

FACULTY PROFESSIONAL BIOGRAPHY

College of Dentistry
The University of Illinois at Chicago

Date of preparation 2/1/17

I. Personal Data

1. Name Clark Mitchell Stanford 2. Department: Dental Administration and Department of Restorative Dentistry
3. Present Rank UIC Distinguished Professor and Dean
4. Date appointed to present rank 10/1/2014

II. Higher Education, formal programs (most recent first)

<u>Date Awarded</u> <u>(Mo/Yr)</u>	<u>Degree</u>	<u>Major</u>	<u>Institution</u>	<u>Dates Attended</u>
08/1992	Ph.D.	Cell Biology	University of Iowa	(1987-1992)
05/1992	Certificate in Prosthodontics		University of Iowa	(1987-1992)
05/1987	D.D.S.	Dentistry	University of Iowa	(1983-1987)
05/1984	B.S.	Zoology	University of Iowa	(1979-1983)

III. Professional Employment: Appointments (most recent first)

<u>Mo/Yr</u>	<u>Rank/Title</u>	<u>Institution</u>
11/10/2014- Present	UIC Distinguished Professorship	University of Illinois at Chicago, Chicago, IL.
10/1/2014- present	Dean and Professor	University of Illinois at Chicago, Chicago, IL
10/1/2014- Present	Professor, Dept. Bioengineering College of Engineering	University of Illinois at Chicago, Chicago, IL.
11/1/2015- present	Centennial Professor of Clinical and Translational Research (<i>Emeritus Status</i>)	The University of Iowa, College of Dentistry Iowa City, Iowa
1/1/2008- 9/30/2014	Associate Dean for Research	College of Dentistry, University of Iowa, Iowa City, Iowa
3/1/2007-	Professor (secondary)	Department Biomedical Engineering, College of Engineering

*Permanent Status was a second international peer review of the term-professorship which upon approval converts the Professorship to the highest level of recognition, allowing the awardee to carry this status into retirement (essentially an emeriti status).

9/30/2014		University of Iowa. Competitive Renewal approved 10/2013.
7/1/01- 9/30/2014	Centennial Fund Professor of Clinical and Translational Research	University of Iowa, College of Dentistry Dows Institute for Dental Research and Department of Prosthodontics (Converted to <i>Permanent Status</i> , 6/2006)*
7/1/01 - 9/30/2014	Professor (secondary)	University of Iowa, Roy J and Lucille Carver College of Medicine, Department of Orthopaedic Surgery and Rehabilitation
7/1/96 - 6/30/01	Associate Professor	University of Iowa, College of Dentistry Dows Institute for Dental Research and Department of Prosthodontics
7/1/96 - 6/30/01	Associate Professor (secondary)	University of Iowa, College of Medicine, Department of Orthopaedic Surgery and Rehabilitation.
7/1/95- 6/30/96	Assistant Professor (secondary)	University of Iowa, College of Medicine, Department of Orthopedic Surgery and Rehabilitation.
7/1/92- 6/30/96	Assistant Professor	University of Iowa, College of Dentistry Dows Institute for Dental Research and Department of Prosthodontics
7/1/87- 6/30/92	Postdoctoral Associate	Department of Biology, University of Iowa

IV. Certification and Licenser (Eligibility, stage of completion)

<u>Board</u>	<u>Date</u>
1. Central Regional Dental Board	5/1987
2. Licensed in the Practice of Dentistry, State of Iowa	6/87 - present
3. Educationally Qualified for the Prosthodontic Board (American Board of Prosthodontics)	8/1992
4. State of Illinois Dental Licensure and Specialty Board Status	8/2014-present

V. Honors and Awards (most recent first)

- Visiting Professor, Nanjing Medical University (10/2016)
- Fellowship Status, Chicago Academy Dental Research (2015)
- Fellowship Status, Institute of Medicine (IOM) (2015)
- Fellowship Status, Academy of Osseointegration (2012)
- 2010-2011 Committee on Institutional Cooperation (CIC) Academic Leadership Fellow
- 2007 Distinguished Scientist Award, Prosthodontics and Implants
International Association for Dental Research
- State of Iowa 2006 Regents Award for Faculty Excellence
- University wide election by all faculty to “Permanent” Status for Centennial Fund Professorship of
Clinical Research 6/2006

- Journal of Dental Research Article of the Year Award 3/2006
- American Dental Education Association (ADEA) Leadership Institute Fellow 3/2005-3/2006
- American College of Prosthodontists Clinician Scientist of the Year Award 2005
- American College of Prosthodontists Educator of the Year Award 2002
- Iowa Dental Student Research Association Mentor of the Year 2002
- Fellow Status, International Team for Oral Implantology (ITI)
- Fellow Status, Academy of Prosthodontics
- Endowed Centennial Fund Professorship of Clinical Research 2000 – 2014
- President, Iowa Section of the AADR 1998-2000
- Carl Svare Graduate Research Award, April 1990
- AADR Edward Hatton Award, April 1990
- NIH Dentist-Scientist Award, 1987-1992
- Elected to Omicron Kappa Upsilon, May 1987
- Pierre Fauchard Award, May 1987
- Dentsply International Award for Fixed Prosthodontics, May 1987
- Academy of Dental Materials Award, May 1987
- Outstanding Scholars Award, 1985-1987
- R.E. Minger Award, May 1985
- Superior Achievement Award in Dental Gross Anatomy, May 1985
- University of Iowa Dean's List, 1979-1983

VI. Professional Appointments (consultantships, editorships, review panels, etc.; most recent first)

<u>Year</u>	<u>Title</u>
5/2014-present	Nominated and elected as a member to the “Task Force on Design and Analysis in Oral Health Research.” This is a legacy group, founded by the ADA as a rigorous assessment of oral health clinical trials and a forum for developing the best in oral health outcome measures.
10/2007-9/2014	Key Function Director, Institute for Clinical and Translational Science (ICTS) Novel Translational Technologies (Nanoscience)
3/2003 - 10/2007	Associate Director, General Clinical Research Center (GCRC) College of Medicine, University of Iowa Hospitals and Clinics
1/2000 - present	Centennial Fund Endowed Professorship, College of Dentistry, University of Iowa
8/1999 – 9/2014	Director of Clinical Research, College of Dentistry, University of Iowa
7/1995 – 9/2014	<u>Research Coordinator</u> - Department of Prosthodontics, College of Dentistry, University of Iowa
5/1995 – 9/2014	<u>Investigator</u> - Musculoskeletal Disease Research Center, College of Medicine, University of Iowa

4/1995 - 2/2002	<u>Investigator</u> - Diabetes and Endocrinology Research Center, College of Medicine, University of Iowa
3/1995 – 9/2014	<u>Investigator</u> - Aging Center Training Grant, College of Medicine, University of Iowa
1987- present	Delegate to International Standards Organization (ISO) and ANSI for TC-106 working group (SC 8) on Dental Implants
1991-2003	Consultant to the Council for Dental Materials, Instruments and 2003 Equipment, (1991 - 1995), now the Council on Scientific Affairs (1995 - 2003), American Dental Association

VII. Committees (include chair and officer positions; most recent first)

<u>Year</u>	<u>Committee</u>	<u>Organization</u>
<u>National/International</u>		
3/2016-present	Commission on Dental Accreditation , Under-graduate Site Visitor	ADA CODA
10/2015-present	CDS Mediator and Peer Review Committee member	Chicago Dental Society ISDS/ADA
3/2016-7/2016	External Member, NIDCR BCR Review of the intramural NIDCR Office for Clinical Research (sole external reviewer).	NIDCR
1/2016-3/2016	Member, NIDCR Study Section Council ZDE1 VH 13, 3/22/2016 Review Study Section for RFA DE16-007: Novel or Enhanced Dental Restorative Materials for Class V Lesions.	
3/2016-present	Treasurer & Executive Committee Member	Academy of Osseointegration
5/2014-present	Fellow: Task Force on Design and Analysis in Oral Health Research. An ADA designated committee to advise on the best in statistical design and clinical trial performance.	
3/2010 - present	Board of Directors	Academy of Osseointegration (AO)
10/2012-65/2016	2014 Summit (Chair) on <i>Current Best Evidence in the Management of the Edentulous Maxilla.</i>	Academy of Osseointegration (AO)
5/2010 - present	Dental Products Panel of the Medical Devices Advisory Committee	Food and Drug Administration (FDA)
2/2008 - 6/2010	Strategic Vision Committee	Academy of Osseointegration (AO)

2/2008 – 2014	Research Committee (Chair) (AO Board Liaison)	Academy of Osseointegration (AO)
10/2010-3/2016	Website Committee (AO Board Liaison)	Academy of Osseointegration (AO)
10/2010-present	Chair, AO/IADR Research Award in Implant Sciences	Academy of Osseointegration (AO and Int. Association for Dental Research
10/2007 – 2/2012	Research and Education Division (Director) (Elected 2007, re-elected by total membership of college 10/2010) (Voting Board Member)	American College of Prosthodontists
10/2006 - 10/2007	ADA Council on Scientific Affairs (Chair)	American Dental Association
2/2011 - 3/2012	Distinguished Scientist Award Committee (Chair)	IADR
1/2005 - 3/2006	Young Investigator's Award (Chair)	International Assoc for Dental Research
10/2005 - 3/2007	2008 Academy Osseointegration joint AO, AAOMS, AAP, ACP Combined Meeting, March 2008, Boston MS	ACP Representative on Planning Committee
10/2005 - 11/2008	Program Chair, Annual Session Meeting 2008 ACP Meeting, Nashville, TN	American College of Prosthodontists
12/2003 - present	ADA CSA Representative to the ADA Standards Committee on Dental Products (ANSI ISO Representative)	American Dental Association
12/2003 - 7/2007	ADA Advisory Committee on Evidence-based Dentistry (CSA Representative)	American Dental Association
11/2003 - 7/2008	FOCUS Steering Committee (Chair)	Astra Tech AB/Astra Zeneca AB
10/2003 - 10/2007	Council Member Council on Scientific Affairs	American Dental Association
6/2003 – 5/2012	Scientific Advisory Committee (Chair)	Astra Zeneca AB Astra Tech AB
5/2003 - present	Corporate Liaison Committee	Academy of Prosthodontics
5/2003 – 5/2013	Program Committee	Academy of Prosthodontics

3/2003 - present	Research Award Nomination Committee	International Association for Dental Research
7/2007 – 7/2009 7/2009-present	Scientific Advisory Board (Chair) Scientific Advisory Council (Chair)	National Foundation for Ectodermal Dysplasias
1/02 - 10/2007	Scientific Advisory Board	National Foundation for Ectodermal Dysplasias
5/2002 - present	International Team for Oral Implantology	Fellow Status. ITI/International Team for Oral Implantology
12/95 - 1/2007	Research Committee member	The American College of Prosthodontists
1/02 - 1/2007	Chair, Research Committee	The American College of Prosthodontists
4/01 – 8/2011	Secretary/Treasurer Implant Research Group	International Association for Dental Research
4/00 - 4/01	AADR Councilor	International Association for Dental Research
3/99 - 3/01	IADR/AADR Exhibits Committee	IADR/AADR
3/99 - 4/00	President, Implant Research Group	International Association for Dental Research
3/98 - 3/99	Vice-President, Implant Research Group	International Association for Dental Research
3/97 - 3/98	Director at Large I, Implant Research Group (Symposium Coordinator)	International Association for Dental Research
3/95 - 3/97	National Institutes of Health Study Section	SBIR (Small Business Initiative Grant Program)
3/96 - 3/97	Director at Large II, Implant Research Group	International Association for Dental Research
3/95-3/96	Director at Large III, Implant Research Group	International Association for Dental Research
10/98 - 9/01	President, Iowa section of the AADR	
10/97 - 10/98	Vice President, Iowa Section of the AADR	
8/94 - present	Editorial Committee:	

Associate Editor:

International Journal Prosthodontics

International Journal Oral Maxillofacial Implants

Japanese Journal of Prosthodontics

Member of the Editorial Board for:

Biomaterials

Journal of Dental Research (1/98-12/01)

Journal Biomechanics

Journal Prosthetic Dentistry

Journal Orthopaedic Research

Clinical Orthopaedic and Related Research

Journal Bone and Mineral Research

Journal Special Care in Dentistry

International Journal Oral Maxillofacial Implants

Archives of Oral Biology

1988 - present

American National Standards Institute
Member, TC-106 subgroup for Dental Implants

University:

10/2016-present

Co-Chair, Search Committee, Dean of School Public Health, UIC.

8/2016-present

UA Implementation Planning Task Force for the UI System

3/2016-present

UIC Cancer Center Advisory Committee

3/2015-8/2015

UIC Chancellor's Strategic Mission and Visioning Task Force

2/2015-1/2016

UIC Search Committee for Vice-Chancellor for Health Science Affairs (VCHA)

10/2014- present

UIC Council of Deans Committee

10/2014-present

UIC Health Sciences Council

10/2014-present

UIC Center Clinical and Translational Sciences (CCTS), CTSA Clinical Research Center Management Committee. Director, Pilot Grants.

4/2013-9/2014

UIowa Vice President for Research Advisory Committee on Conflicts of Interest in Research

7/2010-10/2014

UIowa Institutional Review Board (IRB) Advisory Committee

10/2010-5/2011

University of Iowa Provost Search Committee- Search Committee Member

4/2009 - 2/2010

University of Iowa Strategic Initiatives – Research and Creative Excellence Task Force

2/2009 - present

University of Iowa Patent Advisory Committee, VP Research Office

1/2008 – present	Committee of Associate Deans for Research, VPR Office, University of Iowa
6/1/2006 - present	Nanoscience and Nanotechnology Institute Executive Committee
1/2006 - present	Institutional Clinical and Translational Research Award Executive Committee
6/2006 - 12/2006	UI Presidential Search and Advisory Committee
2/2005 - 3/2006	Clinical Trials Center Task Force
1/2004 – 5/2007	K-12 Clinical Research Training Grant Advisory Committee (College of Medicine)
11/2001 – 5/2007	General Clinical Research Center Advisory Committee (GAC)
7/1999 – 7/2010	University Faculty Judicial Commission
7/1997 - 6/1999	Vice-President for Research Advisory, Committee in the Biological Sciences
7/1998 - 6/2000 7/1994 - 6/1997	University of Iowa Faculty Senator
7/1994 - 7/1995	Vice-President for Research Advisory, Committee in the Biological Sciences
7/1994 - 7/1995	Collegiate representative to the President's Biosciences Initiative for the Health Sciences
<u>Collegiate:</u>	
10/2014-present	UIC College of Dentistry's Administrative Staff Committee (Chair)
1/09 - 5/09	Search Committee member, Associate Dean for Student Affairs
1/09 - 2/09	Search Committee member, Associate Editor II
1/08 – 10/2014	UIowa Administrative Deans Staff Committee
2008 - 2009	Go-Green Committee
10/2004 - 2005	U-24 Planning Grant Internal Advisory Committee
8/2003 – 10/2014	T-32 Training Grant Advisory Committee (UIowa College of Dentistry)
11/2003 - 6/2007	Faculty Promotion Advisory Committee (FPAC); UIowa
7/99 – 10/2014	UIowa Collegiate Executive Committee
7/99 - 6/01	UIowa Clinic Management Committee
10/98 - 1/99	UIowa Chair, Task Force on Clinical Research

7/93 - 6/99	UIowa Collegiate Curriculum Committee
7/93 - 7/01	UIowa Student Research Committee
7/95 – 10/2014	UIowa Collegiate Research Committee
2/97 - 8/97	UIowa Dean's Review Committee
7/1/94 - 9/95	UIowa College of Dentistry Task Force on Faculty, Profiles for Excellence
1/93 - 6/93	UIowa Informatics Committees

VIII. Professional Memberships (include offices held; most recent first)

<u>Year</u>	<u>Organization</u>
1987 -	American Society for Cell Biology
1983 -	American Dental Association
1983 -	American Association for Dental Research/International Association for Dental Research
1983 -	American Association for the Advancement of Science
1983 -	Iowa Dental Association
1987 -	American College of Prosthodontists
1994 -	Orthopaedic Research Society
1994 -	Academy of Osseointegration
1999-2002	Associate Fellow, Academy of Prosthodontics
2002 -	Fellow, Academy of Prosthodontics
2002 -	Fellow of the International Team for Oral Implantology (ITI)
2003 -	Society for Biomaterials
2003 -	American Dental Education Association (ADEA)
2005-	International College of Prosthodontists (ICP)

IX. Areas of Research Interest

1. Role of metal oxide surfaces in regulating osteoblastic gene expression.
2. Development of standardized culture models for evaluation of biological/biomaterial responses.
3. Effects of cytoskeletal perturbation (strain) at physiological levels on cellular and nuclear activities.
4. Mechanical development of approaches for creating physiological levels of strain.
5. Role of non-collagenous proteins in altering the temporal and spatial formation of a mineralizing extracellular matrix.
6. Evaluation of steady state message for bone related proteins using linear PCR amplification of a cRNA first strand pool derived from osteoblastic cells.
7. The transduction cascade mechanisms involved in regulating mineralization.
8. Relationship between dynamic stress loading from dental and orthopaedic implant systems and cortical strain responses as a function of loading parameters, cortical bone properties and framework design.
9. Clinical outcomes assessment of dental implant treatment.
10. Computer simulation of learned tactile responses and studies for developing a robotic force feedback teaching and clinical outcomes evaluation.
11. Clinical research protocol designs for outpatient studies.

X. Current Projects

1. Evaluation of the differential osteoblast response to oxide metal surfaces. Characterization of matrix associated glycoproteins in an in vitro culture system. Development of a viable osteoblast culture system for the assay of biomaterial responses.
2. Collaborative work with Dept. of Orthopaedics, University Hospitals and Clinics, involving bone responses to a mechanically active environment. Research efforts have resulted in the design and fabrication of a custom device that can create cytoskeletal perturbation at physiological levels of mechanical strain. Research efforts have concentrated on the isolation and characterization of human osteogenic cells derived from patients with osteoporotic bone disease.
3. An ongoing research collaboration with Dr. Galen Schneider (DDS, PhD) exploring the influences of mechanical forces on the mineralization phenotype of a bone, osteosarcoma cell type. Osteoblast-like cells and a special cell line (UMR 106-01 BSP, described below) are used to explore the manner in which bone-like phenotypic markers are altered when subjected to mechanical strain parameters of magnitude, frequency and duration.
4. Outcomes performance evaluation of dental implants in an industry sponsored clinical trial. The implant study is used as a means of additional multidisciplinary projects (quantitative radiology for Bone Mineral Density, Bone cytokine expression, along with clinical evaluations for changes in speech, nutritional status and patient self-perceived attitudes (implant-related mini-OHIP assessment).

XI. Financial Resources (Grants and Contracts; include funded, pending, and approved but not non-funded applications; list most recent first in each category)

<u>Role on Project</u> <u>Title</u>	<u>(e.g.: PI, Co-PI, consultant)</u>	<u>Dates</u>	<u>Amount</u>
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Federal:

Clinical and Translational Science Award (U54). University of Illinois.	Management Committee Member, Pilot grant director.		\$14,910,395 (DC) \$22,054,137 (TC) (Pending)
Dental Science Building- Oral Health Research Facilities Improvement 1CO6 RR030299-01. Submitted 7-15-09	PI		\$9,708,334 Total Project Cost = \$11,287,386 (not awarded)
Outcomes of Dental Care in Patients Affected with Ectodermal Dysplasias 1RC1DE020258-01 Submitted 4/20/2009			\$986,528 (not awarded)
Oral Rehabilitation Outcomes Network (ORONET Collaboration) NIH	Principal Investigator		\$13,646

General Clinical Research Center (Robillard, Jean- PI) (ended 10/2007) as MO1 RR00059-42 with CTSA award National Center Research Resources (NCRR)	Associate Director (20% effort)	Funded	\$3,522,357 DC Yr 13/01/03-2/27/08 \$3,917,335 TC Yr 1 \$18,943,982 DC \$21,083,313 TC (Completed)
U54 RR023418-01A1 (Rosenthal-PI) NIH/NCRR Clinical and Translational Research Award (CTSA) Clinical and Translational Methodologies (Nanoscience/Nanotechnology) and Associate Director, Dental Clinical Research Center	Associate Director of Novel Methodology Key Function	Funded	10/1/2007–4/1/2012 3.6 cal. mo. YR1 DC \$6,000,000 TDC \$32,000,000
Conservative Treatment of Patients with Temporomandibular Disorders. Developmental Center for Research on Complementary and Alternative Medicine Phase I NIH/NCCAM 1 U19 AT004663-01	Principal Investigator	Funded	4/21/2008–2/28/2013, 1.8 cal. mo. \$326,997
Nanocoatings for Biomedical Applications (PI:Wenping Jiang) NIH/NIDCR SBIR Grant 5 R43 DE015730- 02	Investigator (2.5 % effort)	Funded	9/30/2005-8/31/2008 \$71,427 DC
Institutional Training Program in Oral Health Research. NIDCR T32-DE14678-01	Training Program Co-Director (10% effort)	7/1/02- 7/31/12	\$382,725 DC Yr1 \$408,937 TC Yr1 \$2,662,949 TDC \$2,846,111 TC
Using Force Feedback Devices to Train and Assess Recognition of Force Signals as a Component of Professional Skill. National Science Foundation (NSF 0223006) PI: Dr. Geb Thomas (College of Engineering)	Co-Principal Investigator (5% effort)	8/1/02- 7/31/05	\$70,891 YR1 DC \$104,209 YR1 TC \$215,673 TDC \$317,037 TC
Do Integrins and the Associated Kinase FAK Mediate Mineralization? 1 RO3 DE14269-01	Co-Principal Investigator (10% effort)	3/1/02- 2/28/04	\$73,500

Do Integrin-Extracellular Matrix Interactions Mediate Osteoporosis? P60 DE13076	Co-Investigator (5% effort)	8/1/00- 7/31/03	\$71,000
Does Osteoporosis Alter Bone Cell Responses to Strain? PI: Richard Brand National Institute on Aging, NIH 1 RO3 AG15197-01	Co-Principal Investigator	9/1/97- 8/31-99	\$47,617
Quantitative RT-PCR for Non-Collagenous mRNA of Bone. NIDR/NIH Grant 1 RO3 DE11170-01A1	Principal Investigator	6/1/95- 5/30/97	\$71,282
Nicotine Effects on an Osteoblastic Mineralization Model. Clinical Center for Oral Health Research NIH/NIDR P30 DE100126 Jim Wefel, Center PI and Program Director	Principal Investigator (Project Director)	10/94- 9/95	\$10,000
Effects of TGF-Beta in 3-Dimensional Collagen Gels. NIH P30 DE1001126 Jim Wefel, CCOHR Program Director	Principal Investigator (Project Director)	4/96- 9/96	\$8,000

State

<u>Illinois Division of Specialized Care for Children (DSCC) for enhanced direct patient care.</u>	<u>Principal Investigator</u>	<u>USD \$1,712,000 DC Funded (4/2016) 4/2016-5/2017</u>

University:

“The Iowa Dental Surgical Simulator Educational Innovation Moving from Proof-of-Concept to Reality”	Co-PI Dr. Geb Thomas, PI College of Engineering (5% contributed effort)	12/1/01- 11/30/02	\$38,000
Biosciences Initiative Grant: Anti-Adhesive Proteins and Cellular Adaptions to Mechanical Strain	Principal Investigator	1/13/97- 2/1/98	\$50,000
Central Investment Fund for Research Enhancement CIFER Grant award for RT-PCR Detection of mRNA	Principal Investigator	3/11/93	\$8,765

College of Dentistry:

Department of Prosthodontics, Faculty Development Award	Research Coordinator	7/1/95	\$10,000
Development of an RT-PCR Approach for Evaluation of Non-Collagenous Proteins. Collegiate Faculty Research Funds (BRSR PHS-NCRR Grant 2 S07 R05313-31)		12/1/94-9/30/94	\$15,000

Other (Foundation/Industrial):

Preferred Development Partnership Agreement (PDPA) with the University of Illinois at Chicago (UIC) Dentsply IH AB Mölndal Sweden	Principal Investigator	7/1/2016-6/30/2021	\$1,675,000 (TC)
(Wefel) Procter & Gamble Company. Development of an In-Situ Model for Occlusal Caries		6/22/07-6/21/13	0.24 cal. mo. \$150,000 total
Preferred Development Partner Agreement (PDPA) Astra Tech (Mölndal, Sweden) Effective 10/2011, now Dentsply IH	Principal Investigator (25% effort)	3/1/07-2/28-15	FY1-FY5 DC-YR1: \$421,221 TC YR1: \$526,526 DC (FY1-5): \$2,072,568 TC: (FY1-5) \$2,590,709 Supplemental Award FY6-FY8 (9/26/2011) DC \$1,324,029 TC \$1,655,037 Total Award FY1-FY8 DC \$3,396,597 TC \$4,245,746
Ivoclar Vivadent, Inc. Outcome Evaluation of All Ceramic Crowns with a Self-Adhesive Cement	Principal Investigator	9/3/09-6/30/13	\$61,065 Total
National Foundation for Ectodermal Dysplasias. Oral Health Related Quality of Life in Children Affected by Ectodermal Dysplasias	Principal Investigator	4/1/08-3/31/10	\$17,500

Effects of Implant Surface Microtopographies on Osteoblast Differentiation (SGA284/2009) ITI Foundation (Basel, Switzerland)	Principal Investigator (10% effort)	6/1/03-5/30/05	\$128,000
Prosthetic Outcomes and Sensitivity Trial of All Ceramic Crowns. Ivoclar Vivadent	Principal Investigator (10% paid effort)	8/1/03-9/07	\$83,069
Phase I: Animal Evaluation of Fluoride Releasing Implant Surfaces. Astra Tech AB, Mölndal, Sweden	Principal Investigator (10% paid effort)	11/04-11/07	(\$141,752 DC / \$177,190 TC)
Phase II: Clinical Evaluation of Loaded Dental Implants having a Fluoride Releasing Surface. Astra Tech AB, Mölndal Sweden	Principal Investigator (15% paid effort)	11/06-12/31/08	\$169,538
Implant Stability, Marginal Bone Adaption and Survival Rate of Astra Tech Fixture Osseospeed in Patients with Posterior Maxillary Tooth Loss in an Early Loading Protocol. Astra Tech AB. YA-OSS-0001	Principal Investigator (10% paid effort)	9/1/03-8/31/11	\$283,812
Implant Interfacial Load Transfer in Type IV Bone. Astra Tech AB. YA-MMF-0003	Principal Investigator (10% paid effort)	10/1/98-12/31/09	\$420,000
Evaluation of Dentifrice Components In Situ. PG-9, Procter and Gamble	Co-PI (10% paid effort)	3/1/01-3/1/02	\$134,500
Does Implant Surface Roughness Alter the Regulation of Bone Differentiation? ITI Foundation, Basil, Switzerland SGA	Principal Investigator (20% contributed effort)	7/01-6/02	\$37,500
Field Trial on SLA Tapered Immediately Placement Dental Implants. Straumann AG, Basil, Switzerland	Principal Investigator (5% admin effort)	4/1/02-3/31/07	\$24,000
Estrogen and Mechanical Signaling of Bone Cells. Roy J. Carver Charitable Trust	Principal Investigator (15% contributed effort)	9/1/98-11/15/02	\$154,632
Iowa Multidisciplinary Clinical Research Center. Roy J. Carver Charitable Trust	Principal Investigator	3/00-2/01	\$124,000
Evaluation of Mucosal Sensitivity of Dental Casting Alloys. Talladium Corp.	Principal Investigator	9/98-3/99	\$7,764

Recall Evaluation of PROCERA Implant Bridges in Edentulous Mandibles. Nobel Biocare AB.	Principal Investigator	9/2/97-3/30/00	\$22,000
In Vivo Buccal Appliance and Sonic Brush. Optiva Corp., Bellevue, WA	Principal Investigator	12/1/95-5/30/97	\$16,841
Osteoblast Phenotypic Responses to HA as a function of Crystallinity. Implant Dentistry Research and Education Foundation	Principal Investigator	4/1/95-3/30/96	\$20,000
Evaluation of the Sonicare Sonic Toothbrush's In Vitro Efficacy on Human Derived Supragingival Plaque Samples, Phase I. Optiva Corp.	Principal Investigator	6/15/94-8/15/94	\$7,458
Clinical Evaluation of the Sonicare Toothbrush's In Vitro Efficacy on Human Derived Supragingival Plaque Samples, Phase II. Optiva Corp.	Principal Investigator	8/15/94-4/95	\$38,684

XII. Bibliography (attach sections in the following order, with authors in sequence; most recent first; list work that is published or "in press". Submitted work may also be listed; include journal title and date of submission; manuscripts in progress should not be included)

1. **Books and/or Chapters (03/2016: 22 Chapters/books; 16 first author):**

Stanford CM. The Implant Restoration in the Growing Patient. Chapter 16, in: **Evidence-based Implant Dentistry: Treatment Planning and Restoration Protocols**. S. Sadowsky (editor), Wiley publishing (2016).

Stanford CM. Osseointegration and the biology of Peri-implant Hard and Soft Tissues. Chapter 1 in: **The Aesthetic Dental Implant**. Dwayne Karateew (editor), Springer (2016).

Stanford CM, Schupbach P, Munoz-Viveroz C. Dental Implant Systems, Materials, Surfaces and the Role of the Wound Healing Cascade. Implant Dentistry e-book entitled, *Single Implants and Their Restoration*. Foundation for Oral Rehabilitation. Fall 2014.

Stanford CM. Syndromic Hypodontia and Oligodontia – Ectodermal Dysplasias. In: **Craniofacial and Dental Developmental Defects – Diagnosis and Management**. J.T. Wright. (editor). Springer 2015.

Stanford CM. Role of Implant-Implant and Tooth-Implant Supported Fixed Partial Dentures. In: **Clinical Periodontology and Implant Dentistry**. Chapter XX in 6th Edition. Jan Lindhe, Thorkild Karring and Niklaus Lang (editors), Blackwell (pending publication date, expect 2014).

Ko, YJ., Stanford CM, Cooper L. Complications Related to Implant-Supported Restorations. In: **Clinical Periodontology and Implant Dentistry**. Chapter XX in 6th Edition. Jan Lindhe, Thorkild Karring and Niklaus Lang (editors), Blackwell (pending publication date, expected 2014).

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- Herford AS., Stoffella E., Stanford CM. Bone Grafts and Bone Substitute Materials. Chapter 4, IN: A Clinical Guide for Single Implants and Its Restoration. Elsevier (2013).
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5. **Invited External Presentations and Lectures:**

Digital Workflow, Restorative and Digital Solutions. Santarelli Study Club, University of Wisconsin Parkside campus, December 14, 2016, Kenosha, WI.

Creative Implant Solutions for the Challenging Patient. North Suburban Branch Meeting, Chicago Dental Society, December 6, 2016, Highland Park IL.

Management of Missing Teeth in the Transitional Adult. Dental Arts Club (Polish Dentists Association), November 29, 2016, Chicago Illinois.

Evolution of Dental Implant Design. Academy Osseointegration Spanish Charter Chapter Meeting, November 5, 2016, Barcelona Spain.

Advances in management of patient with advanced bone loss. DenTech China 2016 Convention, October 26, 2016, Shanghai, P.R. China

Management of the Edentulous Patient. Fourth Military Medical University, School of Stomatology, October 25, 2016 Xi'an, P.R. China.

Evolution of Dental Implant Therapy in Complex Patient Care Planning. Guanghua School of Stomatology, Sun Yat-Sen University. October 21, 2016, Guangzhou P.R. China.

Evolution of Dental Implant Therapy in Complex Patient Care Planning. Nanjing Medical University, October 19, 2016, Nanjing P.R. China

Oral Health Management of Patients with various forms of craniofacial anomalies. Odontographic Society of Chicago. September 29, 2016

Oral Health Management of Patients with various forms of craniofacial anomalies. Annual Midwest Seminar of Dental Medicine, Lake Lawn Resort, Delavan, Wisconsin. September 20, 2016

Evolution of Implant Therapy in Complex Patient Care Planning: Combining the best of conventional approaches in an interdisciplinary manner. September 14, 2016, Canadian Academy of Endodontics. Winnipeg, Canada.

Carlos Salinas Symposium, Developmental Disorders of the Dentition: Abnormalities of Tooth Numbers (NIDCR: 1R13DEO25171) held at the iADH/SCDA meeting, Lecture title: Dental Implants in Ectodermal Dysplasia: Lessons learned and present Guidelines. Chicago IL April 15, 2016.

“Championing the Health of the Whole Person and Communities where People Live: Applications to Interprofessional Education.” Northwestern Feinberg School of Medicine, PH449 Course, April 27, 2016.

Dental Implants in Ectodermal Dysplasias: Lessons learned and present Guidelines. Dr. Carlos Salinas Memorial Symposium – Developmental Disorders of the Dentition: Abnormalities of Tooth Numbers. An NIH R-13 Symposium, April 16, 2016, Chicago IL in conjunction with Special Care Dentistry Association and the International Association for Disabilities and Oral Health (iADH) meeting, April 14-17, 2016.

“Championing the Health of the Whole Person and Communities where People Live” Health & Medicine Policy Research Group, Chicago Schweitzer Keynote talk. Northwestern University, Chicago Illinois, April 12, 2016.

“Integrating Predictable Esthetics into Clinical Practice.” Wisconsin Society of Periodontology, Wauwatosa, WI, all day presentation, 50 participants, Friday April 8, 2016

Challenges in managing oligodontia in the growing patient. The University of San Paulo School of Dentistry, Ribeirao Preto Brazil, April 5, 2016.

ADEA, *“Implant Education Needs to Meet Generalist Care in Today’s World,”* invited talk by the ADEA Special Interest Group on Implant Dentistry, Denver, March 14, 2016.

Oral Health Management of Patients Presenting with various forms of Ectodermal Dysplasia. Dammam University College of Dentistry, Dammam, Kingdom of Saudi Arabia, February 8, 2016

Interdisciplinary Care Using Oral Implant Therapy. 2016 Yankee Dental Congress, Session 675SL, Boston MA., January 29, 2016.

The University of Southern California’s Comprehensive Surgical and Restorative Implant Training Program: Implant Therapy for the Edentulous Patients. Title: *Prosthetic Considerations in the treatment of the Edentulous Patient.* USC Herman Ostrow School of Dentistry, Sunday 12/13/2015

Chicago Academy Dental Research, *“Patient oriented risk factors, changes in health care, dentistry and our place in this battlefield for the future of Chicago.”* Tuesday 11/24/2015.

Malmo University: Thesis defense examiner and opponent to Francesca Cecchinato Ph.D. Defense, Malmo University 11/20/2015, "*One Characterization of Magnesium Alloys for Oral & Maxillofacial Applications.*"

The University of Toronto, Canada. George Zarb Lectureship. 10/21/2015. "*Concepts of Health, Oral Health and the Value Proposition for Tooth Replacement Therapies.* Toronto, Canada.

Kankakee District Dental Society, 10/14/2015 "*UIC Dental School Update.*"

Society for Color and Appearance in Dentistry (SCAD), 9/24-26, 2015/ 9/26/2015 presentation entitled, "*Integrating Predictable Esthetics into Clinical Practice*"; Chicago Illinois.

National Foundation for Ectodermal Dysplasias, regional conference. Interprofessional Approaches to the Management of the Ectodermal Dysplasias. Talk on 9/18/15, "*Oral Health Management of patients presenting with various forms of Ectodermal Dysplasia.*" UIC College of Dentistry Grand Rounds, The University of Illinois at Chicago, College of Dentistry.

Wheaton Dental Society, Continuing Education Course. Wheaton, Illinois. 9/15/2015. Title: "*Oral Health Management of Patients presenting with various forms of Ectodermal Dysplasia.*"

National Institutes of Health (NIH). "*Management the oral health issues in individuals affected with ectodermal dysplasia*". 9/8/2015, NIH Campus, Building 40, NIH Ectodermal Dysplasia Workshop.

Dentsply Implant Taiwan Symposium, Presentation, *Integrating Predictable Esthetics into Clinical Practice*, August 29-30, 2015.

Association of Dental Implantology (ADI) Meeting, "*Interplay of Surgical and Prosthetic Procedures relative to Implant designs for Enhanced Predictability of Care.*" Glasgow Scotland, May 2015

Chicago Dental Society, 150th Annual Meeting (2/26/2015, Keynote Speaker). Two, three hours talks: "Integrating Predictable Esthetics into Clinical Practice" and "The Young Patient presents with missing teeth, what do you do? Thursday, February 16, 2015.

Academy of Osseointegration, Pain podium presentation, "Management Strategies for the Edentulous Maxilla – Outcomes of the AO 2014 Summit, Friday March 13, 2015

Bangkok International Symposium for Implant Dentistry. "*Evolution of Dental Implant Therapy – Combining the best of procedures, devices and patient care*". Bangkok, Thailand. 2/9/2015

Yankee Dental Congress, Oral Implant Challenges and Solutions in the Management of the Edentulous Maxilla. Session 677SL, 1/31/2015.

"Integrating Predictable Esthetics into Clinical Practice." Greater New York Dental Meeting, December 2, 2013.

"Missing Teeth and the Young Patient: what do you do?" Greater New York Dental Meeting, December 2, 2013.

“Biomechanical Considerations for Implants” in the session, “Optimizing Implant Therapy – State of the Art” Jan Lindhe Satellite Symposium in China. Peking University School of Stomatology and Goteborg University, Beijing, China. October 27, 2013.

“Implantologicum Convivium – Synergies for Success: Design and Microstructures” Bologna, Italy October 12, 2013.

“Advanced Care Strategies for Patients with Congenital Oligodontia” Int College of Prosthodontist (ICP) annual meeting, Turin, Italy. September 19, 2013.

“Health Technology Assessment and the Role in Evaluating Complex Rehabilitation of Congenital Anomalies.” Oral Rehabilitation Outcomes Network (ORONet) meeting, Turku, Finland, September 17, 2013.

“Integrating Predictable Esthetics into Clinical Practice.” Osseointegration Study Club of Japan (OJ), Tokyo, Japan. July 7, 2013.

“Management of the Ectodermal Dysplasias”, Osaka University School of Dentistry., Osaka Japan. July 8, 2013.

“The Young Adult Patient Presents with Missing Teeth, what do you do? John J. Johnston Society. University of Indiana, Indianapolis, IN. June 14, 2013.

“The Dental Implant – What are the “Right” Implants for Today’s Indications” Main Podium Opening Session, Academy of Osseointegration Tampa FL., March 7-9, 2013.

“Expanding the potential for Oral Implant Therapy.” AO Sponsored Symposium held at the Yankee Dental Congress. Boston, MA. February 2, 2013.

“The Fundamentals of Evidence-based Dentistry.” IJP/PKU Workshop for Young Prosthodontic Educators. Peking University School of Stomatology, Beijing, China. December 4-7, 2012.

“Generations of Smiles: From Adolescence to the Elderly” American College of Prosthodontist 42nd Annual Session, Baltimore Maryland., October 31-November 3, 2012.

“Evolution of the Astra Tech Dental Implant System” EAO Annual Session, Copenhagen, October 11-13, 2012.

“On Planning a Well-Conducted Clinical Research Study” Presentation and faculty workshop, facilitator, ICP/Karlsruhe Workshop IV, Baden-Baden, Germany, June 7-10, 2012.

“The Young Adult Patient Presenting with Oligodontia: diagnostic and management strategies.” 5th International Conference on Ectodermal Dysplasia ED2012 Congress, June 1-3, 2012, University of Erlangen, Erlangen, Germany

“Pathways to Success – The Role that Prosthodontists Can Play in the Emerging Areas of Translational Sciences” Academy of Prosthodontics 94th Annual Session, May 17, 2012, Jackson Hole WY.

“Evolution of Astra Tech Dental Implant System.” Key note talk, 3rd Astra Tech World Congress, Gothenburg, Sweden, May 9-12, 2012.

“Understanding the Possibilities” a part of the “Best in Dentistry” program keynote for opening of University of North Carolina’s new Research Building., Chapel Hill NC., April 28, 2012.

“Strategies Using Ceramic Restorations in Management of the Young Adult Patient.” American Academy of Fixed Prosthodontics (AAFP), Annual Session, Chicago IL., February 24-25, 2012.

“New Technologies in Implant Prosthesis: where are we?” XX Internal SIO Congress, Dall’evidenza scientifica alla Qualita’ Clinica (From Evidence based dentistry to high clinical performances)., January 27-28, 012, MICO Fair Convention Center, Milan Italy.

“The Influence of Patient Diagnostics, Evaluation and Treatment Planning for Creating Successful Results in Implant Rehabilitation. Antalya, Turkey November 24-27, 2011.

Two Keynote talks, (1) Role of Modern Implant Surfaces on outcomes and (2), Role of Implant Dimensions on outcomes., Australasian Osseointegration Society (AOS), 8th Biennial Conference, Adelaide Convention Center, South Australia, November 9-12, 2011,

“Management of the Ectodermal Dysplasia Patient” 59th Meeting of the American Academy of Maxillofacial Prosthetics, Scottsdale, AZ, October 29-November 1, 2011.

“Current Topics in Implant Dentistry” University of Southern California Comprehensive Surgical and Restorative Implant Training Program, Taiwan/Korea., October 2, 2011.

“Implant Suprastructure” Ivoclar Vivadent., Scientific Meeting 2011: Implant Suprastructure, July 7-8, 2011. Schaan, Lichtenstein.

“The Young Patient Presents with Missing Teeth: What do you do?” Pacific Coast Society for Prosthodontics, 76th Annual Session, Pasadena, CA., June 22-25, 2011

Invited Keynote- “Integrating Predictable Esthetics” 60th Anniversary of Lebanese University and 12th Lebanese University Dental Meeting, Rafic Hariri Campus, Beirut, Lebanon, June 2-4, 2011.

“Understanding the Possibilities – Strategies for Predictable Prosthetic Designs” Paul Fugazzotto’ s Study Club, Boston MA., May 20, 2011

“Understanding the Possibilities – Strategies for Predictable Prosthetic Designs”, Hong Kong PRC., Seoul South Korea., Singapore., Bangkok Thailand, May 12-19, 2011

7th Annual Jesse T. Bullard Lectureship in Prosthodontics. Texas A&M., Health Science Center, Baylor College of Dentistry, Dallas, TX., April 30, 2011.

“Integrating the Process for Predictable Aesthetics into Clinical Practice.” ADI Team Congress- Association for Dental Implantology UK (ADI), Manchester UK., April 14-15, 2011.

“Understanding the Possibilities – Strategies for Predictable Prosthetic Designs” Salem Oral and Maxillofacial Surgery. Salem NC., April 1, 2011.

“Basic Protocols in Plant Surgery and Restoration.” University of Southern California (USC), Continuum Course, February 24-27, 2011, Los Angeles, CA.

“Integrating Predictable Esthetics into Clinical Practice - Part I.” 36th Annual USC Int. Periodontal and Implant Symposium, Los Angeles, CA., January 29, 2011.

“Integrating Predictable Esthetics into Clinical Practice - Part II.” 36th Annual USC Int. Periodontal and Implant Symposium, Los Angeles, CA., January 29, 2011.

“Integrating Predictable Esthetics into Clinical Practice” November 26, 2010, Paris France ADF Meeting.

“Bridging the River, the role of Translational Research in Dental Implant Therapy” Dean’s Lecture. Stonybrook, School of Dental Medicine, Wednesday October 27, 2010.

“Implant Therapy as a part of the continuum of care” Great River Oral and Maxillofacial Surgery, Dubuque, Iowa October 12, 2010.

“Rehabilitation of the Ectodermal Patient” American College of Prosthodontists (ACP Annual Session, Main Podium), Orlando FL. Thursday November 4, 2010.

“Understanding the Advantages and Challenges of Implant Therapy as a Part of Continuum of Care.” Canadian Academy of Endodontics, Westin Bear Mountain, Victoria, Canada. 9/22-9/25, 2010

“Implant Overview” Harvard University School of Dentistry, July 29, 2010

“Immediate Temporization” and “Abutment Variables Influencing Esthetic Outcomes” Gothenburg, Sweden, May 21, 2010.

“Astra Tech 25th Year Celebration” Montreal, Canada, May 1, 2010

“Pacific Dental Conference” April 15-17, 2010, Vancouver, CA,

“Surgical Implant Placement – Immediate Loading versus Staged Loading in the Esthetic Zone” Academy of Osseointegration, main podium, March 4, 2010.

“NYU Implant Continuum Course” March 21, 2010

“The Challenges in Managing Hypodontia,” Amer Acad Fixed Prosthodontics February 27, 2010.

“Basic Protocols in Implant Dentistry,” USC Continuum Course. February 20, 2010.

“State of the Art on Implant Therapy,” NYU. February 10, 2010

“Cruise and Learn” January 28-February 1, 2010, a combined U Buffalo, Marquette, UIowa, OSU and UPitt CE Course. Total CE lectured was 9 hours.

“Enhancing the Bone-Implant Interface.” International College of Prosthodontists. Cape Town South Africa. 9/11/2009

Frontiers in Research Lecture – “Bridging the River, the use of translational approaches to engage clinicians and basic scientists in research.” University of Pacific. March 11, 2009.

“State of the Art: Predictable and Esthetics in Restoring Dental Implants.” Quintessence 60th Anniversary Meeting, Berlin Germany January 23, 2009.

“The Single Implant Crown in the Esthetic Zone: The use of New Ceramics vs. Traditional Crown Materials.” AAOMS Dental Implant Conference, Chicago. Friday December 5, 2008.

“Implant Outcomes, Complications and Approaches to Managing these” American Association of Endodontists Meeting, San Francisco CA., November 8, 2008.

“Digital Dentistry; enhanced predictors for success.” EAO Annual Meeting, Warsaw, Poland October 2008.

“Predictable Outcomes of Implant Therapy” Loma Linda University, September 21, 2008.

“Concepts in Implant Dentistry Critical to Predictable Outcomes for our patients.” Institute of Odontology, 2nd annual meeting, Osaka, Japan, July 8, 2008.

“Esthetics in Dental and Maxillofacial patients with birth defects.” FIBLL Congress, Bilbao, Spain June 23, 2008.

“Implant Therapy in patients with compromised bone structure.” Canadian Association of Oral Maxillofacial Surgeons. May 28, 2008 Newfoundland,

“Risk Factor Assessment of Prosthodontic Patients.” Academy of Prosthodontics, Houston May 15, 2008.

“Integration of Biological Principles to Achieve Stable Esthetics.” The Toronto Osseointegration Conference Revisited, May 10, 2008, Toronto, Canada.

“Tooth Replacement Therapy for Patients with Compromised Bone Quality and/or Quantity – the role of implant technologies assisting predictable outcomes.” Thaddeus V. Weclaw Memorial Lecture, Friday April 25, 2008, University of Illinois at Chicago College of Dentistry.

“Implant Body Designs: Micro Designs” Academy of Osseointegration Podium Presentation, 23rd Annual Meeting, Boston, Thursday February 28, 2008.

“Bridging the river, the use of translational approaches to engage clinicians and basic scientists in nanotechnology research. Keynote talk, 24th annual Research Day, Colorado Section of the AADR, Anschutz Medical Campus, University of Colorado, Aurora, CO February 20, 2008.

“State of the Art – Predictability and Esthetics in Restoring Dental Implants “ The Implant Forum of Virginia, Glen Allen, VA, February 15, 2008

“State of the Art – Predictability and Esthetics in Restoring Dental Implants.” Triple Win Study Club, Miami, FL February 8, 2008.

“Biomangement Complex – evidence based support for implant success” Swedental Congress, Svenska Mässan, Göteborg, Sweden, November 10, 2007.

“What is the role of crestal and transmucosal implant/abutment architecture?” Congrès International d’Implantologie, Centre de Congrès, Aix en Provence, France, October 11, 2007.

“Biology, Mechanics and Clinical Experience Supporting the BioManagement Complex” 3rd Annual Congress of Asian Academy of Osseointegration- Implant Dentistry in 21st Century. Taipei, Taiwan, October 5, 2007.

“Dental Implants, Where are we today and tomorrow?” Faculty of Dental Surgery, Royal College of Surgeons Symposium entitled, “Dental Implants for all – how, when and where?” London June 15, 2007.

“Advanced Implant Restorations” USC Implant Continuum Course, Los Angeles CA. June 1-3, 2007

“Osseoprotection” at the Int. Symposium Osteology Monaco, May 10-12, 2007, Monte Carlo, Monaco.

“Why do we need to teach clinical decision making to dental students.” Hands on Workshop, IADR meeting, New Orleans, March 21, 2007, Paper #1

“Background and Update on the Emerging ADA Evaluation Program for Professional Products” IADR Symposium, Status of Laboratory Studies for Predicting Clinical Behavior. IADR meeting, New Orleans, March 21, 2007, Paper #6.

“Multicenter Clinical Evaluation (FOCUS) of a fluoride modified dental implant. IADR meeting, New Orleans, March 21, 2007, Paper #50.

“Single Tooth vs. FPD Outcomes” Conclusions of the SSID AO Consensus Conference, AO Annual Session, San Antonio, Texas, March 8, 2007.

“The role of Occlusion in the outcomes of dental implant therapy” Halton-Peel Dental Society, Mississauga, Ontario, Canada, March 2, 2007.

“State of the Art: Predictability and Esthetics in Restoring Dental Implants” University of Toronto Continuing Education Continuum, Toronto, Canada, March 3, 2007.

“The Bearing of Fruits from Translational Research” presented at the American Academy of Fixed Prosthodontics 56th annual Session, Chicago, IL., February 23, 2007.

“Osseoprotection: Clinical lessons learned from the use of a fluoridated dental implant system.” World Congress of Osseointegration. Venice, Italy, February 16, 2007.

“Biomangement Complex” Saudi Dental Society Meeting, Riyadh, Saudi Arabia, January 31, 2007.

“The Mainstreaming of Dental Implants into General Practice.” ACP/Georgia Tech DENTEC Center Symposium, January 18-20, 2007

Comprehensive Continuing Education Course (Continuum) for Oral Surgery Associates in Waukesha, Wisconsin. A four session course over one year.

January 17, 2007: Implant therapy overview, 6 hour CE presentation

March 13, 2007: Implant Treatment Planning, all day CE course
June 20, 2007 Prosthetic hands-on course, all day CE course
October 17, 2007 Patient outcomes and maintenance of implant patients, 6 hour CE course.

“Designing an International Multicenter trial for Effectiveness of Care”, University of North Carolina,
“The Scope of Prosthodontics Research” January 11-12, 2007.

“Predictable Outcomes in Implant Therapy – Based on Biological Principals.” December 10, 2006
University of Southern California (USC)

“Clinical Application of Prosthetic Phase of Implant Therapy.” South Asian Dental Association, Payal
Banquet, Mississauga, ON Canada, October 26, 2006

“The Combination of Biology, Mechanics and Clinical Experience.” European Academy of
Osseointegration (EAO) annual session, October 4, 2006, Zurich, Switzerland.

“State of the Art: Predictability and Esthetics in Restoring Dental Implants.” Canadian Academy of
Restorative Dentistry and Prosthodontics. Halifax, NS September 29, 2006.

“Implant Surface vs. Cell Activity. » Symposium Keynote presentation at the 36th Academic
Conference of the Japanese Society of Oral Implantology. September 16, 2006 Niigata, Japan,

Overview on the Astra Tech System at the “Ambulatory Oral and Maxillofacial Surgery July 3-7, 2006”,
Maui Resort and Spa. Sponsored by UCLA.

“The use of Implants in Special Needs Patients.” IADR Science Transfer Program, Friday June 30-July
1, 2006 Brisbane Australia.

“Evolution of Implant Abutment Design: the Esthetic Choice is Here.” AO Annual Meeting, March
16th, 2006, Seattle, WA.

“State of the Art: Predictability and Esthetics in Restoring Dental Implants.” Waterloo District County
Dental Society, Waterloo, Iowa. All day CE Course, 300 attendees, March 2, 2006.

“Preparing for the Future in Dentistry” Des Moines, Iowa January 10, 2006. 30 attendees, 2 hour
presentation.

“Predictable Outcomes in Implant Dentistry based on Biological Principles” University of Southern
California (USC), Los Angeles, CA 12/9-11, 2005.

“State of the Art in Implant Dentistry” CE Course, Latham, NY 12/2/2005.

“The Establishment and Maintenance of a Loaded Biologically interface.” ACP Board Review Course,
November 18, 2005, Chicago, IL.

“State of the Art in Implant Dentistry”, Mini-residency Course, Olympia, WA, October 21, 2005.
“Chemically Modified OsseoSpeed Implants Provide Greater Confidence and Safety for Early and
Immediate Load of Compromised Cases. Invited Speaker, American Academy of Periodontology annual
meeting, Denver, CO., 9/24/2005.

“Tissue Engineering and Implant Surface Technologies” University of Michigan, Ann Arbor, September 22, 2005.

“Reconstructive Management Strategies for Adolescents and Young Adults with variable forms of Ectodermal Dysplasias.” Iowa Section of the American Association for Dentistry for Children, Lake Okoboji, Iowa, August 5-6, 2005. 50 attendees.

“State of the Art in Implant Dentistry” a CE course sponsored by Dr. Marco Padilla, Las Vegas, NV., July 8, 2005.

“Clinical Application of Prosthetic Treatment Planning and Restorative Components” Sponsored CE course by Dr. Robert Margeas’s Center for Advanced Dental Education, Des Moines, Iowa June 8, 2005.

“Reconstructive Management Strategies for Adolescents and Young Adults with variable forms of Ectodermal Dysplasias.” International College of Prosthodontists (ICP) annual meeting, May 28, 2005, Crete, Greece.

“Clinical Implications from Guided Osteoblast Behaviour and Improved Bone Formation.” Italian Dental Association Meeting, Rome, Italy March 18, 2005.

“Clinical Outcomes of Early Loading Protocol in Posterior Maxilla” Academy of Osseointegration (AO) annual meeting, Orlando FL., March 10, 2005.

“Occlusal Loading and the Behavior of Bone around Dental Implants: a model for understanding the dynamics of the oral craniofacial complex.” 50th annual meeting, American Equilibration Society, Chicago IL Tuesday February 22, 2005.

“Diagnostic and Treatment Issues in Addressing the Re-Restored Dentition (“Redo-Odontics”).” Greater New York Academy of Prosthodontics, New York City, NY December 3, 2004.

“The Establishment and Maintenance of a Loaded Biologically interface.” ACP Board Review Course, November 19, 2004, Chicago, IL.

“Emerging mega-trends in Prosthodontics, the changing role of implant Prosthodontic Therapy” American College of Prosthodontists (ACP) annual meeting, Ottawa, Canada, Thursday October 28, 2004.

“Advanced Prosthetic implant reconstruction approaches” Palo Altos, CA., October 14, 2004.

“Overview of the role of implant therapy in practice” Portland Residency Program, Portland Oregon, October 13, 2004.

“Access to Care Issues for the affected patient with Ectodermal Dysplasia” NFED Consensus Conference, St Louis, MO October 8-10, 2004.

“Treatment options for the Ectodermal Dysplasia Patient” St Louis University, MO., Friday October 8, 2004.

“Advances in Implant Surface Technologies” American Association of Oral and Maxillofacial Surgery (AAOMS) annual meeting, San Francisco, CA, Friday October 1, 2004.

“Clinical trial outcomes report on FOCUS multicenter trial.” European Academy of Osseointegration (EAO) annual meeting, Paris, France, September 15, 2004.

“Advances in implant utilization in immediate extraction sites.” Astra Tech User’s Conference, Lake Tahoe, CA., September 9, 2004.

“Diagnosis, Treatment and Management of the oral craniofacial conditions associated with variant forms of the Ectodermal Dysplasias. Annual conference of the National Foundation for Ectodermal Dysplasias (NFED), July 15-17, 2004.

“Management of Implant Prosthetic Complications” Dr. Rick Yamada’s Study Club, San Diego, CA, June 30, 2004.

“Advances in Implant Surface Technologies” Scandinavian Association of Oral Maxillofacial Surgery annual meeting, Gotland Island, Sweden, Saturday June 19, 2004.

External Examiner of the Postdoctoral Program University of Malaya, May 8-18, 2004.

“Predictable and Profitable Implant Restorations by Design.” Denver Implant Study Club (Host: Dr. Aldo Leopardi), Denver CO., 130 participants, April 15, 2004.

“State of the art” Predictability and Esthetics in Restoring Dental Implants” Rancho Mirage CA (Dr. Peter Scheer), 60 participants, April 14, 2004.

“Restoring Function, Esthetics and Stability: The tripod of Modern Implant Dentistry. Academy of Osseointegration Annual Session March 20, 2004. podium presentation, San Francisco, 300 participants.

"State of the Art: Predictability and Esthetics in Restoring Dental Implants" Academy of Osseointegration Annual Session March 18, 2004. San Francisco, 300 participants.

Stanford C, Strandkvist T, Hallstrom H, Burton R, Schneider R, Fridrich K, Smith R, Asplund P. Two year implant survival in edentulous maxillas with poor bone. Oral Presentation, 2004 IADR Meeting, Honolulu, Hawaii, March 12, 2004.

“Implant loading and Occlusion” World Congress Oral Implantology WCOI 6.0 and IADR Joint Symposium. March 8, 2004, 100 Participants.

“Implant Biomechanics: key to implant success” 29th Annual University Southern California (USC) Periodontics and Implant Symposium. Organizer: Dr. Homa Zadeh., January 31, 2004 followed by a “lunch and learning” small group discussion.

“Implant Biomechanics” California Osseointegration Study Club. Torrance CA., Host: Dr. Roy Yanase January 29, 2004, 80 participants.

“Implant Complications” Houston Implant Study Club, Host: Dr. Jim Peoples., January 20, 2004., 30 participants.

“Implant Dentistry, laboratory aspects to fabricating immediate load prosthesis.” Milwaukee Dental Laboratory Study Club. 15 participants, Thursday December 11, 2003.

“Comprehensive Treatment Planning Issues” All day lecture to the Department of Prosthodontics, Marquette University School of Dentistry, Friday December 12, 2003., 25 faculty and residents.

“Implant design and treatment planning” Wednesday December 10, New Bedford MA. 85 participants.

“Implant Occlusion, does it matter?” American Association for Oral and Maxillofacial Surgery (AAOMS) Annual Implant Symposium., Saturday December 6, 2003, 700 participants.

“Prosthetic flexibility and esthetics assured though a mechanically stable design.” Astra Tech Inc., West Coast Users Conference., November 8, 2003, 300 participants.

Implant Surfaces, Biomechanics and Clinical Functionality: Keys to success in Implant Dentistry. Montreal Premiere Study Club., Host: Dr. Marvin Werbit., Montreal, Canada. November 14, 2003, 60 participants.

“Implant Treatment Planning in the anterior esthetic area” Southwest VA System in Dallas Texas, October 7, 2003, 10 participants.

“Emerging technologies for tissue engineering” lecture to the Department of Oral Maxillofacial Surgery at the Dallas Southwestern Hospital, October 8, 2003., 30 participants.

“Implant Biomechanics and Implant Dentistry” Houston Tx. Host: Dr. Jim Peoples., September 18-19, 2003. 15 participants.

“Diagnosis and Treatment of the Ectodermal Dysplasia Syndromes.” CE Course University of Medicine and Dentistry of New Jersey (UMDNJ) Wednesday July 16, 2003. Sponsored by the ADA Foundation and March of Dimes.

“The Physiological and Molecular Signaling that occurs with Cellular Mechanotransduction” 2003 IADR Symposium, Göteborg Sweden June 26, 2003.

“Fundamental Regulation at Implant Surfaces” 2003 IADR Symposium, Göteborg Sweden June 26, 2003.

“Issues in Prosthodontics” GV Black Study Club of Des Moines, April 28, 2003. 30 people, 7 CE Hours

Visiting Professorship, University of Malaya, Kuala Lumpur, Malaysia, April 8-April 16, 2003. During this time lectures were presented on: Implant Biomechanics, Ectodermal Dysplasia and the Prosthodontics for the growing child, Treatment of the wear patient, Mandibular Overdenture implant therapy. An all day continuing education course was presented Sunday April 13, 2003 at the Hotel Armada, Petaling Jaya, Malaysia. 60 people, 7 CE Hours.

“Role of Biomechanics in predictable tissue integration” 10th International Congress on Reconstructive Preprosthetic Surgery. April 5-7, 2003, Palm Spring, CA. 300 People, 1 CE hour.

“Understanding the role of dental implant design for predictable success.” In: Dr. Rick Yamada’s CE Program, “Improvement in Implant Techniques” Friday December 13, 2002. San Diego CA. 120 People, 4 CE Hours.

“The Continuing Evolution of Implant Dentistry: predictable and stable prosthetic restorations.” San Antonio TX Study Club, November 21, 2002 and Houston TX Study Club November 22, 2002. 45 and 60 people, 4 CE Hours

“Biologically Restoring Function, Esthetics and Stability: The Tripod of Modern Implant Dentistry.” American College of Prosthodontists Annual Session, November 6-9, 2002, Orlando FL. 100 people, 1 CE hour.

“Bone Quality and Quantity: are these relevant predictors of implant outcomes?” Presented at the University of Toronto Host Tissue/Implant Interface II Workshop. November 3-6, 2002. Toronto Canada. 120 people, 3 CE hours

“Prosthetic Options for Implant Dentistry.” Jacksonville FL CE Course, October 22, 2002. 60 people, 2 CE hours.

“Innovations to improve implant outcomes in soft bone situations.” Astra Tech National User’s Meeting. Vail CO. September 19-21, 2002. 200 people, 1 CE hour.

“The continuing evolution of implant dentistry: predictable and stable prosthetic restorations. Williamsburg, VA Regional Study Club. September 14, 2002. 120 people, 4 CE hours

“Basics of Implant treatment planning.” Temecula area Study Club, CA September 10, 2002. 80 People, 4 CE hours.

“Implant Treatment planning with the Astra Tech Dental Implant System” NOVA Southeastern University (NSU) Distance Learning Program in Implant Dentistry. August 16, 2002. 150 people, 4 CE hours.

“Dental Implants and the Ectodermal Dysplasia Patient” National Foundation for Ectodermal Dysplasias Family Conference, Salt Lake City, UT, July 18, 2002. 300 people, 3 CE hours.

“Dental Implants for General Practice” (all day talk) Scott Country Dental Society, May 24, 2002. 80 people, 7 CE hours.

“Clinical Trial Outcomes of the Micro/Macro Fixture design in Edentulous Maxillae (Type IV bone). 11th annual Astra Tech User’s Conference, Las Vegas, NV. May 31, 2002.

“Anterior Esthetics and the Astra Tech Dental Implant System” CE Course, Escondido, CA May 16, 2002.

“Innovations in the Astra Tech Implant System: simplicity, predictability and esthetics results.” Orange County Study Club. May 15, 2002.

“Anterior Maxillary Esthetics” CE Program, The Deerfield Inn, Western Mass. May 14, 2002.

11th annual International Symposium on Implantology. Boston University, Goldman School of Dentistry. May 14, 2002.

“Self Protection in the World of Implant Dentistry” New York Section of the American College of Prosthodontists. New York, NY. May 13, 2002.

“Towards and Understanding of the Implant body Biological Handshake.” 84th annual meeting of the Academy of Prosthodontics, Portland OR. Sunday May 5, 2002.

“Restoring the Dentition with Implants: a Team Approach.” Iowa Dental Association Annual Session, Des Moines, Iowa, May 4-6, 2002.

Biomedical Implant Surface Topography and its Effects on Osteoblast Differentiation, *in vitro*. Biointerface Conference. University of Oslo, NORWAY, April 9-13, 2002.

Predictable Implant restoration with good treatment planning. New England Implant Study Club. Mt. Snow Resort, March 22, 2002.

Predictability in Implant esthetics. Phoenix/Scottsdale Dental Society, January 10, 2002.

Innovations in Implant Design-impact on treatment planning. Las Vegas Institute (LVI) for Advanced Dental Studies. November 17, 2001.

“Esthetic evaluation and Implant Treatment planning in the anterior esthetic zone. San Diego, CA November 14-15, 2001.

“New Challenges in Implant Biomechanics” American College of Prosthodontists, New Orleans, November 1, 2001.

“Simplicity in Implant Treatment Planning” Chicago Implant Study Club. October 24th 2001

“Innovations in Implant Treatment for the Edentulous Arch” at the American Dental Association Meeting in 2001 Kansas City Meeting. Sponsored by the ADA Council on Scientific Affairs.

“Simplicity and Predictability in Implant Treatment Planning.” Orange County Osseointegration Study Club, October 9, 2001. Same presentation was then given at UCLA on October 10, 2001 to the Dept. of Oral Maxillofacial Surgery and Dept. of Advanced Prosthodontics.

“Understanding what is in front of us – evaluating our patients and implant systems in the modern world” The Arizona section of the ACP in Phoenix, AZ, September 9, 2001.

“Predictable Esthetics with Proper Implant Treatment Planning” San Diego Implant Study Club. June 7, 2001.

“Innovations in Implant Design” Dr. Carl Block Study Club and University of Virginia., Richmond VA., June 1, 2001.

Biomechanical Implant Design and Joint Stability. Dr. Steven Wheeler’s Study Club, San Diego, CA. May 29, 2001.

“Just what does a “p-value” mean anyway?” Presentation to the Santa Fe Academy of Prosthodontics Meeting, May 2001.

Surgical Treatment Planning for Implant Therapy. CE Course taught to the Scottsdale AZ Implant Study Club, April 12, 2001

“Simplicity and Predictability in Implant Therapy. CE Course taught to the Central Texas Veterans Healthcare Hospital System, Temple TX., February 16, 2001.

“Anatomy and Dental Implant Biomechanics” University of Florida (Gainesville) Dental Implant Comprehensive Training Course, September 1-3, 2000.

"Surface Topography and Osteoblast Responses" Eastman Centre, London, England, April 2000.

"Biomechanics of trabecular bone and implant outcomes" North American ITI Biannual meeting, February 2000.

"Evidence Based Assessment of Osseointegration and the Proliferation of Implant Systems." American College of Prosthodontic meeting, New York City, October 1999.

"When all Said and Done, Bone Responses Around Dental Implants" Astra Tech Inc, North American Conference, Vail, Colorado, October 1999.

"Implant Biomechanics and Treatment Outcomes of Care" All day presentation, California Osseointegration Study Club, January 1999.

“A Union in Space and Time: Towards and Understanding of Bone Modeling and Remodeling and the Role of Occlusion.” International Congress of Oral Implantologists, Dearborn MI, August 14, 1998.

“Lessons from the Trenches, model systems to understand bone related activities.” The Jane & Jerry Weintraub Center for Reconstructive Biotechnology Lecture, UCLA Center for Health Sciences, Los Angeles, CA., August 7, 1998.

“Towards an Understanding of Implant Occlusion and Strain Adaptive Bone Modeling and Remodeling.” Academy of Prosthodontics, Colorado Springs, CO., May 17, 1998.

“Understanding the Dynamic Changes at the Implant Interface.” Implant Symposium. American Association for Dental Research Meeting. Minneapolis MN., March 6, 1998.

“Dental and Orthopaedic Implants: Birds of the Same Feather?” Symposium on Failures of Dental Implants. International Association for Dental Research/American Association for Dental Research Meeting. Orlando, FL. March 20, 1997.

“Occlusion and Load Transfer in Implant Dentistry, An Evolutionary Perspective.” American Equilibration Society, Chicago, IL., February 19, 1997.

“Bone Modeling and Remodeling: A key to long-term Prosthodontic Success” American College of Prosthodontics Meeting, Kansas City, October 5, 1996.

“Biom mineralization” University of North Carolina, Chapel Hill, July 1995.

“Bone Cell Biology and Prosthodontics” University of Texas Health Science Center, San Antonio, TX, March 1995.

“Osteogenic Responses to Titanium Oxide Surfaces” Symposium Presentation made, IADR Meeting, Seattle, March 1994.

"Clinical Introduction of Dental Implant Use," Prosthodontic Indications and Failures of Implants" and "Clinical Comparison of Correct Implant Systems." National Defense Medical Center, Taipei, Taiwan, September 7-14, 1992.

6. Other: Exhibits, films, tapes, special presentations

Stanford C.M. Biomechanical and Functional Behavior of Implants. Oral Biology and Dental Implants 15th International Conference on Oral Biology (ICOB) June 30, 1998.

Stanford C.M., Solursh M. Keller J.C. Chondroitin Sulfate and Early Adhesion Events of Rat Calvarial Cells. IADR Meeting, Nice France June 27, 1998.

Stanford C.M. Understanding the Dynamic Changes at the Implant Interface. AADR Implant Symposium, Minneapolis MN., March 6, 1998.

Stanford, C., Holtman, K., Martin, J., Steven, J. and Midura, R. “Loss of BSP Expression Correlates with Loss of Biom mineralization.” IADR Meeting, San Francisco, March 1996.

Stanford, C.M., Jacobson, P., Eanes, D., Midura, R. “Increased UMR 106-01 BSP Mineralization Response With Elevated Calcium and Phosphate Concentration.” Combined North American and Japanese Orthopaedic Research Society Meeting, Nov., 1995.

“Rapidly Forming Apatitic Mineral in an Osteoblastic Cell Line (UMR 106-01 BSP).” Stanford, C.M., Jacobson, P., Eanes, D., Midura, R., AADR Meeting, San Antonio, March, 1995.

"RT-PCR Detectable mRNA levels Following Mechanical Strain Application to Osteoblasts" Stanford, C.M. IADR Meeting, Seattle Wa., March, 1994.

“Strain Alters RT-PCR Detectable Levels of mRNA.”, Stanford, C.M. Orthopaedic Research Society Meeting, New Orleans, La., Feb. 1994.

Stanford, C., Gehring, D., Solursh, M. and Keller, J. Osteoblast expression is altered as a function of sterilization treatment. IADR/AADR General Session and Exhibition, Chicago, IL, March, 1993.

Stanford, C.M., Solursh, M. and Keller, J.C. "In Vitro Model System for Phenotypic Evaluation of Bone Responses to Metal Oxide Surfaces." #1654 IADR meeting, Glasgow, Scotland, July 1-4, 1992.

Stanford, C.M., Brand, R., Keller, J.C. "Time Processing of Mechanical Signals by Bone Derived Cells." Presentation #685, 21st Meeting of AADR, Boston, Massachusetts, March 11-14, 1992.

Stanford, C.M., Brand, R., Melitou, S.D., Keller, J.C. "Bone Cells Respond to Strain With a Trigger-Response." Presentation #186, 38th Orthopaedic Research Society Meeting, February 17-20, 1992.

Stanford, C.M., Keller, J.C. and Solursh, M. "Phenotypic Expression of Rat Calvarial Osteoblasts on 600 grit and SB cpTi." Presentation #255, 17th meeting for Society for Biomaterials, Scottsdale, Arizona, May, 1991.

Stanford, C., Solursh, M. and Keller, J.C. "Immunolocalization and Distribution of Osseous Non-collagenous Proteins on cpTi." Presentation #804, 69th Meeting of IADR, Acapulco, Mexico, April 17-21, 1991.

Stanford, C.M., Solursh, M. and Keller, J.C. "Role of Integrin Receptors in Osteoblast Attachment to cpTi." Hatton Awards Presentation #8, 68th Meeting of IADR, Cincinnati, Ohio, March 7-11, 1990.

Stanford, C.M., Keller, J.C. and Solursh, M. "Protein Absorption on cpTi as a Function of Surface Roughness." Presentation #758, 19th Meeting of AADR, San Francisco, California, March, 1989.

Stanford, C.M., Fan, P.L. and Stanford, J.W. "Radiopacity of Posterior Composites." Presentation #644, 64th Meeting of IADR, Washington, DC, March, 1986.

XIII. Student Mentoring:

1. Graduate Thesis Directed:

<u>Degree</u>	<u>Year</u>	<u>Candidate</u>	<u>Title</u>
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Ph.D. Candidates

Ph.D.	2007-2008	Monique Cook	Modification and Assessment of nanotopography on implant surfaces. Department of Chemical Engineering, College of Engineering, University of Iowa.
Ph.D.	1994-2000	Dr. Supanee Buranadham	Dowel Design Optimization In An Endodontically Treated Single Rooted Tooth: A Finite Element Stress Analysis. (Thai Royal King's Scholarship Ananda Mahidol Foundation) Currently on Faculty at Prince of Songkla University, Thailand.

MS Candidates

MS	2011-2012	Dr. Evanthia Anadioti	
MSPH	2007-2009	Dr. Richi Kohli	QOL Assessment in patients affected with Ectodermal Dysplasias.
MS	1998-2005	Dr. Esam Alem	Mucosal sensitivity to dental casting alloys.

MS	1992-1998	Dr. Jim Dunne	Variation of solder strengths as a function of temperature rise.
MS	1994-1997	Dr. Bashshar Al-Rashdan	Effects of Argon Gas Discharge on the Metal Alloy Porcelain Bond Strength
MS	1994-1996	Dr. Dean Morton	Evaluation of Resilient Abutment Components on Measured Strains Using Dynamic Loading Conditions.

2. Other Graduate Committee Service:

<u>Degree</u>	<u>Year</u>	<u>Candidate</u>	<u>Title</u>
Ph.D.	2012-2013	Dr. Ghadeer Thalji	Genome wide array analysis of implant adherent cellular phenotypes” University of North Carolina. LF. Cooper Major Professor.
Ph.D.	1999-2003	Dr. Hiran Perinpanayagam	Focal Adhesion and Signal Transduction in Osteoblasts derived from Osteoporosis.
Ph.D.	1999-2007	Dr. Peter Jezewski	MSX1 and Nonsyndromic Orofacial Clefting.
Ph.D.	1994-1998	Dr. Steve Armstrong	Fractographic analysis of material dynamic wear.
Ph.D.	1994-1999	Dr. Leon Chang	<i>In vitro</i> and <i>in vivo</i> analysis of bone mineralization as a function of surface crystallinity.
Ph.D.	1995-1998	Enqing Tan (Dept of Anatomy and Cell Biology)	Regulation of Vascular Endothelial Cell Migration and Proliferation by Estrogen Receptor Gene Transfection.
MS	2006-2008	Nathan Schroeder	Analysis of Osteogenesis adjacent to OsseoSpeed Implants in predefined surgical defects using computer microtomography.
MS	2006-2008	Greg Segraves	Risk Assessment among Women on Oral Bisphosphonates Following Dental Surgery.
MS	2001-2003	Tracey Clark	Clinical Comparison of Computerized Axiography, Pantography and Interocclusal Registration to Determine Condylar Guidance for Three Articulators.
MS	2002-2004	Philip Tan	Impact of alteration of ferrule design on Endodontically treated teeth.
MS	2002-2003	Yung-Shen Huang	Evaluation of the ACP Classification System for Complete Edentulism.
MS	1999-2000	Jacob Wagner	Robotic Force Measuring Device and Clinical Stresses (College Engineering)used in Dental Examinations. Dept. Industrial Engineering
MS	1998-2000	Dr. Michael Heffernan	Color and Translucency of Ceramics

(Prosthodontics)

MS	1999-2000	Dr. Qasem Alomari (Operative Dentistry)	Cuspal flexural and polymerization shrinkage.
MS	1998-1999	Dr. Doug Henke (Prosthodontics)	Effect of Treated Reinforcement Fibers on the Flexural Strength and Modulus of Elasticity of Three Provisional Acrylic Resins.
MS	1996-1998	Dr. Robert McLachlan (Prosthodontics)	Reinforcement of Marginal Areas of a Polysiloxane Impression Material.
MS	1995-1997	Dr. David Gratton (Prosthodontics)	Dynamic Fatigue at the Dental Implant Fixture/Abutment Interface.
MS	1995-1997	Nigel Gomez (College of Engineering) Dept. Mechanical Engineering	Average Applied Loads During Caries Detection.
MS	1993-1997	Dr. Edward Cotter (Prosthodontics)	Role of Casting Button Size and Castability.
MS	1994-1997	Dr. Mike Huber (Periodontics)	Effects of IL-1 on Bone Resorption.
MS	1993-1997	Dr. Geoff Scheen (Prosthodontics)	Shear and Tensile Strength of InCeram Porcelain Materials.
MS	1993-1994	Dr. Shue-Fen Yang (Endodontics)	Tissue Dissolving Effects of Calcium Hydroxide and Sodium Hypochlorite.
MS	1992-1993	Dr. Chris Haganman (Prosthodontics)	Biomechanics of the IMZ Implant System.

3. Predocutorial Student Research Mentorship: The College of Dentistry and the University of Iowa provides certain students with a four year training scholarship based on entrance scores. This program is called the Dental Research Assistantship (or DRA) Program. Students who are supported by this mechanism are denoted with DRA below his/her name.

<u>Student</u>	<u>Year</u>	<u>Project Title and Awards Received by Student</u>
Ed Pantzlaff	2012-	CRP in patients with Obesity as measured between serum and GCF measurements- A clinical trial.
Robert Bowers	2012-	Role of nanometer laser topography on implant wound healing. Joint mentor with -College of Engineering.
Haddad B.	2007-2009	Histochemistry of implant surfaces. 2007 NIDCR Trainee

Michael Schiff	2006-2009	Dynamic fatigue of zirconia when used in simulated clinical conditions. 2007 NIDCR Trainee
Mark Sorenson	2006-2009	Effect of oral bisphosphonates on outcomes of surgical care – a retrospective analysis at the University of Iowa 2007 NIDCR Trainee
Ryan Lee	2006-2009	Micro-CT Imaging of Dental Implant Surfaces. 2006 NIDCR T-32 Trainee 2007 NIDCR Trainee
Luke Freml	2005-2007	Role of Fluoride Varnish and Provisional Cement Systems to modify demineralization in long-term fixed provisionals. (Co-Mentors with Dr. Jim Wefel) 2005 NIDCR T-32 Trainee Award 2006 American College of Prosthodontists (ACP) Research Fellowship Award.
Matthew Henry	2005-2007	Role of Abutment Surface Area for Crown Retention. 2006 NIH T-32 Trainee
Jonathan DeJong	2004-2006	Expression of bone non-collagenous proteins on implant surface topographies. 2004 AADR Student Research Fellowship Award.
Jeremy Godderidge	2003-2004	Impact of mental surface on crown retention 2003 ACP Research Fellowship Award
Donavan Browning	2004-2005	Osteoconductivity of bone to a fluoride releasing implant surface.
Janelle Eckdhal	2002-2005	Platelet adhesion and activation on microtopographies. 2003 AADR Student Research Fellowship Award
Chad Schwitters (DRA Award)	2001-2004	Does implant surface roughness alter the regulation of bone differentiation?
Zachary Kouri	2001-2003	Sputter coating methods of TiO ₂ Surfaces for dental Implant Technologies. 2001 T-35 NIH Trainee
Matthew Ross	2001-2003	Outcome study of patient oriented Quality of Life following implant therapy. 2001 T-35 NIH Trainee
Dan Norris	2001-2003	Fatigue properties and joint stability of single tooth conus-style implant restorations. 2002 AADR Student Research Award

		2001 AADR Student Research Award 2001 T-35 NIH Trainee
Michael Allen (DRA Award)	2001-2004	Dynamic Fatigue Properties of acrylic resins 2002 AADR Student Research Award 2003 ACP P&G Research Fellowship Award
Amy Wilkins	1998-2002	Development of a Prosthodontic Image database (MediaDatabase™). 2001 Dows Fellowship Award
Scott Hoyer DRA Award	1997-2001	Dynamic Fatigue Properties of the Dental Implant/Abutment Interface. 1998 AADR Student Research Awardee 1999 AADR Student Research Awardee
Paul Harris DRA	1999-2001	Clinical evaluation of a 6-degree of freedom force measuring device. 2000 AADR Student Research Award
Bhupinder Khanuja	1997-2000	Characterization of the Responses of Osteoblasts Derived from Osteoporotic Bone to Mechanical Strain. 1998 ACP/Astra Tech Student Research Awardee 1998 AADR Student Research Awardee 1999 AADR Student Research Awardee
Homan Mostafavi	1995-1998	“NMR Analysis of BSP and Mineral Formation” <u>Howard Hughes Fellowship Award.</u>
Rich Hesby	1994-1998	“Effects of Plasma Etching on the Wettability of Prosthodontic Impression Materials.”
Jim Morgan	1994-1998	“Calcium and Phosphate Dependent Dose-Response Mineralization of UMR 106-01 BSP.” T-35 Training Award
Matt Squire	1995-1996	“Alterations in Mineral formation with Physiological Strain” <u>NASA/Ames Research Consortium Award.</u>
Jonathan Hanridge (DRA Award)	1993-1997	“RT-PCR Standard for Bone Sialoprotein mRNA Quantitation.”
Dawn Drake	1993-1996	“Mechanism of action of physiological fluoride concentrations on the rapid mineralization response of the cell line UMR 106- 01 BSP.”
Ted Nelson	1990-1993	“Variations in avian alkaline phosphates expression, in vitro, due to cell density.”

David Gehring	1989-1993	“Osteoblast and gingival fibroblast collagen expression on implant surfaces.”
Galen Schneider	1989-1990	“Osteoblast proliferation and osteocalcin expression on cpTi.”
Steve Meletiou	1988-1993	Projects include: “Surface oxide coating conditions on cell adhesion and cell expression, collagen matrix conditions and osteoblast proliferation in a well defined mechanical strain environment.”

4. Postdoctoral Research Mentorship:

1997-1999	Dr. Fredrick Belch	“Isolation of Human Osteoblasts; calcium flux analysis.”
1992-1993	Dr. Neil Conti	“Phenotypic expression of alkaline phosphatase in a mechanically active environment.”
1991-1994	Dr. Jose Morcuende	“Evaluation of rat calvarial microdot osteoblast cultures under mechanical strain conditions.”
1991-1992	Dr. Steve Madey	“Proliferative and phenotypic osteoblastic responses within a well defined mechanical strain environment.”

XIV. Continuing Education (sponsored by the University; presented during the past five years most recent first)

“Implant Overdenture Therapy, a hands-on course.” Saturday February 5, 2011, Iowa City. Simulation exercises performed following a didactic lecture.

“Is it just me, Esthetics, Provisionals and Temporization. All Day CE Course, October 1, 2010, Iowa City. Didactics and hands-on training with implant level esthetics.

“Implant Overdenture Therapy, a hands-on course.” Saturday February 5, 2010, Iowa City. Simulation exercises performed following a didactic lecture.

“Implant Overdenture Therapy, a hands-on course.” Saturday January 31, 2009, Iowa City. Simulation exercises performed following a didactic lecture.

“Implant Overdenture Therapy, a hands-on course.” Saturday March 12, 2008, Iowa City. Simulation exercises performed following a didactic lecture.

“Lessons for the Future – role of implant therapy in general practice.” Saturday October 27, 2007 Alumni Day lecture, College of Dentistry, University of Iowa.

Single tooth immediate loading – a live patient and hands-on course. Friday and Saturday June 29-30, 2007. Combination of live patient demonstration and simulation lab exercises.

“Management of the Ectodermal Dysplasias, Lessons for Everyday practice” Gilbert Lilly Continuing Education Course, College of Dentistry, Saturday October 22, 2005.

“Tripod of modern Implant Dentistry” Gilbert Lilly Continuing Education Course, College of Dentistry, Saturday November 6, 2004.

“Evidenced Based Dentistry, Is this our Future?” CE Course presented in the Old Gold Lecture Series, College of Dentistry, October 20, 2001.

“Maximizing the Esthetic Potential” Presentation made as a part of an all day esthetics course in all ceramic restorations presented by the Dept. of Prosthodontics, September 29, 2001.

"Anterior Esthetics and Dental Implant Treatment" Dubuque County Dental Society, September 1999.

“Anterior Esthetics, a Key to Clinical Success” Dept. of Prosthodontic CE Course, December 5, 1997.

“Role of esthetics in complex treatment planning” Dubuque County Dental Society, September 18, 1996.

“Evaluating Anterior Esthetics” lecture in the “Prosthodontic Extravaganza CE Review Course” April 11, 1997 College of Dentistry Continuing Education Series.

“Endosseous Style Dental Implants: Lessons for Orthopaedics.” Iowa Orthopaedic Alumni Association meeting September 21-23, 1995.

Fort Dodge County Dental Society. Presentation on complex treatment planning issues, October 16, 1993.

Blackhawk County Dental Society: "Prosthodontic Implant Complications and Management" January 13, 1993.

"Clinical Introduction of Dental Implant Use, Prosthodontic Indications and Failures of Implants and Clinical Comparison of Correct Implant Systems." National Defense Medical Center, Taipei, Taiwan, September 7-14, 1992.

"Innovations in Implants." Continuing Education Course, Lecture on the "Role of Hydroxyapatite Coatings in Implant Bioacceptance." University of Iowa, College of Dentistry Continuing Education Black and Gold Series, Fall, 1990.

XV. Teaching Activities (Include the past five years; most recent first; provide narrative describing responsibility in each course)

1. Classroom, Seminar, or Teaching Laboratory

<u>Year</u>	<u>Course Title and No.</u>	<u>No. registered</u>	<u>length of course</u>
2015-present	DOST D3 Small Group Case Learning, 2 sessions per semester (15 weeks) 10 students/group, UIC College of Dentistry		Each session is 6 weeks long.
2011	Biomedical Engineering Graduate Seminar Course (51:191)	100	1 hr

2005-2008	Advanced Implant Techniques (84:C44)		Spring session 3, 1h sessions
1998-2002	Research Design in Dentistry 151:215	16	Spring session, 36 hrs/sem <u>Course Director</u>
2000-2004	Freshman Fixed Prosthodontic Technique 84:140/84:141	72	Spring session
1993 - present	Pathophysiology of Bone and Tooth Support Structures, 151:260	45	Fall session, 36 hr/sem <u>Course Director</u>
1993 - present	Graduate Restorative Materials, 84:224	25	Spring session, 36 hrs/sem Course Director (1993-2001)
1992 - 2008	Clinical Issues and Prosthodontic Treatment Planning 84:251	15	Each session 18 lec/session <u>Course Director</u>
1999 – 2002	Restorative Track 112:114/112:115	72	3-5 lectures/semester
1987 - 1999	Freshman Dental Materials, 112:115	72	Semester, 5 lectures/sem
1992 - present	Implant Dentistry AEGD Short Course, Dept. of Family Dentistry	72	Semester, 2 lectures/term
1992 - 2008	Fixed Prosthodontic Seminar	15	Fall session, 2 lectures/4 hours
1992 - 2008	Biomaterials Res. Methodology, 84:236	20	Fall session, 1 lecture/ 2 hours
1992 - 2008	Orthopaedic Basic Sciences and Pathology	40	Fall session, 1 lecture/ 2 hours
1991 - 1995	Bone Biology Short Course	12	alternating each fall, 3 lectures/ 9 hrs.
1989 - 1995	Research Methodology 92:612	25	Summer session, 2 lectures/summer
1989 - 1992	Oral Histology, 60:002	72	Fall session, 72 hrs/sem
1989	Occlusion II, 81:145	72	Summer session, 72 hs/sem

2. Clinical Teaching (undergraduate, graduate and direct patient care)

<u>Year</u>	<u>Where Occurred</u>	<u>weeks/year</u>	<u>hrs/wk</u>
1992 - 2008	Dept. of Prosthodontics - Graduate Students	52	4

1992 - 2014	Dental Science Building - DSP Prosthodontic Private Patient Care.	52	10
2015-present	Intramural Clinical Practice, Dept. Restorative Dentistry Division of Prosthodontics, College of Dentistry, University of Illinois at Chicago	52	5
2015-present	Clinical Experiential Teaching, Dept. Pediatric Dentistry, University of Illinois at Chicago	52	5