.coun.uvic.ca/learn/program/findouts/bloom.html). Please number each objective.

Upon completion of this course, a student will be able to:

1. Understand the application of Dental Hygiene’s paradigm concepts of Dental Hygiene Actions, Health/Oral Health, the Environment, and the Client, to dental hygiene research, education, and practice.
2. Understand the social, cultural, political, educational, economic, and environmental determinants of health/oral health and their effect on health disparities.
3. Cite examples of groups with oral health disparities.
4. Explain at least one oral disease prevention or health promotion theory and apply that theory to a dental hygiene problem.
5. Cite types of quantitative and qualitative tools used to measure outcomes of health promotion and disease prevention research and select a tool for use to solve a dental hygiene problem.
6. Describe the principles and evaluation criteria for community participatory research.
7. Review the evidence of effectiveness of brief health promotion interventions that involve healthcare professionals in areas such as smoking cessation, nutritional counseling, oral cancer screening, and blood pressure monitoring.
8. Incorporate related evidence from clinical research in oral health and disease, dental public health, behavioral and social sciences, and health policy information to study a selected dental hygiene problem.
9. Incorporate material from the content of courses into development of a draft framework of a written scholarly field project proposal.
General Course Form

Use this form for substantive changes. Use the short course form for minor changes. Please refer to [http://www.ucsf.edu/senate/courseactions/tutorial.html](http://www.ucsf.edu/senate/courseactions/tutorial.html) for further information.

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<table>
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<th>Beginning Quarter</th>
<th>Year</th>
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<td>☑ Yes</td>
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<table>
<thead>
<tr>
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</table>

**Subject (Department or Program Name):**

- Dental Hygiene

**Title (60 characters maximum):**

- DH 200B Dental Hygiene Science Seminar

**Quarter(s) offered:**

- FA
- WM
- SP
- SU
- Other (specify):

**Location(s):**

- Panassus
- SFGH
- Mt. Zion
- China Basin
- Other (specify):

**Prerequisites (courses, knowledge required):**

- None

**Restrictions (For whom is this course intended, e.g., type of student, instructor approval):**

- None

**Duration of course:**

- Minimum number of weeks: 10
- Maximum number of weeks: 30

**Calculation of Units (write the # of hours per week per activity):**

**Section 1:** For the activity listed in this section 1 unit = 1 hour per week (maximum of 10 hours per quarter per unit)

- Lecture: 2

**Section 2:** For the activities listed in this section: 1 unit = 3 hours per week (maximum of 30 hours per quarter per unit)

- Clinical experience/Patient contact: 2
- Conference: 1
- Field work: 3
- Independent study
- Lab
- Project

**Section 3:** For the activities listed in this section: 1.5 units = 8 hours per day for 1 week (40 hours total per 1.5 unit)

- Block Elective
- Clinical clerkship

**Calculation of Total Units (sum of [# of weeks x hours per week per activity x unit calculation formula for activity]):**

- 3

**Explanation of Calculation (only complex calculations need explanation):**

- May this course be repeated for credit? If so, under what circumstances?
  - Yes ☑ Yes □ No

- Can this course be offered for graduate academic credit? (for degrees earned in the Graduate Division)
  - Yes ☑ Yes □ No

Revised: March 2007
Instructor(s):

Instructor of record (printed name and signature required of instructor with administrative responsibility)

Printed Name: Margaret Walsh
Signature: 
Payroll Title: Professor
Department: PRDS

Other instructor(s) (printed name) (for additional space, use COMMENTS section)
Printed Name: 
Payroll Title: 
Department: 

Description (not to exceed 500 characters, including spaces - approximately 85 words):
Critical analyses of contemporary theories and conceptual frameworks of dental hygiene science as they relate to dental hygiene roles in oral disease prevention and health promotion and dental hygiene schools of thought. Emphasis will be on case-based learning about problems of interest to the students. Each course section will have individual content developed by the professor and the students collaboratively to assure that the specific needs of students in the program competencies are met.

Justification for the Course Request and Comments:
UCSF School of Dentistry PRDS offers a Master of Science Degree in Dental Hygiene upon completion of fourteen required courses (36 units) and a comprehensive examination (i.e., capstone project). New Dental Hygiene core courses will focus on: Dental Hygiene Science, Dental Hygiene Curriculum Development and Methods of Instruction, Dental Hygiene and Oral Disease Prevention and Management by Risk Assessment. In addition, Dental Hygiene field work with a mentor in a partnering institution will occur during the Winter Quarter. Critical analysis and leadership are emphasized.

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<td>☑ Other (specify): Portfolio materials, Field Project Proposal</td>
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* Prepared by:
Name: 
Email address: 
TBN: 
Date: 
Mail Box #: 
Phone #: 

* Authorized by:
Chair of Department/Division's Signature:
Date: 

* Approved by:
School Curriculum Committee: 
Dean of School: 
Committee on Courses of Instruction: 
Office of Admissions and Registrar: 
Date: 

* Course catalog update by:
Office of Admissions and Registrar: 
Date: 

* Please submit the original course form and 13 copies of each original course form.
Course Objectives:

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<td>DH 200B</td>
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Specify in terms of knowledge, skills, or practices to be developed. Objectives should be measurable and student-focused using language from Bloom’s Taxonomy (see “Skill’s Demonstrated” http://www.coun.uvic.ca/learm/program/handouts/bloom.html). Please number each objective.

Upon completion of this course, a student will be able to:

1. Incorporate material from the content of courses into development of a final written field project proposal
2. Compete the Oral Qualifying Exam to gain approval of their field project proposal for implementation in the Winter Quarter
General Course Form

Use this form for substantive changes. Use the short course form for minor changes.
Please refer to [http://www.ucsf.edu/senate/courseactions/tutorial.html](http://www.ucsf.edu/senate/courseactions/tutorial.html) for further information.

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<td>PRDS/Oral Epidemiology &amp; Dental Public Health</td>
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</table>

- **Approval of new course**
  - Beginning Quarter: VII  
  - Year: 2010
- **Change in course**
  - Beginning Quarter: --  
  - Year: --
- **Reinstatement of course**
  - Quarter: --  
  - Year: --

**Subject (Department or Program Name):**  
- Dental Hygiene

**Title (60 characters maximum):**  
- DH 200C Dental Hygiene Science Seminar

**Quarter(s) offered:**  
- FA
- Wi
- SP
- SU

**Location(s):**  
- Panasus
- SFGH
- MT Zion
- Mission Bay
- China Basin
- Fresno
- Other (specify)

**Prerequisites (courses, knowledge required):**  
- None

**Restrictions (For whom is this course intended i.e. type of student, instructor approval):**  
- None

**Duration of course:**  
- Minimum number of weeks: 10  
- Maximum number of weeks: --

**Calculation of Units (write the # of hours per week per activity):**

- **Section 1:** For the activity listed in this section 1 unit = 1 hour per week (maximum of 10 hours per quarter per unit)
  - Lecture 2

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  - Conference 1
  - Field work 3
  - Independent study
  - Lab
  - Project

- **Section 3:** For the activities listed in this section: 1.5 units = 8 hours per day for 1 week (40 hours total per 1.5 unit)
  - Block Elective
  - Clinical clerkship

**Other (specify):**

- Calculation of Total Units (sum of [# of weeks x hours per week per activity x unit calculation formula for activity])
  - 3

**Explanation of Calculation (only complex calculations need explanation):**

- May this course be repeated for credit? If so, under what circumstances?  
  - Yes [☑]  
  - No [□]

- Can this course be offered for graduate academic credit? (for degrees earned in the Graduate Division)
  - Yes [☑]
  - No [□]

Revised: March 2007
**Instructor(s):**

**Instructor of record** (printed name and signature required of instructor with administrative responsibility)

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<tr>
<th>Printed Name</th>
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<tbody>
<tr>
<td>Margaret Walsh</td>
<td></td>
<td>Professor</td>
<td>PRDS</td>
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**Description** (not to exceed 500 characters, including spaces - approximately 85 words):

Critical analyses of contemporary theories and conceptual frameworks of dental hygiene science as they relate to dental hygiene roles in oral disease prevention and health promotion and dental hygiene schools of thought. Emphasis will be on case-based learning about problems of interest to the students. Each course section will have individual content developed by the professor and the students collaboratively to assure that the specific needs of students in the program competencies are met.

**Justification for the Course Request and Comments:**

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*Prepared by:*

Name

Email address

TBN

**Authorized by:**

Chair of Department/Division's Signature

**Date**

**Mail Box #**

**Phone #**

**Approved by:**

School Curriculum Committee

Dean of School

Committee on Courses of Instruction

Office of Admissions and Registrar

**Date**

**Date**

**Date**

**Date**

*Please submit the original course form and 13 copies of each original course form.*
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Specify in terms of knowledge, skills, or practices to be developed. Objectives should be measurable and student-focused using language from Bloom's Taxonomy (see “Skill’s Demonstrated” [http://www.coun.uvic.ca/learn/program/hndouts/bloom.html](http://www.coun.uvic.ca/learn/program/hndouts/bloom.html)). Please number each objective.

Upon completion of this course, a student will be able to:

1. Complete as the Capstone Project an oral and written scholarly report of the Field Project’s outcomes and potential applications.
2. Demonstrate proficiency in oral communication when delivering professional presentations related to the Field Project.
3. Describe job access points in dental hygiene in a variety of different settings.
Use this form for substantive changes. Use the short course form for minor changes. Please refer to http://www.ucsf.edu/sona/courseactions/tutorial.html for further information.

SCHOOL OF DENTISTRY/GRADE DIVISION

<table>
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<th>Approval of new course</th>
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SUBJECT (DEPARTMENT OR PROGRAM NAME)

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TITLE (60 CHARACTERS MAXIMUM)

DH201, Dental Hygiene Curriculum and Instruction

<table>
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<td>SFGH</td>
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<td>SP</td>
<td>Mt. Zion</td>
<td></td>
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<td>SU</td>
<td>China Basin</td>
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QUARTER OFFERED

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PREREQUISITES (COURSES, KNOWLEDGE REQUIRED)

None

RESTRICTIONS (FOR WHOM IS THIS COURSE INTENDED, I.E. TYPE OF STUDENT, INSTRUCTOR APPROVAL)

None

DURATION OF COURSE

Minimum number of weeks: 10
Maximum number of weeks: 10

CALCULATION OF UNITS (WRITE THE # OF HOURS PER WEEK PER ACTIVITY)

Section 1: For the activity listed in this section, 1 unit = 1 hour per week (maximum of 10 hours per quarter per unit)

| 2 | Lecture |

Section 2: For the activities listed in this section, 1 unit = 3 hours per week (maximum of 30 hours per quarter per unit)

<table>
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<tr>
<th>Clinical experience/Patient contact</th>
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<tbody>
<tr>
<td>Conference</td>
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Section 3: For the activities listed in this section, 1.5 units = 8 hours per day for 1 week (40 hours total per 1.5 unit)

| Block Elective                      | Clinical clerkship |

OTHER (SPECIFY)

Calculation of Total Units (Sum of [# of weeks x hours per week per activity x unit calculation formula for activity]):

3

Explanation of Calculation (Only complex calculations need explanation):

May this course be repeated for credit? If so, under what circumstances?

☑ Yes ☐ No

Can this course be offered for graduate academic credit? (For degrees earned in the Graduate Division)

☑ Yes ☐ No

Revised: March 2007
Instructor(s): 

Instructor of record (printed name and signature required of instructor with administrative responsibility) 

Printed Name 
Margaret Walsh 
Signature 

Payroll Title 
Professor 
Department 
PRDS 

Other Instructor(s) (printed name) (for additional space, use COMMENTS section) 

Printed Name 
Payroll Title 
Department 

Description (not to exceed 500 characters, including spaces - approximately 85 words): 

Critical appraisal of various theories and schools of thought in dental hygiene that drive curriculum development in basic preparation dental hygiene educational programs. In case presentations of dental hygiene curriculae, students will critically evaluate the fit of program philosophy, conceptual framework, goals, outcomes, learning methods, assessments, and competencies that drive curriculum design. Theories of the teaching-learning process and their application to education are included. 

Justification for the Course Request and Comments: 

UCSF School of Dentistry PRDS offers a Master of Science Degree in Dental Hygiene upon completion of fourteen required courses (36 units) and a comprehensive examination (i.e. capstone project). New Dental Hygiene core courses will focus on: Dental Hygiene Science, Dental Hygiene Curriculum Development and Methods of Instruction, Dental Hygiene and Oral Disease Prevention and Management by Risk Assessment. In addition, Dental Hygiene field work with a mentor in a partnering institution will occur during the Winter Quarter. Critical analysis and leadership are emphasized. 

Course requirements 
(Mark all that apply): 

☐ Class Participation 
☐ Oral Examination 
☐ Written Examination 
☐ Written Report(s) 
☐ Case Presentation 
☐ Direct Observation of Clinical Performance 
☐ Oral Presentation 
☐ Original Paper 
☐ Attendance 
☐ Other (specify): 

Used to Evaluate Student Performance 
(Mark all that apply): 

☐ Letter only 
☐ P/NP only (Pass/Not Pass) 
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☐ Letter or P/NP or S/U 
☐ In Progress, grade to be assigned quarter. 

In addition to above: 
☐ Honors can be earned 
(Available only for School of Medicine 3 & 4 or School of Dentistry) 

Course grading convention 
(Mark appropriate option): 

☐ Other (specify): 
Portfolio materials 

* Prepared by: 

Name 
Email address 

TBN 

Date 
Mail Box # 
Phone # 

Authorized by: 

Chair of Department/Division's Signature 

Course catalog update by: 

School Curriculum Committee 
Dean of School 
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Office of Admissions and Registrar 

Date 
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<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental Hygiene</td>
<td>DH 201</td>
</tr>
</tbody>
</table>

Specify in terms of knowledge, skills, or practices to be developed. Objectives should be measurable and student-focused using language from Bloom's Taxonomy (see “Skill’s Demonstrated” [http://www.coun.uvic.ca/learn/program/hndouts/bloom.html](http://www.coun.uvic.ca/learn/program/hndouts/bloom.html)). Please number each objective.

Upon completion of this course, a student will be able to:

1. Develop a basic preparation dental hygiene program model that is based on a selected school of thought regarding Dental Hygiene Paradigm Concepts and map program goals, outcomes, learning methods, assessments and competencies.
2. Understand the Commission on Dental Accreditation’s “Accreditation Standards for Dental Hygiene Education Programs” required for basic preparation dental hygiene programs.
3. Understand the application of theories of the teaching-learning process in various educational settings.
4. Demonstrate proficiency in oral communication skills.
5. Understand concepts underlying testing, measurement, reliability and validity.
# General Course Form

Use this form for substantive changes. Use the short course form for minor changes. Please refer to [http://www.ucsf.edu/senate/courseactions/tutorial.html](http://www.ucsf.edu/senate/courseactions/tutorial.html) for further information.

<table>
<thead>
<tr>
<th>School</th>
<th>Department/Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Dentistry/Graduate Division</td>
<td>PRDS/Oral Epidemiology &amp; Dental Public Health</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approval of new course</th>
<th>Beginning Quarter</th>
<th>FA</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change in course</td>
<td>Beginning Quarter</td>
<td>-</td>
<td>Year</td>
</tr>
<tr>
<td>Reinstatement of course</td>
<td>Quarter Last Offered</td>
<td>-</td>
<td>Year</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject (Department or Program Name)</th>
<th>Number</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental Hygiene</td>
<td>DH 202</td>
<td>4</td>
</tr>
</tbody>
</table>

**Title (60 characters maximum)**

DH202, Oral Disease Prevention/Management by Risk Assessment

**Quarter(s) offered:**
- [x] FA
- [ ] WI
- [ ] SP
- [ ] SU

**Location(s):**
- [x] Parmassus
- [ ] VA
- [ ] SFGH
- [ ] LHS
- [ ] Mission Bay
- [ ] China Basin
- [ ] Fresno
- [ ] Other (specify):

**Prerequisites (courses, knowledge required):**

None

**Restrictions (For whom is this course intended i.e. type of student, instructor approval):**

None

**Duration of course**

Minimum number of weeks 10

Maximum number of weeks

**Calculation of Units**

(Write the # of hours per week per activity)

<table>
<thead>
<tr>
<th>Section 1: For the activity listed in this section</th>
<th>1 unit = 1 hour per week (maximum of 10 hours per quarter per unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Lecture</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 2: For the activities listed in this section</th>
<th>1 unit = 3 hours per week (maximum of 30 hours per quarter per unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical experience/Patient contact</td>
<td>2 Seminar Contact Time</td>
</tr>
<tr>
<td>Conference</td>
<td>1 Seminar Work Time</td>
</tr>
<tr>
<td>Field work</td>
<td>3 Seminar (Total Hours Spent)</td>
</tr>
<tr>
<td>Independent study</td>
<td>Web-based course work</td>
</tr>
<tr>
<td>Lab</td>
<td>Workshop</td>
</tr>
<tr>
<td>Project</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 3: For the activities listed in this section</th>
<th>1.5 units = 8 hours per day for 1 week (40 hours total per 1.5 unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block Elective</td>
<td>Clinical clerkship</td>
</tr>
</tbody>
</table>

**Other (specify):**

**Calculation of Total Units**

(sum of # of weeks x hours per week per activity x unit calculation formula for activity)

4

**Explanation of Calculation**

(only complex calculations need explanation)

May this course be repeated for credit? If so, under what circumstances?

- [x] Yes
- [ ] No

Can this course be offered for graduate academic credit? (for degrees earned in the Graduate Division)

- [x] Yes
- [ ] No

Revised: March 2007
Instructor(s):

Instructor of record (printed name and signature required of instructor with administrative responsibility)

Printed Name: Margaret Walsh
Signature: 
Payroll Title: Professor
Department: PRDS

Other Instructor(s) (printed names; for additional space, use COMMENTS section)

Printed Name: 
Payroll Title: 
Department: 

Description (not to exceed 500 characters, including spaces - approximately 85 words):

Course provides the theoretical basis for associations between oral infections and systemic disease, a comprehensive foundation for a team approach to the prevention and management of oral health problems by risk assessment across the lifespan; and the role of dental hygiene actions. In addition, literature on methods employed for dissemination of evidence-based strategies to health care professionals and the public are reviewed.

Justification for the Course Request and Comments:

UCSF School of Dentistry PRDS offers a Master of Science Degree in Dental Hygiene upon completion of fourteen required courses (36 units) and a comprehensive examination (capstone project). New Dental Hygiene core courses will focus on: Dental Hygiene Science, Dental Hygiene Curriculum Development and Methods of Instruction, Dental Hygiene and Oral Disease Prevention and Management by Risk Assessment. In addition, Dental Hygiene field work with a mentor in a partnering institution will occur during the Winter Quarter. Critical analysis and leadership are emphasized.

<table>
<thead>
<tr>
<th>Course requirements (Mark all that apply)</th>
<th>Used to Evaluate Student Performance (Mark all that apply)</th>
<th>Course grading convention (Mark appropriate option)</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Class Participation</td>
<td>☑ Written Examination</td>
<td>☑ Letter only</td>
</tr>
<tr>
<td></td>
<td>☑ Written Report(s)</td>
<td>☑ P/NP only (Pass/Not Pass)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☑ SU/U only (Satisfactory/Unsatisfactory)</td>
</tr>
<tr>
<td>☑ Case Presentation</td>
<td></td>
<td>☑ P/NP or SU/U</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☑ Letter or P/NP or SU/U</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☑ In Progress, grade to be assigned quarter.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☑ Oral Presentation</td>
<td>☑ Original Paper</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☑ Attendance</td>
<td></td>
</tr>
<tr>
<td>☐ Other (specify):</td>
<td>☑ Other (specify): Portfolio materials</td>
<td></td>
</tr>
</tbody>
</table>

* Prepared by:
Name: 
Email address: 
TBN: 

Authorized by:
Chair of Department/Division's Signature: 

Date: 

Mail Box #: Phone #: 

Approved by:
School Curriculum Committee: 
Dean of School: 
Committee on Courses of Instruction: 
Office of Admissions and Registrar: 

Date: 

Date: 

Date: 

Date: 

* Please submit the original course form and 13 copies of each original course form.
Course Objectives:

Subject: Dental Hygiene  
Number: DH 202

Specify in terms of knowledge, skills, or practices to be developed. Objectives should be measurable and student-focused using language from Bloom’s Taxonomy (see “Skill’s Demonstrated” http://www.coun.uvic.ca/learn/program/hndouts/bloom.html).

Please number each objective:

Upon completion of this course, a student will be able to:

1. Understand the biologic basis for the interdependence of oral inflammation and infections with systemic health
2. Understand the relationship of oral health to overall health, especially with regard to potential associations between periodontal infections and the following adverse systemic outcomes:
   a. Heart diseases (infective endocarditis, atherosclerosis, and coronary heart disease)
   b. Diabetes mellitus (onset and control)
   c. Pulmonary disease (aspiration and ventilator-associated pneumonia; chronic obstructive pulmonary disease)
   d. Adverse pregnancy outcomes (preterm birth; preeclampsia; fetal growth restriction)
   e. Arthritis and failure of artificial joints
   f. Cancer (pancreatic cancer; lung cancer; and stomach cancer)
   g. Neurological diseases (cerebrovascular disease; nonhemorrhagic stroke; brain abscess; Alzheimer’s disease; and meningitis)
   h. Gastrointestinal diseases (gastric ulcers; stomach cancer)
3. Evaluate examples of effective dental hygiene health promotion interventions to enhance the public’s understanding of the beneficial effects of regular oral self-care and regular dental hygiene care on systemic health
4. Appreciate the importance of achieving a balance between pathologic factors and preventive factors in caries prevention and management interventions
5. Understand the principles of strategies for caries management related to the tooth, diet, acid, saliva, bacteria, client education (which includes the individual, family, and communities)
6. Know the differences for anticipatory guidance and management of caries by risk assessment for the following groups:
   a. Adults; low, moderate, high and extreme caries risk categories
   b. Pregnant women: low, moderate, high, and extreme caries risk categories
   c. Children 0 to 5 years of age
   d. Children 6 to 18 years of age
   e. Older adults
7. Integrate information obtained from case-based presentations to explain how smoking, poor oral hygiene, genotype-positive status, and diabetes mellitus modulated periodontal disease susceptibility and influenced its onset, progression, and severity
8. Review the dental hygiene literature and critically appraise dental hygiene health promotion strategies to communicate the relationship of risk factors for oral disease to individual clients, other health professions, and the public at large
9. Discuss theories of aging
10. Describe prevalent chronic diseases associated with aging and discuss the implications for oral health care
11. Identify age-related oral changes commonly found in the older adult
12. Discuss oral changes that occur as a result of diseases or medications
13. Explain potential alterations in the dental hygiene process of care that need to be considered when treating an older adult
14. Explain health promotion strategies based on older adults’ needs.
**General Course Form**

Use this form for substantive changes. Use the short course form for minor changes. Please refer to [http://www.ucsf.edu/senate/courseactions/tutorial.html](http://www.ucsf.edu/senate/courseactions/tutorial.html) for further information.

<table>
<thead>
<tr>
<th>School</th>
<th>Department/Division</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Approval of new course**
- **Beginning Quarter**: WI
- **Year**: 2010

**Change in course**
- **Beginning Quarter**: __
- **Year**: __

**Reinstatement of course**
- **Quarter Last Offered**: __
- **Year**: __

**Subject (Department or Program Name)**
- **Number**: __
- **Units**: __

**Title (60 characters maximum)**: DH 203, Dental Hygiene Field Work

**Quarter(s) offered**
- **FA**
- **WI**
- **SP**
- **SU**

**Location(s):**
- **Parnassus**: __
- **VA**: __
- **SFGH**: __
- **LHS**: __
- **Mt. Zion**: __
- **Mission Bay**: __
- **China Basin**: __
- **Fresno**: __
- **Other (specify)**: DH Ed. Programs/Comm.

**Prerequisites (courses, knowledge required):**
- Advancement to Candidacy

**Restrictions (For whom is this course intended i.e. type of student, instructor approval):**
- Must be enrolled in the Master of Science in Dental Hygiene Program

**Duration of course**
- **Minimum number of weeks**: 10
- **Maximum number of weeks**: __

**Calculation of Units** (write the # of hours per week per activity)

**Section 1:** For the activity listed in this section 1 unit = 1 hour per week (maximum of 10 hours per quarter per unit)
- **Lecture**: __

**Section 2:** For the activities listed in this section: 1 unit = 3 hours per week (maximum of 30 hours per quarter per unit)
- **Clinical experience/Patient contact**: __
- **Conference**: __
- **Field work**: 12
- **Independent study**: __
- **Lab**: __
- **Project**: __
- **Seminar Contact Time**: __
- **Seminar Work Time**: __
- **Seminar (Total Hours Spent)**: __
- **Web-based course work**: __
- **Workshop**: __

**Section 3:** For the activities listed in this section: 1.5 units = 8 hours per day for 1 week (40 hours total per 1.5 unit)
- **Block Elective**: __
- **Clinical clerkship**: __

**Other (specify):** __

**Calculation of Total Units** (sum of [# of weeks x hours per week per activity x unit calculation formula for activity]): 4

**Explanation of Calculation** (only complex calculations need explanation): __

**May this course be repeated for credit? If so, under what circumstances?**
- **Yes** [ ]
- **No** [x]

**Can this course be offered for graduate academic credit? (for degrees earned in the Graduate Division)**
- **Yes** [x]
- **No** [ ]

**Revised:** March 2007
Instructor(s):

Instructor of record (printed name and signature required of instructor with administrative responsibility)

Printed Name: Margaret Walsh
Signature: 
Payroll Title: Professor
Department: PRDS

Other Instructor(s) (printed name) (for additional space, use COMMENTS section)

Printed Name: 
Payroll Title: 
Department: 

Description (not to exceed 500 characters, including spaces - approximately 85 words):

Students will enroll in this course while completing their mentored field project in one of the following four settings: an educational setting such as a basic preparation dental hygiene program or in the UCSF predoctoral dental program; a public health or governmental setting; an established research or administrative group at UCSF related to the student's area of interest; or an oral health-related industry setting. Students will complete the project developed over the previous two quarters.

Justification for the Course Request and Comments:

Students will complete their mentored field project within a partner institution. They will be required to spend at least two months in the field work setting, working at least 18 hours per week. Students will be responsible for continually assessing their own progress and discussing with their mentors their own work and the application of their didactic learning to their particular setting.

<table>
<thead>
<tr>
<th>Course requirements (Mark all that apply):</th>
<th>Used to Evaluate Student Performance (Mark all that apply):</th>
<th>Course grading convention (Mark appropriate option):</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Class Participation</td>
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<td>☐</td>
<td>☐ S/U only (Satisfactory/Unsatisfactory)</td>
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<td>☑</td>
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</tr>
<tr>
<td>☐ Case Presentation</td>
<td>☐</td>
<td>☐ Letter or P/NP or S/U</td>
</tr>
<tr>
<td>☐ Direct Observation of Clinical Performance</td>
<td>☐</td>
<td>☐ In Progress, grade to be assigned quarter:</td>
</tr>
<tr>
<td>☐ Oral Presentation</td>
<td>☐</td>
<td>☑ Honors can be earned</td>
</tr>
<tr>
<td>☐ Original Paper</td>
<td>☐</td>
<td>(Available only for School of Medicine 3 &amp; 4 or School of Dentistry)</td>
</tr>
<tr>
<td>☑ Attendance</td>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>

☐ Other (specify): ☐ Other (specify):

* Prepared by:
Name: 
Email address: 
TBN: 

Authorized by:
Chair of Department/Division's Signature: 

Date: 
Mail Box #: 
Phone #: 

Approved by:
School Curriculum Committee: 
Dean of School: 
Committee on Courses of Instruction: 
Office of Admissions and Registrar: 

Date: 
Date: 
Date: 
Date: 

Course catalog update by: 

Date: 

* Please submit the original course form and 13 copies of each original course form.
Course Objectives:

Subject: Dental Hygiene
Number: DH 203

Specify in terms of knowledge, skills, or practices to be developed. Objectives should be measurable and student-focused using language from Bloom’s Taxonomy (see "Skill’s Demonstrated" http://www.coun.uvic.ca/learn/program/hndouts/bloom.html). Please number each objective.

Upon completion of this course, a student will be able to:

1. Complete an independent mentored project of their own design in a dental hygiene or related setting
2. Demonstrate the knowledge, behaviors and attitudes established as outcomes for the Master of Science in Dental Hygiene Program and apply to field work.
3. Assess their role in the field work setting and determine potential career opportunities based on this role.
Appendix J

Budget
### Proposed: Dental Hygiene MS degree program

<table>
<thead>
<tr>
<th>academic year</th>
<th>09-10</th>
<th>10-11</th>
<th>11-12</th>
</tr>
</thead>
<tbody>
<tr>
<td># of students</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>professional fee</td>
<td>10,000</td>
<td>10,700</td>
<td>11,449</td>
</tr>
<tr>
<td>estimated revenue</td>
<td>120,000</td>
<td>128,400</td>
<td>137,388</td>
</tr>
<tr>
<td>less current rate of financial aid @ 1/3</td>
<td>-40,000</td>
<td>-42,800</td>
<td>-45,796</td>
</tr>
<tr>
<td>__________________________</td>
<td>__________________________</td>
<td>__________________________</td>
<td>__________________________</td>
</tr>
<tr>
<td>.3 FTE teaching support (at Assoc. 2)</td>
<td>24,120</td>
<td>25,326</td>
<td>26,592</td>
</tr>
<tr>
<td>.2 FTE teaching support (at Assoc. 3)</td>
<td>16,980</td>
<td>17,829</td>
<td>18,720</td>
</tr>
<tr>
<td>academic benefits (@ 17%)</td>
<td>6,987</td>
<td>7,336</td>
<td>7,703</td>
</tr>
<tr>
<td>20% curriculum support staff FTE (A II)</td>
<td>7,066</td>
<td>7,419</td>
<td>7,790</td>
</tr>
<tr>
<td>benefits for curriculum support staff (@ 25%)</td>
<td>1,766</td>
<td>1,855</td>
<td>1,947</td>
</tr>
<tr>
<td>admissions support, year 1</td>
<td>16,000</td>
<td>12,000</td>
<td>12,600</td>
</tr>
<tr>
<td>benefits for admissions staff (at 25%)</td>
<td>4,000</td>
<td>3,000</td>
<td>3,150</td>
</tr>
<tr>
<td>marketing budget (including website &amp; printing)</td>
<td>7,500</td>
<td>5,000</td>
<td>5,113</td>
</tr>
<tr>
<td>educational materials (textbooks for faculty)</td>
<td>1,000</td>
<td>250</td>
<td>256</td>
</tr>
<tr>
<td>curriculum support supplies (scantrons, syllabi, handouts)</td>
<td>750</td>
<td>767</td>
<td>784</td>
</tr>
<tr>
<td>general office supplies</td>
<td>1,000</td>
<td>1,023</td>
<td>1,046</td>
</tr>
<tr>
<td>mentor travel to field study sites</td>
<td>2,400</td>
<td>2,454</td>
<td>2,509</td>
</tr>
<tr>
<td>estimated net profit/(loss)</td>
<td>(9,569)</td>
<td>1,342</td>
<td>3,382</td>
</tr>
</tbody>
</table>

**Ongoing Departmental Support**

| .5 FTE Faculty Director (existing, at Professor, 6) | 64,850 | 68,093 | 71,497 |
| academic benefits @ 17% | 11,025 | 11,576 | 12,155 |
| __________________________ | __________________________ | __________________________ | __________________________ |
| **Departmental support:** | **75,875** | **79,668** | **83,652** |

**Ongoing Departmental/School Support**

| 12 faculty mentors for field work (S/D & S/N) | 19,103 | 20,058 | 21,061 |
| (estimated at 1 hour per week for 3 quarters: .225 FTE) | | | |
| .225 FTE at Associate III | | | |
| faculty lectures (shared) = .08 FTE at Associate III | 6,792 | 7,132 | 7,488 |
| academic benefits @ 17% | 4,402 | 4,622 | 4,853 |
| __________________________ | __________________________ | __________________________ | __________________________ |
| **departmental/school support** | **30,297** | **31,811** | **33,402** |
| **Total Departmental/School Support:** | **106,171** | **111,480** | **117,054** |

Revised 9/9/2006

Prepared by Susan Schultz