



University of California, San Francisco
CURRICULUM VITAE

Name: Donald A Curtis, DMD

Position: Professor, Step 6
Preventive & Restorative Dental Sciences
School of Dentistry

Address: Box 0758
707 Parnassus Ave, Dentistry, 2232
University of California, San Francisco
San Francisco, CA 94143-0758
Voice: 476-5827
Fax: 476-0858
Email: Don.Curtis@ucsf.edu

EDUCATION

1972 - 1977	University of Oregon, Eugene, OR	B.S.	General Sciences
1977 - 1981	University of Oregon, Portland, OR	D.M.D.	Dentistry
1981 - 1983	University of Southern California, Los Angeles, CA	Certificate	Prosthodontics
1984 - 1985	University of California, Los Angeles, CA	Certificate	Maxillofacial Prosthetics

LICENSES, CERTIFICATION

1981	Northwest Regional Boards
1982	California State License 30338
1981	Certificate in Prosthodontics, University of Southern California
1984	Certificate in Maxillofacial Prosthetics, University of California, Los Angeles
1986	Certification, The American Board of Prosthodontics (Diplomate)
2003	Re-certification of Diplomate status, American Board of Prosthodontics
2007	Re-certification of Diplomate status, American Board of Prosthodontics
2013	Re-certification of Diplomate status, American Board of Prosthodontics

PRINCIPAL POSITIONS HELD

1983 - 1984	University of California, Los Angeles, School of Dentistry	Assistant Clinical Professor	Restorative Dentistry
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1983 - 1984	University of Southern California, School of Dentistry	Assistant Clinical Professor	Restorative Dentistry
1986 - 1992	University of California, San Francisco (UCSF)	Assistant Professor	Department of Restorative Dentistry, Division of Prosthodontics
1992 - 1999	University of California, San Francisco	Associate Professor	Department of Restorative Dentistry, Division of Prosthodontics
1999 - 2013	University of California, San Francisco	Professor	Department of Preventive and Restorative Dental Sciences

OTHER POSITIONS HELD CONCURRENTLY

1982 - 1983	University of Southern California, School of Dentistry	Teaching Assistant, Fixed Prosthodontics	Restorative Department
1986 - 1988	Faculty Group Practice, UCSF School of Dentistry	Prosthodontist	Faculty Group Practice
1988 - 2013	Kaiser Oakland Hospital	Consultant	Head and Neck Surgery
1988 - 2008	Merritt Hospital	Consultant	Head and Neck Surgery
1988 - 2013	Berkeley, CA	Private practice	Prosthodontist

HONORS AND AWARDS

1976	Outstanding Undergraduate Research Assistant	Psychology, University of Oregon
1982	Certificate of Recognition	California Dental Association Scientific Program
1983	Certificate of Recognition	California Dental Association Scientific Program
1986	Fellow	American College of Prosthodontists
1989	Fellow	Academy of Dental Materials
1989	Certificate of Appreciation	Sinaloa Dental Society, Mexico
1989	Pew Scholarship	Pew Foundation

1990	Honorary Membership, Omicron Kappa Upsilon	National Dental Honor Society
1990	First place. Granger-Pruden National Prosthodontic Research Award Competition.	New York Academy of Prosthodontics
1993	Certificate of Appreciation	Sonora Dental Society, Mexico
2001	Letter of commendation for teaching in 131.04, which is the dental implant course for D-3	
2002	Letter of commendation for teaching in 131.04, which is the dental implant course for D-3	
2003	UCSF Dental Faculty Recognition Award Recipient	Pierre Fauchard Academy Northern California Section
2003	Certificate of Appreciation	Taiwan National Dental Society
2004	Faculty Mentor for Elfenbaum National Essay Award for dental students (Tarkan Sidel), Second place	Special Care in Dentistry
2005	Certificate of Appreciation	Brazilian National Dental Society
2008	UCSF Department of Preventive and Restorative Dental Sciences; 20 years of University Service Certificate of Appreciation	UCSF
2008	Examiner, American Board of Prosthodontics, 2008-present	American Board of Prosthodontics
2012	Certificate of Recognition	Egyptian Dental Society
2013	Recognition and commendation for Computer Simulation in Education	CSW Computer Simulations, LLC
2013	Award from graduating residents they titled "Inspiration and evidence based clinical application." Award from graduating residents. Graduate Prosthodontics	

KEYWORDS/AREAS OF INTEREST

Dental education, assessments, feedback, multiple-choice questions, self-assessment, masticatory function, modeling, oral cancer, periodontal ligament, PDL space, micro tomography, bone-periodontal ligament-tooth fibrous joint, discontinuities, dentin, caries risk assessment, prevention and management of dental caries, erosion

CLINICAL ACTIVITIES SUMMARY

MEMBERSHIPS

1986 - 2013	American College of Prosthodontists (ACP), Fellow
1987 - 2013	California Section of ACP
1990 - 2013	Omicron Kappa Upsilon (National Dental Honor Society)
1987 - 2006	International Association for Dental Research
1987 - 2006	American Association for Dental Research
1991 - 2006	San Francisco Section AADR
1988 - 1992	Fellow, Academy of Dental Materials
1986 - 2013	California Dental Association
1986 - 2013	American Dental Association
1986 - 2013	Berkeley Dental Society
1989 - 2013	American Dental Education Association (ADEA)
1995 - 2001	International Association of Maxillofacial Prosthetics
1998 - 2013	Pacific Coast Society for Prosthodontics
2007 - 2013	American Board of Prosthodontics
2013 - 2013	ITI (International Team for Implantology) Fellow
2013 - 2013	Academy of Prosthodontics
2013 - 2014	American Education Research Association

SERVICE TO PROFESSIONAL ORGANIZATIONS

1989 - 2013	Member, Bay Area Tumor Institute	Member
1992 - 1996	Board of Directors, Bay Area Tumor Institute	Board Member
1992 - 2013	Member Berkeley Dental Society (BDS)	Member
1992 - 1996	Geriatric Committee, American College of Prosthodontists (ACP)	Member
1992 - 1996	Board of Directors, BDS	Board Member
1992 - 1996	Committee on Committees, BDS	Member
1993 - 1993	Section of Removable Prosthodontics, ADEA	Secretary
1993 - 1996	Chair, Geriatric Committee, ACP	Chair
1993 - 1995	Prosthodontic Section of Pacific Coast, ADEA	Director
1993 - 1996	Membership Committee, OKU	Member

1994 - 1996	Member, Committee on Cancer Programs, Head & Neck Cancer Steering Committee, Bay Area Tumor Institute	Member
1994 - 1995	Removable Prosthodontics Section, ADEA	Chair-elect
1994 - 1999	Consultant, California Board of Dental Examiners	Consultant
1994 - 2005	Expert reviewer for patient complaints, California Board of Dental Examiners	Expert reviewer
1995 - 1995	Nominating Committee, Prosthodontics Section, ADEA	Chair
1995 - 2006	Children's Hospital, Oakland, Pro-bono prosthodontic care	Member
1995 - 1995	Program Chair, Prosthodontics Section, ADEA	Program Chair
1995 - 2013	Omicron Kappa Upsilon (National Dental Honor Society) (OKU)	Member
1995 - 1995	Secretary, OKU	Secretary
1996 - 1996	Secretary, BDS	Secretary
1996 - 1996	Section Removable Prosthodontics, ADEA	Chair
1996 - 1996	Member, Committee on Prosthodontic Competencies for Dental Students, ACP	Member
1996 - 1999	Committee on Development of a Competency-based Prosthodontic Examination, California Board of Dental Examiners	Member
1996 - 1996	Program Chair, Geriatric Session, American College of Prosthodontists Meeting	Program Chair
1996 - 1996	Vice President, OKU	Vice President
1997 - 1997	Treasurer, BDS	Treasurer
1997 - 1997	President, OKU	President
1997 - 1997	Committee on Continuing Education, BDS	Chair
1998 - 1998	President-elect, BDS	President-elect
1999 - 1999	President, BDS	President
1999 - 2002	National Association of Dental Laboratories representative, ACP	Member
2002 - 2006	Pacific Coast Society for Prosthodontics (PCSP)	Executive Councillor
2003 - 2003	Abstract reviewer, ACP	Reviewer
2003 - 2003	Panel presentation, Writer's Workshop, ACP	Member
2004 - 2009	Consultant, American Academy of Endodontics	Consultant

2004 - 2009	Test Construction Committee for Prosthodontic Section of National Dental Boards Part II, Joint Commission on National Dental Examinations, American Dental Association. Part A, multiple-choice test	Member
2004 - 2009	Undergraduate Prosthodontic Awards, PCSP	Member
2005 - 2005	Graduate Program Participation, PCSP	Member
2006 - 2009	Member and Consultant, Western Regional Examination Boards (WREB)	Member
2006 - 2009	Consultant, Computer Simulations; prepare questions for WREB	Consultant
2007 - 2013	Prosthodontic Forum Representative, ACP	Member
2007 - 2012	Prosthodontic Forum Representative from PCSP	Member
2008 - 2013	Member, Ad hoc Committee for pre-doctoral standards	Member
2008 - 2013	Examiner, American Board of Prosthodontics	Examiner
2008 - 2009	Parliamentarian, PCSP	Parliamentarian
2008 - 2013	Board of Directors, American Board of Prosthodontics	Member
2009 - 2012	Member, Review Committee, Commission on Dental Accreditation (CODA)	Member
2009 - 2012	Manuscript Committee, PCSP	Member
2009 - 2012	Review Committee, Commission on Dental Accreditation	Member
2010 - 2010	Task Force on Occlusion Education, ACP	Member
2010 - 2011	Continuing Education Committee, ACP	Member
2010 - 2010	Scientific Session, PCSP	Co-chair
2011 - 2012	Manuscript Committee, PCSP	Chair
2011 - 2011	By-laws Committee, PCSP	Chair
2011 - 2011	Vice-president, PCSP	Vice-president
2012 - 2012	President, PCSP	President
2013 - 2013	Immediate Past President, PCSP	Past President
2013 - 2013	Public & Professional Relations Committee, PCSP	Member
2013 - 2013	Bylaws Committee, PCSP	Member
2013 - 2013	Procedural Manual Review Committee, PCSP	Chair
2013 - 2013	Committee to evaluate outreach programs, PCSP	Chair
2013 - 2013	Membership and Nominating Committee, PCSP	Member
2013 - 2014	American Board of Prosthodontics	Vice-President

2014 - Test Construction Committee for Prosthodontic Section of National Dental Boards Part II, Joint Commission on National Dental Examinations, American Dental Association. Part B, scenario Member

2014 - 2014 Academy of Prosthodontics Nomenclature Committee Member

SERVICE TO PROFESSIONAL PUBLICATIONS

1987 - 2013 California Dental Journal, reviewer

1993 - 2013 Journal of Prosthodontics, reviewer

1996 - 2000 Journal of Dental Education, abstract reviewer

1998 - 2005 Journal of Prosthodontics. Section Editor, Academics and Education

1998 - 1998 Journal of Prosthodontics, book reviewer. Reviewed, among others, Carl Misch's book "Implant Dentistry" which was considered the standard of Implant textbooks at the time.

1998 - 2013 Journal of Prosthetic Dentistry, reviewer

2000 - 2000 California Dental Journal. Guest editor for entire Journal issue, Current Concepts of Occlusion

2002 - 2002 California Dental Journal. Guest co-editor for entire Journal issue, Treatment Planning

2006 - 2013 Journal of Dental Education, reviewer

2007 - 2007 Journal of Dental Education, book reviewer

2010 - 2013 Indian Journal of Dental Research, reviewer

2010 - 2012 Journal of the California Dental, education abstracts

2012 - 2012 Journal of Biomaterials Science, Polymer Edition, reviewer

2012 - 2012 Reviewer for Canadian Grants. MSFHR review. 2012 Career Investigators, #5145

2013 - 2013 European Journal of Dental Education, reviewer

2013 - 2013 International Journal of Prosthodontics, reviewer

2013 - 2013 Medical Education, reviewer

2014 - 2014 Editorial Board of the Journal of the American College of Dentists

2014 - 2014 Journal of Engineering in Medicine, reviewer

2014 - 2014 BMC Oral Health, reviewer

2014 - 2014 Bone, reviewer

2014 - 2014 Journal of Biomechanics, reviewer

2014 - 2014 Reviewer for Wiley Blackwell concerning proposed books in the area of implant dentistry. I recently reviewed a proposed book on Evidence Based Treatment Planning and Clinical Protocols proposed by Steven Sadowsky

INVITED PRESENTATIONS - INTERNATIONAL

1987	Free Berlin Dental School North Study Group	Guest Lecture
1988	International Association of Dental Research (IADR), 1988 (1 abstract), 1990 (1 abstracts), 1991 (1 abstract), 1993 (1abstract), 1994 (1 abstract), 1996 (1 abstract), 2003 (2 abstracts)	Lecture/Posters
1989	Sinaloa State Dental Conference, Mexico	Guest Lecture
1993	Sonora State Dental Conference, Mexico	Guest Lecture
1996	International Congress on Maxillofacial Prosthetics, Seoul, Korea	Guest Lecture
1996	International Congress on Maxillofacial Prosthetics, Seoul, Korea	Posters
1996	Fourth Military Medical University, Xian, China	Guest Lecture, Poster
1996	Beijing Medical Center, Beijing, China	Guest Lecture, Poster
2003	Taiwan National Prosthodontic Society	Guest Lecture
2005	National Brazilian Dental Society	Guest Lecture
2005	Faculty of Odontologia of Bauru, Bauru dental school, Brazil	Guest Lecture
2007	Osaka University- UCSF Joint Symposium	Guest Lecture
2010	Eastman Dental Center, London	Guest Lecture
2010	Henley on Thames Prosthodontic Study Group, London, England	Guest Lecture
2012	Alexandria International Dental Congress, Alexandria, Egypt. All day lecture to faculty on confidence in clinical decision-making.	Guest Lecture
2012	Alexandria International Dental Congress, Alexandria, Egypt. Six separate lectures over a three day period to different groups on complications with dental implants, caries and erosion, a classification of cognitive errors in dentistry, management of head and neck cancer patients.	Guest Lectures
2013	Swiss Society for Geriatric Dentistry and Handicapped Dentistry, Basel, Switzerland, CAMBRA; Caries Risk Assessment and Management	Guest Lecture

2013	I have been invited to speak at other international meetings but have declined due to safety concerns (Egypt, May, 2013), distance traveled (India, January, 2012). The declined invitations for international speaking are available upon request.	
2014	Osaka and UCSF Joint Symposium on Dental Implant Research. Planned, hosted, and moderated joint symposium of Osaka faculty and UCSF faculty on topics related to dental implants	Developed program, organized speakers, and moderated program
2014	Munich Study Club from the Bolz, Wachtel group. Focused on issues related to the buccal plate and immediate implant placement.	Informal lecture and discussion
2015	Osaka Dental School hired me for 3 weeks to work with 12 PhD students in the Graduate Program. I gave 4 lectures to the faculty (Developing Clinical Judgement in Dental Students, Developing Critical Thinking in Dental Students, Developing a Maxillofacial Prosthodontics Program, Bone Strain with Dental Implants) and one lecture to students (Dental School similarities and differences between Osaka and UCSF). I also worked every day on helping students with their projects.	Specially Appointed Professor
2015	Seoul, Korea. International College of Prosthodontics. Lecture on management of caries in the elderly	Keynote speaker
2016	Los Angeles, Ca. Clinical Practice Guidelines for the Recall and Maintenance of Patients with Tooth-borne and Implant-borne Dental Restorations	Symposium speaker

INVITED PRESENTATIONS - NATIONAL

1982	American Prosthodontic Society	Table Clinic
1983	American Prosthodontic Society	Lecture
1985	Academy of Maxillofacial Prosthetics	Poster
1995	Craniomandibular Institute. Meeting that resulted in book chapter in McNeil, Science and Practice of Occlusion	Lecture/Panel
1996	National Geriatric Society	Lecture/Poster
1987	Academy of Crown and Bridge Prosthodontics	Lecture
1987	Academy of Denture Prosthetics	Lecture
1990	Northeastern Gnathologic Society. Presentation that resulted in winning first place in the Granger-Pruden National Prosthodontic Research Award Competition	Lecture
1991	Academy of Denture Prosthetics	Lecture

1991	Academy of Maxillofacial Prosthetics	Poster
1993	Pacific Coast Society for Prosthodontics	Lecture
1996	Academy of Maxillofacial Prosthetics	Lecture
2008	Academy of Prosthodontics	Lecture
2008	Academy of Maxillofacial Prosthodontics	Lecture
2008	American College of Prosthodontists, Educator's Conference	Lecture
2009	American Dental Education Association, Symposium on self-assessment and what it means	Symposium Coordinator, Lecture
2009	American College of Prosthodontics, Educator's Conference	Lecture
2009	American College of Prosthodontics, General Session	Lecture
2010	American Dental Education Association, Presidential Symposium	Presidential Symposium, coordinator and lecture
2010	University of Kentucky Faculty Conference; primary lecturer on use of self-assessment	All morning lecture
2012	University of Pacific Faculty Development; Use of Multiple-Choice Questions- uses and abuses	Lecture
2012	University of Connecticut Dental School, invited lecturer, prosthodontic outcomes and dental occlusion	All day lecture
2012	US Army at Fort Gordon, Georgia. Series of lectures over two days on topics relating to complications with dental implants, clinical judgment, a taxonomy of cognitive errors in dentistry.	Lecture, demonstration
2013	American College of Prosthodontists, General Session. A classification of cognitive errors in dentistry	Lecture
2013	American College of Prosthodontists, Educator's Forum. The Use of Assessments for the Development of Trainees.	Lecture/Panel
2014	US Navy Dental faculty and prosthodontic residents and University of Maryland faculty and graduate prosthodontic residents. All day lecture at University of Maryland on confidence and clinical decision making.	All day lecture
2014	Prosthodontic Educators Conference, American College of Prosthodontists. How to Teach and Assess Clinical Skills	Lecture
2014	Meaningful admissions criteria by which to evaluate candidates applying to graduate prosthodontics programs.	Panel
2014	US Army at Fort Gordon, Georgia. All day lecture on principles of feedback to trainees. I also reviewed updates on caries and on dental implants.	Lecture, discussion

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| 2015 | American College of Prosthodontists, Educator's Forum.
Assessment and Management of Caries | Lecture |
| 2015 | American College of Prosthodontists, Educator's Forum. Test
construction for a Multiple-Choice Question Assessment | Lecture |

INVITED PRESENTATIONS - REGIONAL AND OTHER INVITED PRESENTATIONS

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| 1982 | University of Southern California Alumni Day | Table Clinic |
| 1982 | Residents Intercity Prosthodontic Conference, University of Southern
California | Lecture |
| 1983 | California State Dental Society | Table Clinic |
| 1984 | University of California, Los Angeles, Graduate Prosthodontics | Lecture |
| 1985 | University of California, Los Angeles, Graduate Prosthodontics | Lecture |
| 1988 | UCSF Chancellors Seminar | Lecture |
| 1988 | Psi-Omega Fraternity | Lecture |
| 1988 | Bay Area Prosthodontic Study Group | Lecture |
| 1989 | Geriatric Education Project, American College for Prosthodontists | Panel |
| 1990 | Medical-Dental Study Guild | Lecture |
| 1991 | Berkeley Dental Society | Lecture |
| 1991 | Doctors Hospital Study Group | Lecture |
| 1993 | East Bay Women's Study Club | Lecture |
| 1993 | Chabot College Dental Hygiene Program | Lecture |
| 1993 | Bay Area Tumor Institute | Lecture |
| 1993 | UCSF Implant Seminar | Lecture |
| 1994 | UCSF Dental Alumni | Lecture |
| 1995 | UCSF Dental Alumni, Gurley Memorial Lecture | Lecture |
| 1995 | World Presidents' Organization Conference | Lecture |
| 1996 | UCSF World Presidents Organization Spouse Program | Lecture |
| 2000 | University of the Pacific Dental School- Risk factors with dental
implants | Lecture |
| 2001 | Oral and Maxillofacial Surgery- Experiments with distracted bone | Lecture |
| 2002 | Contra Costa Dental Society | Lecture |
| 2003 | Santa Clara Dental Society | Lecture |
| 2003 | Berkeley Dental Society | Lecture |
| 2003 | Alameda Study Club | Lecture |

2005	Alameda Dental Society	Lecture
2006	Marin Academy Study Club	Lecture
2008	St. Mary's College of California, on global oral health	Lecture
2009	St. Mary's College of California, on global oral health	Lecture
2010	UCSF Dental Alumni Meeting, John Gurley Lecture	Lecture
2010	Contra Costa Dental Society	Lecture
2012	School of Dentistry Faculty Retreat, on assessments	Lecture
2012	4th Annual Los Gatos Dental Meeting	Lecture
2011	ITI (International Team for Implantology) USA	Lecture
2013	ITI (International Team for Implantology) USA	Lecture
2013	School of Dentistry, Preventive and Restorative Dental Sciences Department Retreat, on feedback	Lecture
2014	Berkeley City Club. Asked to lecture on confidence and clinical decision making among health care providers	Lecture
2015	UCSF Dental Alumni Meeting. Lecture on Complications with Dental Implants	Lecture and discussion

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT ACTIVITIES

I have annually met the Continuing Education requirement for the State of California for licensure. I have a current certificate in basic life support and am compliant with the Sexual Harassment Prevention training.

GOVERNMENT AND OTHER PROFESSIONAL SERVICE

1994 - 1999	Expert reviewer for patient complaints, California Board of Dental Examiners	Expert Reviewer
2005 - 2005	Expert witness for Donald Sharrer, et al. v. Charlene Zettel, et al.: U.S.D. C. Involved patients wanting to be seen by "denturists". I worked with Joshua Room and Bill Lockyer, Attorney General, State of California, Department of Justice	Expert Consultant
1996 - 1999	Committee on Development of a Competency-based Prosthodontic Examination, California, Board of Dental Examiners	Committee Member
2012 - 2012	Consultant to US Army at Fort Gordon, Georgia. Series of lectures over two days on topics relating to complications with dental implants, clinical judgment, taxonomy of cognitive errors in dentistry.	Lecturer and Consultant

2012 - 2012	Reviewer for Canadian Grants. MSFHR review. 2012 Career Investigators (5145) Project: Delivery of Implant Supported Restorations in Head and Neck Cancer Patients.	Reviewer
2013 - 2013	Affiliation as an Education Consultant to Universidade Federal de Espirito Santo (UFES) in Vitoria, Brazil	Consultant
2014 - 2014	All day lecture to US Navy dental faculty on confidence and clinical decision-making	Lecture
2014 - 2014	The FDI World Dental Federation in conjunction with GlaxoSmithKline (GSK) has hired me to review and improve training modules that will be used for training dental professionals. I am currently working on the "Sensitivity and Acid Erosion" module. I am excited about this as i think the future of dental education will include much more of these types of interactive modules.	Consultant

SERVICE ACTIVITIES SUMMARY

I have been involved in public, professional, and University service. Public service activities include cooking and delivering over 4,600 meals during the last 11 years to the homeless shelter in Alameda for Woman and Children. My wife and I are active in school and church fund raising. I continue to serve on the Bay Area Tumor Institute providing free consultations to patients requiring prosthodontic services for the management of head and neck cancer. Professionally I have been president of numerous organizations including the Berkeley Dental Society, Pacific Coast Society for Prosthodontics (PCSP), and will assume Presidency of the American Board of Prosthodontics in 2014. I am especially pleased with my activities with the PCSP in creating membership momentum and developing fund raising levels so that we can initiate some outreach programs into underserved communities.

My most active years of service to UCSF were during 1993-2003 where I was Chair of the Faculty Council, Chair of Admissions Committee, Representative from the School of Dentistry to the Long Range Development Plan (LRDP), President of OKU Honor Society, Chair of Educational Policy Committee, Chair Dental 4th Year Student Status, and Chair of Executive Committee of Student Status. Many positive things happened during this period, including moving to a pass/no pass grading criteria, having an active educational program where structured student feedback was provided to faculty, a faculty active in school governance, and active overnight faculty retreats.

I currently serve as the UCSF representative to the University of California Educational Policy Committee (UCEP) system-wide and vice-chair of the Academic Senate Committee on Educational Policy. The UCSF climate for professional development in education is very favorable right now, and encouraging faculty to actively participate in their continuing development is a priority. Involvement with these education committees as well as the Medical Education Department has allowed me to present new ideas to the dental school where I am confident we can develop even more scholarship in educational research and improved clinical teaching. I firmly believe the dental school, while consistently leading all other dental schools in NIDCR funding, can also become recognized as the international leader in dental educational research. I would love to see this occur and be an active participant in achieving this goal.

Diversity

Diversity is an important and essential element for a balanced, socially responsible public institution. When diversity is an institutional value, faculty must accept personal responsibility for its implementation. I advocated this very strongly during my time on the Committee on Equal Opportunity (2009-2012). I feel comfortable identifying, for the first time, some of my accomplishments in promoting diversity. I have been active in promoting programs and individuals to improve gender and racial diversity in our teaching programs, organized dentistry, and in our community. For example, I was responsible for recruiting Dr. James Sweeney (drjsIII@aol.com)(now retired) to teach part time in the UCSF clinics. When president of the Berkeley Dental Society I recruited Drs. Susan Caliri and Ariane Terlet. Dr. Terlet became active in the California Dental Association, including serving as a member of the Board and as an advocate for Latino issues. One of my post-doctoral students (Stefania Kano, stefaniakano@gmail.com) told me her UCSF training and published articles helped her to break through the glass ceiling that exists for many women in Brazil, resulting in her current faculty position.

In the local community I have been active with three groups. The Partners Program in Oakland (<http://www.college-prep.org/about/the-partners-program/index.aspx>), which many recognize as the single best middle school intervention for at risk youth in the country with a 96% college graduation rate. Much of the progress with the Partners Program in the past 20 years should be attributed to Steve Berger. My role with this group is as a fund raiser, and as an educational resource to Steve. I would say my most significant contribution educationally was to review the literature on peer learning and advocate for peer learning which is the educational model they ended up adopting. I also am active with Mr. Fred Clark and the (<http://catholic-sf.org/ns.php?newsid=25&id=60995>) St. Peter School in San Francisco helping provide educational scholarships principally for Latino middle school children. My role in this group is solely as a fund raiser. My wife and I are also active with the Alameda homeless shelter as described above (<http://www.midwayshelter.org>).

UNIVERSITY SERVICE

UC SYSTEM AND MULTI-CAMPUS SERVICE

2013 - 2015 University of California Educational Policy representative (UCEP)

UCSF CAMPUSWIDE

1995 - 1995	Ad hoc Review Committee	Member
1996 - 1997	Academic Senate Committee on Courses of Instruction	Member
1998 - 1998	Academic Senate Committee on Academic Freedom	Member
2000 - 2002	Academic Senate Committee on Courses of Instruction	Member
2003 - 2003	Academic Senate Leadership Retreat	Participant
2003 - 2003	Ad hoc LRDP planning Committee	Represented School of Dentistry

2003 - 2003	Ad hoc committee to select teaching award recipients	Member
2004 - 2004	Academic Senate Leadership Retreat	Participant
2003 - 2005	Academic Senate Coordinating Committee	Member during time I was Chair, School of Dentistry Faculty Council
2002 - 2002	Ad hoc investigation of probable cause	Chair
2009 - 2012	Academic Senate Committee on Equal Opportunity	Member
2012 - 2013	Academic Senate Vice-Chair, Committee Educational Policy	Vice-Chair
2013 - 2013	Distinction in Mentoring Award Selection Committee	Member
2013 - 2014	Academic Senate Task Force to revise Appendix VII, dealing with due process of students having academic difficulty.	Member

SCHOOL OF DENTISTRY

1986 - 1989	Research Committee	Member
1987 - 2000	Geriatric Coordinating Committee	Member
1988 - 1990	Task Force on Infectious Disease Control	Member
1988 - 2000	Occlusion Task Force	Member
1990 - 1990	Pew Planning Committee: Graduate Programs	Member
1990 - 1990	Search Committee for Restorative Department Chair	Member
1990 - 1992	Panel Chair, Admissions Committee	Panel Chair
1991 - 1992	Executive Committee of Admissions Committee	Section Chair
1993 - 1994	Admissions Committee	Chair
1993 - 1994	Scholarship Committee	Member
1994 - 1995	Dental 4 Student Status	Chair
1994 - 1996	Committee on Courses of Instruction	Member
1994 - 1995	Executive Committee for Student Status	Chair
1996 - 2002	Research Committee	Member
1996 - 2002	Academic Planning and Budget Committee	Member
1997 - 2002	Educational Policy Committee	Member
1996 - 1998	Subcommittee of APB on Managed Care	Member

1997 - 1999	Subcommittee to Evaluate International Dental Program	Member
2000 - 2002	Educational Policy Committee	Chair
2002 - 2003	Faculty Council, School of Dentistry	Vice-Chair
2002 - 2003	Technology Committee	Member
2004 - 2004	Search Committee for position in periodontics	Member
2003 - 2005	Dean's Council	Member as Chair of Faculty Council
2003 - 2003	Academy of Dental Educators	Member
2003 - 2003	Organized the Fall Faculty Retreat	Organizer
2003 - 2005	Chair, Faculty Council for School of Dentistry	Chair
2003 - 2005	Accreditation Steering Committee	Member
2004 - 2004	Organized the Fall Faculty Retreat	Organizer
2005 - 2007	UCSF School of Dentistry Task Force on Women and Under-represented Minorities	Member
2006 - 2007	Blue Ribbon Panel on Admissions	Chair
2006 - 2013	Interviewer, Admissions Committee, Graduate Prosthodontics	Member
2007 - 2008	Search Committee, position in periodontics	Member
2007 - 2008	Search Committee, position in prosthodontics	Member
2009 - 2009	Reviewer, summer fellowship proposals	Reviewer
2008 - 2009	Reviewer of Abstracts, School of Dentistry Research Day	Judge
2008 - 2009	Interviewer, Admissions Committee for Dental Student Admissions	Member
2010 - 2010	Portfolio Working Group	Member
2010 - 2013	Global Oral Health Steering Committee	Member
2010 - 2012	Faculty Council Representative for School of Dentistry	Member
2010 - 2011	Dental Student First Year Mentoring program	Mentor
2009 - 2013	Committee for Clinical Excellence Awardee	Member
2014 - 2014	Summer Research Fellowship Program	Reviewer

DEPARTMENTAL SERVICE

1990 - 2002	Animal Research Committee for Restorative Department	Member
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1990 - 1990	Search Committee for Prosthodontic Position	Member
1991 - 1991	Search Committee for Prosthodontic Position	Member
1991 - 2006	National Board Review Program for Prosthodontics	Volunteer
1991 - 1991	Search Committee for Chair of Restorative Department	Member
1991 - 2005	Faculty Advisor for Junior and Senior Dental Students	Advisor
1995 - 1995	Co-Chair, Take Your Children to Work	Co-Chair
1998 - 2009	State Board Review Program for Prosthodontics	Volunteer
2006 - 2006	Search Committee for Prosthodontic Position	Member
2009 - 2011	National Board Review Program for Prosthodontics	Volunteer
2013 - 2013	Member, Peer Review Committee	Member

COMMUNITY AND PUBLIC SERVICE

1985 - 1985	Sierra Club, Friends of Mono Lake; active involvement in numerous environmental groups	Member
1986 - 2010	Bay Area Tumor Institute. Head and Neck Pre-treatment Conference. Meet bi-monthly to treatment plan patients who have head and neck tumors. We examine patients, answer questions and discuss treatment options.	Member
1987 - 1989	Board of Directors, Pelican Bay Homeowners Association	Board of Directors
1991 - 2000	Consultant to Associated Students Community Health Program	Consultant
1991 - 2013	Expert witness including deposition work and court testimony	Expert Witness
1998 - 2000	Board of Directors, Citizen's League for Airport Safety & Serenity. We were successful in our lawsuit against Oakland Airport.	Board of Directors
1991 - 2004	Sponsor, coach, and participant in national open division team triathlon. 10th place, 1996	Participant
1992 - 1996	Board of Directors, Bay Area Tumor Institute. The Directors meet four times a year to plan programs for community awareness or research protocols for cancer patients of the Bay Area	Board of Directors
1993 - 2000	American Medical Forensic Specialists	Consultant
1994 - 2013	First Presbyterian Church	Member
2002 - 2013	Prepare and deliver 35 dinners on 2nd Wednesday of each month to Alameda Homeless Midway Shelter. This is run through the Building Futures with Women and Children Program. My wife and I have prepared and delivered over 4,600 meals over the last 11 years (http://www.midwayshelter.org/).	With my wife

- 1994 - 2013 Prison Fellowship. This is part of the Angel Tree program where we Participant
organize church members to buy and deliver gifts to children of
incarcerated people of Alameda and Oakland. We purchase and
deliver the gifts a few days before Christmas. My wife and I are the
organizers for our church
(<http://www.prisonfellowship.org/programs/angel-tree/>).
- 2015 - 2015 Developed and wrote an American College of Prosthodontics Author
position statement on the need for water fluoridation. This position
statement is on the patient portal for the ACP

TEACHING SUMMARY

I have been an active educator and an advocate for evidence-based approaches to educational programs. During my term as Faculty Council Chair we were successful in moving the faculty to a pass/no pass system of assessment, which is much more common in medical schools than dental schools. I led the faculty debate on this at the 2003 Faculty Retreat where, after considerable discussion, the faculty voted to become the fourth pass/no pass dental school in the country.

I have been actively involved in developing the assessments for the California State Dental Board (1996-1999), the Western Regional Dental Board (2006-2009), the specialty Board for the American Board for Prosthodontics (2008-present), the National Boards Part II (2004-2009), providing students with the California State Board and the National Board review courses. My involvement in these regional and national groups has sensitized me to the limits and perils of the inferences we make from assessments, and taught me how to better structure assessments to optimize direct and indirect learning.

Context-based assessments have become the goal in clinical programs, and my clinical expertise and a solid background in pedagogy have improved my ability to develop context-based assessments and advance assessment programs with which I am involved. This combination of backgrounds was not an intentional goal, but evolved throughout my career. It has also allowed me to introduce educational best practices to my peers. For example, I have been asked three times over the past five years to speak to the American College of Prosthodontists Educators Meeting, which includes nearly all the graduate prosthodontic program directors from the US and faculty representatives from both the US and foreign dental schools. This is not clinical teaching, but rather peer development, an arena in which I am more and more frequently asked to present, nationally and internationally. Of our research findings, the audiences seems to be most interested in the concordance of confidence and accuracy as a way to measure professional development, our consistent finding of high percentages of trainees being confident even when incorrect, and our finding that the miscalibration of confidence/correctness is more pronounced in clinical domains where there is higher potential compensation. Participant responses listed below are examples of the feedback I received from the international audience at the recent ACP (October, 2013).

I continue to work with numerous faculty on projects related to improving the educational programs at UCSF. Currently I am working with Mark Dellinges DDS, on a research project to evaluate our ability to improve multiple-choice question writing by faculty, and am working with

dental students on surveys they want to use at the American Dental Education Association meeting.

I am currently running the Current Literature Review course in the Graduate Prosthodontic Residency program. What makes this course fun to teach is how organic the course is. We select topics and issues that parallel things happening in the clinics. For example, when we recently saw a couple dental implants fail to integrate, we read current articles related to that topic the same week. The Current Literature Review also includes a discussion of methods and statistics as they relate to the reviewed articles. I also lecture to the D-3 students on decision-making and treatment planning dental implants in the partially and completely edentulous patient and to the D-4 students on complications that may occur with dental implants. I try to challenge students, explain why learning the material is important, and what is important in being a professional. I am also a guest lecturer in some basic science courses for graduate students.

I continue to work with prosthodontic residents on research projects and meet weekly in seminars and "chalk talks" with graduate students in Dr. Sunita Ho's laboratory. Students in Dr. Ho's course are often pursuing a PhD but do not have a DDS. A recent E-Eval Report from that course stated my lecture was "One of my favorite lectures of this course. Very engaging, knowledgeable, and facilitated great discussion among both PhD students and residents. This was a rarity." My goal in lecturing to mixed groups is to stimulate discussion and debate between the basic scientists and clinical trainees. The involvement with the residents and graduate students has increased my informal teaching hours significantly. My involvement as an American Board of Prosthodontics Board member has resulted in many more mentoring requests from trainees and faculty at UCSF, nationally, and internationally.

RESEARCH AND CREATIVE ACTIVITIES

RESEARCH AWARDS AND GRANTS

FORMAL TEACHING

Not UCSF	Academic Yr	Course No. & Title	Teaching Contribution	School	Class Size
	1987 - 1987	Restoring and maintaining the compromised dentition for the geriatric patient. Lecture - UCSF Continuing Education			

Not UCSF	Academic Yr	Course No. & Title	Teaching Contribution	School	Class Size
	1988 - 1988	Prosthodontic update: Materials and methods in current prosthodontic practice. Lecture - UCSF Continuing Education			
	-	Course No. & Title	Teaching Contribution		Class Size
	2000 - 2000	Restorative Dentistry 188, Orofacial Pain	Lecturer		10
	2000 - 2013	Restorative Dentistry 418-428-438, Prosthodontics Clinic	Clinic Instructor		10
	1995 - 2013	PCC 131-134 Foundations of General Dentistry	Course Lecturer		112
	2002 - 2013	PCC 149 Foundations of General Dentistry	Course Lecturer		112
	2009 - 2009	Current Literature Review for Graduate Prosthodontic Students	Course Director		12
	2012 - 2013	PRDS 203 Mineralized Tissues: Science, Engineering and Clinical Aspects	Lecturer		12
	2005 - 2008	Gr Devel 122, Clinical Orthodontic Research	Lecturer		12
	2008 - 2013	Maxillofacial Prosthodontics Course for Graduate Prosthodontic Residents	Lecturer, course is given every third year		12
	2013 - 2013	Dr. Hossaini's second year Standardized Patient Exercise course	Evaluator		112

INFORMAL TEACHING

- 1988 - 1988 Recent research in restorative dentistry. Lecture. UCSF Faculty Panel. Asilomar, California.
- 1990 - 1990 Bone density changes in the cranium associated with alterations in the occlusion. Dental Student Conference on Research. Lecture, UCSF.
- 1998 - 2008 State Board Review for senior dental students.
- 1998 - 2000 Instructed Graduate Prosthodontic Residents on use of Pantograph
- 1995 - 2008 National Board Review for junior dental students.
- 2000 - 2007 Evening seminar reviewing internal connection implants to D-3 students
- 2000 - 2003 Evening seminar reviewing external connection implants to D-3 students
- 2000 - 2008 Coordinate many of the dental student experiences with implant prosthodontics
- 2005 - 2013 Mock Boards in Graduate Prosthodontics
- 2010 - 2013 I am consistently available to residents outside of formally published clinic or teaching schedules. I am in contact with residents virtually every day, including evenings and weekends, by e-mail, text, and phone calls. I respond to patient care questions, laboratory prescription signatures, and review digital images for treatment plans. On days scheduled for research, I will typically be in the Graduate Prosthodontic Clinic at least twice.

PREDOCTORAL STUDENTS SUPERVISED OR MENTORED

Dates	Name	Program or School	Mentor Type	Role	Current Position
1992 - 1992	Paul Kasrovi	DDS		MS Advisor, Mentor	Part time faculty UCSF, private practice, co-author
1993 - 1993	Donna Barpal	DDS		Mentor, co-author	Private practice
1996 - 1996	Under-represented college students	Undergraduate Mentorship Program		Mentor	
2003 - 2003	5 D-1 students	Mentorship program		Mentor	Graduated
2004 - 2004	5 D-1 students	Mentorship program		Mentor	Graduated
2010 - 2010	5 D-1 students	Mentorship program		Mentor	Students

Dates	Name	Program or School	Mentor Type	Role	Current Position
2009 - 2010	Christina Tran	DDS		Mentor, involved in ADEA,	Graduated
2009 - 2010	Mark Bellisario	DDS		General, Mentor	Now in Graduate Prosthodontics
2013 - 2013	Rosalie Bittong	DDS		Education Mentor	Working on education project(s)
2012 - 2013	Janelle Greene	DDS		Research Mentor	Research projects, career mentoring

POSTDOCTORAL FELLOWS AND RESIDENTS MENTORED

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2006 - 2009	Becky Gong	Postgraduate Prosthodontic Resident		Instructor / Clinical Supervisor	Private practice, part time at University of the Pacific
2006 - 2009	Sundeep Rawal	Postgraduate Prosthodontic Resident		Instructor / Clinical Supervisor	Private practice in Florida
2006 - 2009	Sukhmani Singh	Postgraduate Prosthodontic Resident		Instructor / Clinical Supervisor	Private practice
2006 - 2009	Ann Wei	Postgraduate Prosthodontic Resident		Instructor / Clinical Supervisor	Private practice, part time at UCSF
2007 - 2010	Samuel Chiu	Postgraduate Prosthodontic Resident		Instructor / Clinical Supervisor	Private practice
2007 - 2010	Don Leopoldo Jayanetti	Postgraduate Prosthodontics Student		Instructor / Clinical Supervisor	Private practice

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2007 - 2010	Alejandro Urdaneta	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Faculty, Western University of Health Sciences
2008 - 2011	Natalie Buu	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Faculty, UCSF
2008 - 2011	Cynthia Morford	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Private practice
2009 - 2012	Eric Wong	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Private practice
2009 - 2012	Alex Won	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Private practice
2009 - 2012	Catherine Do	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Private practice
2009 - 2012	Justin Shek	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Faculty, UCSF; Private practice
2010 - 2013	Kaushal Dhawan	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Faculty University of Colorado
2010 - 2013	Kevin Lin	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Private practice
2010 - 2013	Junsik Kim	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Private practice
2010 - 2013	Kenneth Moore	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Private practice
2011 - 2011	Sara Han	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Resident

Dates	Name	Fellow	Mentor Role	Faculty Role	Current Position
2011 - 2011	Mark Bellisario	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Resident
2011 - 2012	Michaela Nguyen	MS in Dental Hygiene		Internal Mentor	University of Southern California, faculty
2012 - 2012	Clark Chen	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Resident
2012 - 2012	Alex Matosian	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Resident
2012 - 2012	Gloria Khoo	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Resident
2013 - 2013	Michael Singer	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Resident
2013 - 2013	Sasha Valentin	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Resident
2013 - 2013	Loren Lee	Postgraduate Prosthodontics Resident		Instructor / Clinical Supervisor	Resident
2013 - 2014	Jing Du	Post-doctoral student in research lab of Sunita Ho		Mentor/advisor on research projects	Post-doctoral student
2013 - 2014	Andrew Jang	Doctoral student in research lab of Sunita Ho		Mentor/advisor on research projects	Doctoral student

FACULTY MENTORING

Dates	Name	Position while Mentored	Mentor Type	Mentoring Role	Current Position
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Dates	Name	Position while Mentored	Mentor Type	Mentoring Role	Current Position
1997 - 2013	Paul Kasrovi	Dental student, graduate student, faculty		General, MS Advisor, co-author	Part-time faculty, UCSF
1999 - 2013	Donna Barpal	Dental student, Resident, Colleague		General, co-author	Part-time clinical faculty UCSF, now private practice
2003 - 2013	Lauren Hebel	Resident		General, helped with Board preparation	Part-time clinical faculty, UCSF
1999 - 2013	Edward Hems	Graduate Student in Prosthodontics, Colleague		General, MS Advisor, co-author	Eastman Dental Center, London and private practice
1997 - 2013	John Sorenson	Co-investigator		General, co-author	Professor, University of Washington
1998 - 2013	Belinda Head	Faculty member at University of Pacific		General, MS Advisor, co-author	Faculty member at University of Pacific, former director of implant program, currently private practice
2004 - 2013	Stefania Kano	Post-doc student, co-author,		General, post-doc advisor, co-author	Faculty in San Paulo, Brazil
2009 - 2013	Sophia Saeed	UCSF faculty		Education advisor research	UCSF faculty
2009 - 2013	Mark Dellinges	UCSF faculty		Education advisor, co-author	UCSF faculty

Dates	Name	Position while Mentored	Mentor Type	Mentoring Role	Current Position
2010 - 2013	Steve Sadowsky	University of Pacific		General	University of Pacific faculty
2000 - 2013	Henry Wu	UCSF faculty, private practice		General, co-author	Part-time UCSF, currently private practice
2011 - 2013	Justin Shek	UCSF faculty		General, co-author	UCSF faculty
2011 - 2013	Ann Wei	Graduate Student in Prosthodontics		General, helped with Board preparation	UCSF faculty
2007 - 2008	Renato Fajardo	Visiting Professor from Brazil		General, co-author	Faculty, San Paulo State University
2007 - 2013	Gaurav Setia	Faculty, UCSF		General, co-author	Faculty, UCSF
2005 - 2013	Samuel Lind	Faculty, St Mary's College of California		General, co-author	Faculty, Saint Mary's College of California
2008 - 2013	Raymond Chu	Private Practice		General, co-author	Private practice
2010 - 2013	Jay Jayanetti	Graduate Student in Prosthodontics		General, co-author	Faculty, Louisiana State University Health Sciences Center
2010 - 2013	Sukhmany Singh	Graduate Student in Prosthodontics		General, co-author	Part-time UCSF Private practice
2010 - 2013	Sam Chiu	Graduate Student in Prosthodontics		General, help with Boards	Private practice

Dates	Name	Position while Mentored	Mentor Type	Mentoring Role	Current Position
2009 - 2013	Rebecca Boardman	Graduate Student in Prosthodontics		General, career	Part-time UCSF, private practice
2010 - 2013	Brian Kucey	Prosthodontic organizations		General, career	Part-time University of Alberta, private practice
2009 - 2013	Terry Eggleston	Prosthodontic organizations		General, career	Part-time UCSF, private practice
2010 - 2013	Judith Strutz	Prosthodontic organizations		General, career	Part-time UCLA, private practice
2009 - 2013	Christopher Travis	Prosthodontic organizations		General, career	Part-time USC, private practice
2000 - 2013	Rich Kao	UCSF faculty		General, co-author	Part-time UCSF, private practice
2010 - 2013	Jonathan Wiens	Prosthodontic organizations		General, co-author	President, American College of Prosthodontics, part-time Mercy Detroit
2010 - 2013	Kimberly Kim	Prosthodontic organizations		General, co-author	Part-time UCSF, private practice
2003 - 2014	Stefania Kano	Faculty member, UFES, Brazil		General, co-author	Faculty, UFES, Brazil
2014 - 2014	Raquel Baroni	Visiting faculty member, UFES, Brazil		General, sent by UFES asking for help to set up education research program	Faculty, UFES, Brazil

RESEARCH AND CREATIVE ACTIVITIES SUMMARY

The primary focus of my research program has been form/function relationships in mastication. Most recently, I have also emphasized education research. In the past three years the two themes have been fairly even in effort but not publication numbers (form/function 9 articles 8 book chapters, versus 5 articles, 1 podcast in education). I begin with the significance of my recent work in education research and then that in mastication. I am dedicated to both areas of research and see them as complementary.

"Before making a clinical decision, we consider our confidence in the decision, the likelihood of it being correct, and the potential harm that might occur should it be wrong. Why shouldn't trainees consider the same issues during formative didactic training? Curtis *et al.* evaluated dimensions of student confidence in relation to the accuracy and potential clinical impact of answers on a multiple-choice assessment. Evaluating confidence and correctness allowed for the identification of the uninformed (incorrect and unsure) as opposed to the misinformed (incorrect but confident) student, thereby identifying strongly held incorrect beliefs. Identifying and reshaping what students *think* they know may be as important as measuring what students *do* know."

This is the introduction I wrote for an article published in the June, 2013 Medical Education issue and represents my educational research focus, which is improving feedback to students. Our research argues that the concordance of confidence and correctness is an important dimension of becoming an expert and more important than the singular focus on knowledge. Clinical judgment in trainees is not developed from binary feedback (correct/incorrect), but asking them to reflect when they are making clinical decisions. By asking students to consider confidence and clinical impact during formative didactic MCQ assessments, we are asking them to consider more of the dimensions important in clinical decision-making.

The other related educational focus is how we, as clinicians, process feedback and account for adverse outcomes. Do we learn from our mistakes? In dentistry, cognitive or diagnostic errors as a basis for adverse clinical outcomes are largely ignored. Because of my work in this area, I was asked to write a guest editorial for the International Journal of Oral and Maxillofacial Implants (June, 2013) on cognitive errors in dentistry. A few of the key points I identified are summarized below:

"The calibration of confidence and correctness is especially important in dentistry, since we have few sources of effective feedback by which to monitor the effectiveness of our treatment or our professional development. Unlike our medical colleagues who are granted privileges by credentialing committees from their respective hospitals, dentists tend to practice independently, deciding themselves which procedures are offered to their patients. It is easy for the clinician to make the same mistake multiple times and find "externalized" explanations, or see the errors in prior treatment of a recently referred patient but not their own treatment. We often forget human judgment is distorted by cognitive, perceptual, and motivational biases, and that these biases are often recognized in others but not in ourselves."

"Many of us have been providing clinical care for a while have developed lectures on complications, often based on treatment we have provided. Humble pie is a healthy first step. Recent national meetings have included scientific sessions devoted to nothing but complications. However, missing from these lectures and scientific forums is a healthy discussion of cognitive errors. We all make errors in judgment. Consideration of cognitive errors as a basis for adverse outcomes and development of a taxonomy of cognitive errors in

dentistry would be a welcome start to providing relevant feedback to clinicians that could ultimately improve patient outcomes."

We recently developed a taxonomy of cognitive errors in dentistry and hope to have the manuscript accepted for publication before January 15, 2014. We determined the most common cognitive error in dentistry was being refractory to altering the treatment direction based on the available information. Often there are data suggesting that the clinical care direction should be changed, but frequently we ignore this information, resulting in an adverse outcome. We also determined that complications in treatment can often be avoided, and are usually based on errors in diagnosis which are later manifested in treatment outcomes. We conclude by stating feedback from mentors and peers is important, but underemphasized is how clinicians respond to feedback from their environment. We hope this information and research will change the culture in dentistry to one more accepting of an open discussion of cognitive errors.

My research focus over the past 25 years has been on oral function following alteration in anatomic form. Initially, much of the work was with animal models evaluating early and late adaptations to altered occlusion. Later, we evaluated function and adaptations in oral cancer patients with clinical studies and simulation models. More recently, we have been looking at adaptations within the supporting tissues of the periodontal ligament, bone and cementum to altered loading and function.

The adaptability of craniofacial function to alteration in anatomic form is important to understand. We have shown that functional adaptations can occur both locally and in distant anatomic sites in both hard and soft tissue. In a series of experiments using adult rhesus macaque monkeys fitted with splints designed either to deviate the mandible laterally or open it vertically, local dentoalveolar adaptations occurred first, but remodeling in distant bony sites such as the neck of the condyle occurred later. In a related second study, we showed that vertical opening while maintaining occlusal stability (no deviation of the jaw) resulted in few measurable changes. The significance of these papers was to show that the common clinical procedure of increasing the occlusal vertical dimension when the dentition is severely worn may be possible in adults if occlusal stability is maintained, and that when occlusal stability is not maintained, both dentoalveolar and craniofacial adaptations at different time points are likely to occur. This work has continued with a recent publication (Jaw Biomechanics after Segmental Mandibular Resection and Reconstruction Hannam AG, Stavness K, Lloyd JE, Fels S, Miller AJ, Curtis DA J Prosthet Dent 2010) and was presented at the American College of Prosthodontists meetings (2009, 2013), and in Alexandria, Egypt (2012).

Patients with oral cancer are an excellent model by which to better understand how alterations in anatomic form influence function. Because these patients are very heterogenous, we have used computer modeling to isolate variables that may impact masticatory function in very specific groups such as hemimandibulectomy (HM) patients. Through a series of experiments, we demonstrated incisal biting force is more dramatically impacted than first molar bite force in HM subjects, and that the clinically observed phenomenon of frontal plane rotation can be predicted and understood from a developed modeling program (Hannam et al, 2010). The clinical implication of this research is understanding functional deficits prior to cancer surgery, and predict the potential impact of reconstructive surgery.

It is also important to study and understand adaptations at the micro scale. In a series of collaborations with Dr. Sunita Ho and colleagues, we have shown how something as simple as

changing the hardness of the diet in rats can result in measurable changes in the mineralization values of bone proximal to teeth (Niver EL, et al. 2011).

In summary, the past three years has been the most productive research period of my career and much of this was possible because my Department Chair, Dr. George Taylor, worked with me to allow for more research time and focus.

Significant Publications

1. **Curtis DA**, Lind S, Boscardin CK, Dellinges M. Does student confidence on multiple-choice question assessments provide useful information? *Med Educ* 2013;47:578-584
Role on paper: PI for project, gathered data, primary author
Summary: We challenged the status quo for the use of multiple-choice questions during formative assessments. By measuring confidence we were able to identify the uninformed (incorrect and unsure) and the misinformed (incorrect but confident) students. This research paper and related research was well received, resulting in numerous invitations to speak at national and international meetings (London, UK, 2010; Alexandria, Egypt, 2012, invitation Brazil 2014), at other dental schools (UOP, 2012), and included collaboration with Kevin Eva, PhD, Editor of Medical Education on a podcast (<https://itunes.apple.com/gb/podcast/medical-education-podcasts/id590677918>).
2. **Curtis DA**, Lind SL, Dellinges M, Setia G, Finzen FC. Self-assessment of pre-clinical examinations by dental students. *J Dent Educ.* 2008,3,265-77
Role on paper: PI for project, gathered data and wrote most of manuscript
Summary: While I agree that self-efficacy is more important than global measures of self-assessment, I do think methodological issues have made interpreting the self-assessment literature difficult. This was the first paper to relate changes in self-assessment scores over time to changes in correctness over time. We found students who improved in self-assessment also improved in examination scores. In a related paper we showed females tend to benefit more from self-assessment than males. This manuscript was the basis for an invitation to organize and present the Presidential Symposium at the American Dental Education Association in 2010, and presentations at dental schools (Kentucky, 2010; UOP, 2012).
3. **Curtis DA**, Plesh O, Miller AJ, Curtis TA, Sharma A, Schweitzer R, Schour L, Singer M. A comparison of masticatory function in patients with or without reconstruction of the mandible. *Head & Neck* 1997;19: 287-296.
Role on paper: PI for funding, gathered data, and wrote manuscript
Summary: A multidisciplinary collaboration that included UCSF SM department chair (Singer) and president of the National Chapter of the American Cancer Society (Schweitzer) which provided a great learning opportunity for me. Our major findings showed that reconstructed patients had improved mastication as a result of a more stable occlusion and that bite force as an outcome measure was poorly predictive of patient reports of masticatory function. We showed measures of tongue function were more important than bite force in predicting masticatory function. Prior to this study, the primary outcome used to determine improvement was increased occlusal bite force, which we showed was much less relevant than measures of tongue function. This and

related research helped change the surgical practice of using the tongue to close surgical wounds because of the importance we demonstrated of tongue volume and mobility.

4. Hannam AG, Stavness K, Lloyd JE, Fels S, Miller AJ, **Curtis DA** Jaw Biomechanics after Segmental Mandibular Resection and Reconstruction J Prosthet Dent 2010;104:191-198
Role on paper: The paper reflects a 20-year exchange of ideas between Miller, Hannam, and Curtis which was necessary for the iterative process of developing parameters of model inputs and relating this to clinical significance.
 Summary: Scarring and fibrosis following head and neck surgery and radiation have a dramatic effect on mastication and QOL, but is poorly understood. This was the first model of mandibular movement to incorporate the impact of scarring and fibrosis. The major findings showed that dynamic modeling can be a useful way to study oral biomechanics, that mandibular opening and closing trajectories can be explained by a combination of muscle vectors and models of scarring nodes, and that scarring and soft tissue tension probably explains mandibular deviation and frontal plane rotation in hemimandibulectomy patients more than muscle imbalance.

5. Ho S, Kurylo MP, Grandfield K, Hurng J, Herber RP, Ryder MI, Altoe V, Aloni S, Feng J, Webb S, Marshall GW, **Curtis DA**, Piennatta P, Andrews Hayter J, The Plastic Nature of the Human Bone-Periodontal Ligament-Tooth Fibrous Joint. Bone 2013; 57:455-467
Role on paper: Worked with primary author for two years on concepts, relevance and clinical applications. Assisted with writing the manuscript.
 Summary: I am especially proud of my collaborations with Dr. Ho showing how and where micro- adaptations to occlusal forces occur. In clinical dentistry we tend to study what we can see and what is measurable. There is very little discussion of biologic adaptations, especially of tissues difficult to measure such as the PDL, cementum, and bone. The work I have done with Dr. Ho the past three years was to investigate the numerous, recently measurable adaptations within the PDL, bone and cementum from occlusal loading forces and how these adaptations have relevance to explaining outcomes basic to the success or failure of our restorations and procedures. The editor liked our article so much he featured it on the cover of the journal.

RESEARCH AWARDS - CURRENT

1. P0500850	PI		
International Team for Implantology Foundation, Switzerland. Awarded but not funded due to disagreement between UCSF and ITI on IP		09/01/2014	09/01/2016
Critical Thinking and Confidence among Students of Implant Dentistry		\$ 62,613 direct/yr 1	\$ 123,913 total

RESEARCH AWARDS - PAST

1.	PI		
	Joint Commission on National Dental Examinations. IDEA grant. Applied and was not funded. No applications were funded.	2012	2014
	Identifying Misconceptions in Biomedical Education		\$ 60,000 total
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2.	PI		
	Greater New York Academy of Prosthodontics	2009	2009
	Failure of Acrylic Resin around Dental Implants	\$ 2,000 direct/yr 1	
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3.	PI		
	Parnassus Club Funding	2006	2006
	Fixed Prosthodontic Objective Structured Clinical Examination (OSCE)	\$ 4,000 direct/yr 1	\$ 4,000 total
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4.	PI		
	Instructional Grant Award, Academic Senate		2002
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5.	PI		
	Dentco Research and Development Corporation	1998	1998
	Use of instrumentation to remove fixed bridges		\$ 500 total
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6.	PI		
	American College of Prosthodontist/Proctor and Gamble Research Grant	1997	1997
	Role of Implant Loading in the Success of Complete Dentures		\$ 5,000 total
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7.	PI		
	Corporate funding from Ivoclar International	1996	1996
	Bond Strength of acrylic resin teeth to high impact resins		\$ 600 total

8.	#2KT0023	PI		
	Tobacco-Related Disease Research Program		1991	92
	Stabilizing the Occlusion in the Dentate Hemimandibulectomy Patient			\$ 106,008 total
9.		PI		
	Dental School Research Committee, Multi-user equipment proposal			1991
	Recording and analyzing mandibular movement			\$ 7,500 total
10.		PI		
	Education and Research Foundation of Prosthodontics			1990
	Stabilizing the Occlusion in the Dentate Hemimandibulectomy Patient			\$ 2,500 total
11.		PI		
	New York Academy of Prosthodontics. First place in the Granger-Pruden National Prosthodontic Research Competition		1990	1990
	Adaptability within the adult primate craniofacial complex to asymmetrical lateral forces			\$ 2,500 total
12.		PI		
	Pew Career Development Grant		1989	1990
	Computer Modeling of Mandibular Movements in Oral Cancer Patients			\$ 22,000 total
13.		PI		
	Committee on Research, Academic Senate		1988	1988
	Reproducibility of Mechanical Equivalents to Mandibular Movement			\$ 7,631 total

14. R01 DE022032-01	Consultant- no salary PI Sunita Ho		
	1. Consultant- No salary (PI: Sunita Ho) Load-mediated adaptation of the bone-PDL-tooth complex in vertebrates.		
15.	Consultant- no salary NSERC Strategic Proposal Canadian Research Council Biomedical simulation model of the oral and pharyngeal regions	2007 \$ 606,700 direct/yr 1	2010 \$ 1997 total
16. K16 DE00386	No salary Co-investigator The dentist-scientist training program at UCSF PI: GW Marshall	1997	2001 \$ 1,688,791 total
17. R03 DR089871990-92	Co-investigator PI: S Kapila National Institute of Dental Research Effect of mandibular position on craniomandibular growth	1990 \$ 21,000 direct/yr 1	92 \$ 21,000 total
18.	PI: Art Miller Co-investigator Research Committee, School of Dentistry Multi-user proposal: Establishment of an integrated neuromuscular laboratory	1989	1990 \$ 13,300 total
19.	Co-investigator PI: Octavia Plesh Research Committee, School of Dentistry Axiograph instrumentation to study mandibular movement	1989	1990 \$ 12,900 total
20. PI: S Kapila		1989	1990 \$ 7,700 total
	Effect of altered occlusal position on craniomandibular growth		

21. P.I. S Kapila	Co-investigator		
Committee on Research, Academic Senate		1989	1990
Effect of mandibular position on craniomandibular growth		\$ 7,547 direct/yr 1	
22.	Co-investigator PI: L Lum		
Corporate funding from Calcitec Inc.		1988	1990
Bone-implant interface of load-carrying hydroxylapatite and uncoated titanium implants		\$ 22,000 direct/yr 1	

PEER REVIEWED PUBLICATIONS

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maintenance of patients with tooth-borne and implant-borne dental restorations. *J Prosthodont* 2016;25:S32-S40

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2. **Curtis DA.** Masticatory Performance Measures for Maxillofacial Prosthodontics. In McNeill C, ed. *Science and Practice of Occlusion*. Chicago, Quintessence Publ. Co., 1997
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6. **Curtis DA, Sharma AB, Plesh O.** In *Hall's Critical Decision in Periodontology & Dental Implantology. Implant Design for Partially Edentulous Patients*. Harpenau L, Kao R, Lundergan W, and Sanz M. 2013
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9. Kao R, **Curtis DA.** In *Hall's Critical Decision in Periodontology & Dental Implantology. Extraneous Factors: Restorative Considerations*. Harpenau L, Kao R, Lundergan W, and Sanz M. 2013
10. The American College of Prosthodontists asked Dr. Johnathan Wiens to write a textbook for dental students that would become the standard for what dental students should know about dental occlusion. Because of the dynamic modeling of mandibular movement I have completed and the different animal models I have used to show adaptations to occlusal forces, Dr. Wiens asked me to write two of the chapters. The chapters are on treatment planning and on advanced topics. Dr. Sunita Ho from PRDS has also been asked to participate. The chapters will be completed by February, 2014 and the book is scheduled for publication April, 2014.
11. **Podcasts**
12. **Curtis DA, Chander J,** Interview with Jayshree Chander, MD, MPH on "Your Mouth Matters" where we discuss oral health and quality of life measures. 2012 At: <http://www.neijingnow.org/2012/09/episodes/your-mouth-matters/>

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12. **Curtis DA**. Outgoing President's Message, Fall Newsletter, Pacific Coast Society for Prosthodontics, 2013
13. **Curtis DA**. Managing Dental Erosion. Smile Digest, 2014 UCSF OMFS Newsletter
14. **Curtis DA**. I was asked to write a position paper for the American College of Prosthodontists on the merits of fluoridation. 2014

CONFERENCE ABSTRACTS

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2. **Curtis DA**. A comparison of protrusive interocclusal records to pantographic tracings. J Dent Res 1988, 67, 1932. (presenter)

3. **Curtis DA**, Miller AJ, Nielsen I, Kapila S. Lateral shifts of the occlusion of the Macaca Mulatta monkey. J Dent Res 1989, 94, 1866. (presenter)
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5. Shen M, **Curtis DA**. The undergraduate program in geriatric dentistry. J Dent Ed 1989, 26, 285.
6. **Curtis DA**, Hannam A, Curtis T, Miller AJ. Occlusal instability in the hemimandibulectomy patient. J Dent Res 1990, 69, 135. (presenter)
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48. J. M. Hurng^a, S.I. Djomehri^a, M. P. Kurylo^a, J. A. Hayter^b, S. M. Webb^b, P. A. Pianetta^b, **D. Curtis**, S. P. Ho Elastic Discontinuities: A Potential "Marker" for Pathology 2012
49. Greene J, Jang A, Lin J, **Curtis DA**, Ho SP. Water affects periodontal ligament mechanics. Research Day 2012
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51. Wu H, **Curtis DA**. The auricular prosthesis for an elderly patient with Treacher Collins syndrome. American College of Prosthodontics 2013
52. Greene, JP, Jang JD, Lin JD, **CURTIS DA**, and S.P. HO, Biomechanics of the Periodontal Ligament, accepted to be presented at the International Association for Dental Research, Seattle, Washington, 2013
53. Du J, Grandfield K, Lin JD, Prevost R, Fahey K, Merkle A, **Curtis DA**, Ho SP. Biomechanics of human bone-PDL-tooth joints. 2013 UCSF Research Day

OTHER CREATIVE ACTIVITIES

1. 2000 Syllabus for junior dental students on relevant implant literature and nomenclature. 2012 Interview with Jayshree Chander, MD, MPH on "Your Mouth Matters" where we discuss oral health and quality of life measures. At: <http://www.neijingnow.org/2012/09/episodes/your-mouth-matters/>
2. In 2003 I received funding and developed an OSCE on fixed prosthodontics/>