

**CURRICULUM VITAE**  
**University of Alabama at Birmingham School of Dentistry**  
**NICOLAAS C. GEURS, DDS, MS**

**ACADEMIC POSITION**

Rank: Professor in Periodontology  
Title: Department Chair  
School: School of Dentistry, UAB  
Office Address: UAB School of Dentistry  
                  Department of Periodontology  
                  1720 2<sup>nd</sup> Avenue South, SDB 412  
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**PERSONAL INFORMATION**

Nationality: Dutch  
Languages: English, Dutch, French, German  
Home Address: 2100 Peacock Lane  
                  Birmingham, AL 35223

**CURRENT APPOINTMENTS**

**EDUCATION**

1990: Drs Dentistry at A.C.T.A., Free University of Amsterdam, The Netherlands  
1992: Dentist Exam A.C.T.A., Free University of Amsterdam, The Netherlands  
1995: Certificate Periodontics, University of Alabama at Birmingham, School of Dentistry  
1995: MS Graduate School, University of Alabama at Birmingham, Master's in  
Clinical Dentistry

**LICENSURE**

1992-present Tandarts, European Community, Registered in The Netherlands  
BIG #29038195202  
1995-2001 Alabama Teaching Permit #205  
2001-present Alabama Special Teaching Permit #330  
2007-present Alabama Parenteral Sedation Permit

**BOARD CERTIFICATION**

1998 American Academy of Periodontology

## **PROFESSIONAL HISTORY**

### **ACADEMIC APPOINTMENTS**

#### University of Alabama at Birmingham

1995-1997	Research Instructor, Department of Periodontics
1997-2002	Assistant Professor, Department of Periodontics
2001-2015	Associate Scientist, Center for Metabolic Bone Disorders (CMBD)
2015-present	Senior Scientist, Comprehensive Arthritis, Musculoskeletal, Bone and Autoimmunity Center (CAMBAC)
2001-present	Graduate School Faculty
2002-2010	Associate Professor, Department of Periodontology
2010-present	Professor, Department of Periodontology

#### Visiting Professorship

2003	Universidad Francisco Marroquin, Guatemala
2009	Universidad Católica Santo Toribio de Mogrovejo, Chiclayo Peru

### **ADMINISTRATIVE APPOINTMENTS – UAB**

1998-2003	Director of Predoctoral Periodontics
2003-2012; 2014	Program Director, Advanced Education Program in Periodontology
2011-2012	Acting Chair, Department of Periodontology
2012-present	Chair, Department of Periodontology

### **SERVICE AND RECOGNITION**

#### **AWARDS/HONORS**

2005	Best Article Published in <i>The International Journal of Oral and Maxillofacial Implants</i> awarded by the Academy of Osseointegration for “A Comparison of Hydroxyapatite (HA)-coated Threaded, HA-coated Cylindrical and Titanium Threaded Endosseous Dental Implants” Jeffcoat MK, McGlumphy EA, Reddy MS, Geurs NC, Proskin HM.
2005	Inducted into American College of Dentists at 2005 annual meeting, Philadelphia, PA
2007	American Academy of Periodontology Educator Award
2010	Academy of Osseointegration Foundation Grant. Award presented at AO annual meeting in Orlando, FL
2014-2015	Selected to participate in Executive Development Program, UAB
2016	Named First Holder of the Dr. Tommy Weatherford/Dr. Kent Palcanis Endowed Professorship in Dentistry

- 2016 UAB President's Award for Excellence in Teaching Dentistry
- 2017-2018 ADEA Leadership Institute Fellow
- 2017 American Academy of Periodontology Foundation R. Earl Robinson Periodontal Regeneration Award

### **PROFESSIONAL SOCIETIES AND MEMBERSHIPS**

- 1995–present American Dental Association
- 1992–present American Academy of Periodontology
- 1995–present Alabama Dental Society
- 1995–present Birmingham District Dental Society
- 1992–present European Federation of Periodontology
- 1994–present American Association for Dental Research
- 1994–present International Association of Dental Research
- 1992–present Nederlandse Vereniging voor Parodontologie
- 1995–present Nederlandse Vereniging voor Orale Implantologie
- 1995–present American Dental Education Association
- 1992–present Southern Academy of Periodontology
- 1998–present Omicron Kappa Upsilon – Phi Phi Chapter
- 1995–present UAB School of Dentistry Alumni Association
- 1999–present Academy of Osseointegration
- 2004–present American College of Dentists

### **EXTRAMURAL SERVICE**

#### A. Professional Advisory Committees:

##### National and State Committees

- 2000-2002 Alabama Department of Health Osteoporosis Prevention Task Force, Dental Representative
- 2004-2014 American Academy of Periodontology Research Submission Sub-committee (Judge Orban Research Competition)
- 2005-2011 Consultant to the Commission on Dental Accreditation (Periodontology)
- 2009-present American Academy of Periodontology Education Committee
- 2010-2012 American Academy of Periodontology Postdoctoral Directors Organization, Chair
- 2010-2012 ADEA Council of Hospitals and Advanced Education Programs
- 2012-2012 American College of Prosthodontics Task Force on Specialty Referrals
- 2012-2016 CODA Predoctoral Review Committee
- 2014 Chair, American Academy of Periodontology Task Force for the Update of the 1999 Periodontal Disease Classification
- 2016-present American Board of Periodontology Examiner
- 2016-2022 Consultant to the Commission on Dental Accreditation (Periodontology)
- 2018-present American Academy of Periodontology Education Consultant

##### International Committees

- 2000-2003 IADR Hatton Award committee

## B. Editorial Service

2001-present	Ad hoc Reviewer, Journal of the American Dental Association
2006-present	Ad hoc Reviewer, Journal of Periodontology
2005-present	Ad hoc Reviewer, Journal of Clinical Periodontology
2007-present	Ad hoc Reviewer, ACTA Odontologica Scandinavica
2007-present	Ad hoc Reviewer, Journal of Dental Research
2011-present	Ad hoc Reviewer, Clinical Advances in Periodontics
2011-present	Journal of Periodontology and Clinical Advances in Periodontics Editorial Advisory Board

## INTRAMURAL SERVICE

### i. Present:

2011-present	Executive Council
2014-present	Electronic Dental Record Committee
2015-2018	Continuing Education Advisory Committee
2017-2018	Search Committee, Associate Dean for Research, Dentistry
2017-2020	Research Advisory Committee, Dentistry
2017-2025	President's Award for Excellence in Teaching Working Group
2018	Chair, Search Committee for Chair of Endodontics, Program director for the advanced training program in Endodontics
2018-2019	Standard 5 Task Force Committee
2018-2019	Strategic Planning & Assessment (SPA) Committee
2018-2021	Chair, Promotion and Tenure Committee

### ii. Past:

#### School of Dentistry Committees

1997-2000	Student Honors and Awards Committee (Chair 1999, 2000)
1998-1999	Academic Council
1998-1999	Quality Council
1998-1999	Ad Hoc Committee for Curriculum Review
1999-2002	Faculty Council (Vice-chair 1999; Chair 2000)
1999-2000	Accreditation Committee-Undergraduate Periodontology
1999-2006	Curriculum Committee
2000-2003	Academic Performance Committee
2000-2001	Executive Council
2000-2003	Omicron Kappa Upsilon Secretary/Treasurer
2003-2004	Omicron Kappa Upsilon President
2003	Search Committee for Dean of the School of Dentistry
2006-2008	Faculty Council
2003-2011	Postgraduate Education Committee
2003-2007	Postgraduate Accreditation Committee
2007-2010	Promotion and Tenure Committee
2010-2013	Faculty Development Committee
2012-2013	Promotion and Tenure Committee
2012-2013	Dental School Liaison to the CAS Innovation Forum

- 2008-2014 Intramural Professional Practice Committee
- 2014-2015 Postgraduate Education Committee, Chair
- 2014-2017 Strategic Planning & Assessment (SPA) Committee

University-Wide Committees

- 2006-2007 Distinguished Faculty Lecturers Committee
- 2013-present UAB Global Citizenship, Dentistry Representative
- 2014-2016 Ingalls/UAB National Alumni Society Award for Lifetime Achievement in Teaching Selection Committee
- 2017 Search Committee, Senior Vice President for Academic Affairs and Provost

**Thesis Committees/PhD Dissertation Committees**

**Master's Degree Candidates**

- 2002 **Gonzalez-Toledo, Javier** UAB Periodontal Resident, Master's Degree Candidate  
"Cytokine levels on patients with periodontal disease and premature low birth weight babies"
- 2004 **Romanos, Alain** UAB Periodontal Resident, Master's Degree Candidate  
"Papilla regeneration using micronized acellular dermal graft"
- 2005 **Chaddad, Karim** UAB Periodontal Resident, Master's Degree Candidate  
"Immediate Loading of Two Temporary Anchorage Devices"
- 2006 **Lee, Hung-Wen** UAB Periodontal Resident, Master's Degree Candidate  
"Efficacy of Platelet-Rich Plasma on Wound Healing"
- 2008 **Gay, Isabel** UAB Periodontal Resident, Master's Degree Candidate  
"Isolation and characterization of pluripotent human periodontal ligament stem cells"
- 2009 **Livada, Rania** UAB Periodontal Resident, Master's Degree Candidate  
"Association between clinical measurements of bone density with radiographic and histological data"
- 2010 **Leavitt, Cury** UAB Periodontal Resident, Master's Degree Candidate  
"Correlation of bone density using histomorphometric and cone beam computed tomographic analysis"
- 2010 **Reganato, Anthony** UAB Periodontal Resident, Master's Degree Candidate  
"Esthetic criteria analysis of single-tooth implant-supported restorations in the anterior maxilla"
- 2011 **Pardo, Juan Francisco** UAB Periodontal Resident, Master's Degree Candidate  
"Impact of site development techniques in the soft tissue height on single implant supported prosthesis in the anterior maxilla"
- 2012 **Beaudry, Kathleen** UAB Periodontal Resident, Master's Degree Candidate  
"A histologic and radiographic analysis of bone formation under the elevated sinus using venous coagulum as the sole filling material"

- 2012 **Abou-Arraj, Ramzi** UAB Periodontal Resident, Master's Degree Candidate  
 "The characteristics of soft tissue following root coverage procedures with two types of acellular dermal matrix allografts"
- 2012 **Nguyen, Michael** UAB Periodontal Resident, Master's Degree Candidate  
 "The influence of growth factors applied during socket conversion, on the incidence of spontaneous early dental implant exposure"
- 2013 **Bain, Jennifer** UAB Periodontal Resident, PhD Degree Candidate  
 "Targeted delivery of osteoinductive molecules to bone grafts"
- Ntounis, Athanasios** UAB Periodontal Resident, Master's Degree Candidate  
 "A prospective study of bone augmentation with growth factors in extraction sockets"
- Kaur, Maninder** UAB Periodontal Resident, Master's Degree Candidate  
 "The effect of an intensive oral hygiene regimen on gingival inflammation during pregnancy: Clinical and Laboratory"
- 2015 **Felts-Randall, Elizabeth** UAB Periodontal Resident, Master's Degree Candidate  
 "A prospective randomized clinical trial to assess the performance of microtextured dental implants with or without machined collar-1 year results"
- 2015 **Matin, Britany** UAB Periodontal Resident, Master's Degree Candidate  
 "The accuracy of a clinician's assessment of insertion torque at implant placement"
- 2017 **Sharma, Pragma** UAB Periodontal Resident, Master's Degree Candidate  
 "Comparison of bone augmentation techniques in extraction sockets: A soft and hard tissue wound healing analysis"
- 2017 **Hsu, Jeffrey** UAB Periodontal Resident, Master's Degree Candidate  
 "A Prospective, randomized clinical trial to compare free gingival graft and connective tissue graft around implants with a lack of keratinized mucosa"
- Guzman, Luis** UAB Periodontal Resident, Master's Degree Candidate  
 "Correlation of preoperative analysis of CBCT gray value with implant primary stability"
- 2018 **Valiquette, Gentiane** UAB Periodontal Resident, Master's Degree Candidate  
 "Clinical and Histomorphometric Outcomes Following the Use of Small versus Large Particle Sized Bone Allografts in Ridge Preservation Procedures: A Randomized Clinical Trial"
- 2018 **Basma, Hussein**, UAB Periodontal Resident, Master's Degree Candidate  
 "A randomized trial to evaluate the effect of allograft bone particle size on histomorphometric and clinical outcomes following ridge preservation and augmentation procedures"

## MENTORSHIPS

### Student Research

- 1993 Bart Gerdessen, Exchange Student ACTA, Amsterdam, The Netherlands  
“Digital Radiography and Diagnostics in Periodontology”
- 1994 Elsbeth van Unen and Irene van der Zee, Exchange Students ACTA,  
Amsterdam, The Netherlands  
“Digital Subtraction Radiography in the Evaluation of Periodontal  
Regeneration”
- 1996 Niels Koning and Farnaz Yazdi Khaleghi, Exchange Students ACTA,  
Amsterdam, The Netherlands  
“Retrospective Radiographic Analysis of Sinus Grafts”
- 1997 Marieke van der Maarel and Ioana Pavelescu, Exchange Students  
ACTA, Amsterdam, The Netherlands  
“Keratinized Gingiva and Implant Success”
- 1997 Jon Bowie, UAB School of Dentistry  
“Design of a Clinical Trial for a Novel Topical Anesthetic”
- 1998 Siyad Kanho, Exchange Student ACTA, Amsterdam, The Netherlands  
“Evaluation of Regeneration Using a Micro-dense Barrier with Digital  
Subtraction Radiography”
- 1999 Charles Crowder, UAB School of Dentistry  
“Radiographic Assessment of Periodontal Bone Loss Over 20 Years”
- 1999 Christian Grientschnig and Ayan Rambharse, Exchange Students  
ACTA, Amsterdam, The Netherlands  
“Radiographic Evaluation of Ridge Augmentations”
- 2000 Sean Hair, UAB School of Dentistry  
“Intrapocket Anesthesia for Scaling and Root Planing”
- 2001 Candice Johnson, UAB School of Dentistry  
“Keratinized gingival and soft tissue position around implants in the  
anterior mandible” (First Place Clinical Science, UAB Alumni Meeting  
Table Clinic)
- 2002 Maarten Boogaard and Roeland van der Laan, Exchange Students  
ACTA, Amsterdam, The Netherlands “The effect of antibiotic treatment  
on the healing of bone following guided tissue regeneration”  
“Periodontal Regeneration and Antibiotic Regiments as Assessed by  
Digital Subtraction Radiography”
- 2004 Henk van Diermen and Jos Biesheuvel, Exchange Students, ACTA,  
Amsterdam, The Netherlands “Crestal bone changes and the role of the  
microgap between implant and abutment: a retrospective radiographic  
evaluation”
- 2004 Marvin van der Linde and Navid Rezaei, Exchange Students, ACTA,  
Amsterdam, The Netherlands “
- 2005 Bahram Assad Zadeh, Exchange Student, ACTA, Amsterdam, The  
Netherlands
- 2011 Eduardo Montero, Exchange Student, Madrid Spain
- 2013 Vitor Medeiros, Exchange Student, Sao Paulo Brazil

2013	Lisa Vermeulen, Exchange Student, ACTA, Amsterdam, The Netherlands “Effect of intensive oral hygiene regimen during pregnancy on periodontal health, cytokine levels and pregnancy outcomes: a pilot study”
2018	Lauren Miele, Daniel Peterson UAB, Abutment Angle study

### **TEACHING EXPERIENCE**

1993-present	Lectures in Periodontology
1993-present	Clinical teaching pre-doctoral Periodontology
1995-present	Lectures on dental implantology
1995-present	Clinical teaching post-graduate Periodontology
1996-2009	Coursemaster, Periodontology I and II
2001-2014	Coursemaster, Periodontology Clinic II
2001-2014	Coursemaster, Literature Review
2003-2009	Coursemaster, Clinical Case Conference in Periodontology
2003-2015	Coursemaster, Advanced Therapeutics in Periodontology
2003-2016	Coursemaster, Introduction to Surgical Implants

### **FUNDED RESEARCH**

A Study to Evaluate Efficacy of the Sustain Implant. Lifecore Biomedical. 1992-2001; \$104,300.

Role on Project: Co-Investigator

Periodontal Disease Activity Modeling. NIH R29 DE09798. 1993-1998; \$487,592.

Role on Project: Co-Investigator

Bone Analysis Study. The Procter & Gamble Company. 1993-2001; \$1,333,137.

Role on Project: Co-Investigator.

HA Implant Clinical Trial. Steri-Oss. 1994-2001; \$535,312.

Role on Project: Co-Investigator.

Tissue Status in Relation to Bone Density and Osteoporosis. Women's Health Initiative. 1995-2002; \$1,602,190.

Role on Project: Co-Investigator

Efficacy of an Anti-inflammatory Oral Rinse for the Treatment of Periodontitis. The Procter & Gamble Company. 1996-1999; \$332,136.

Role on Project: Co-Investigator.

UAB Rural Perinatal Center: Infection and Prematurity (Dental Supplement). NIH PO1 HD33927. 1996-2001; \$972,215.

Role on Project: Co-Principal Investigator.



Radiographic Analysis of Longitudinal Dental Implant Studies. Calcitek. 1997-2000; \$20,000.  
Role on Project: Co-Investigator

Host Factors in Connective Tissue & Bone Loss. NIH P20 DE12370. 1997-1998; \$144,000.  
Role on Project: Co-Investigator.

Novel Topical Anesthetic for Periodontal Treatment. Astra USA. 1997-1998; \$16,500.  
Role on Project: Principal Investigator.

Novel Topical Anesthetic for Periodontal Treatment. Astra USA. 1998-2001; \$22,727.  
Role on Project: Principal Investigator.

Efficacy of PerioChip to Enhance Periodontal Regeneration. Astra USA. 1998-1999; \$110,000.  
Role on Project: Co-Investigator

24-month, Double-blind Randomized Placebo-controlled Study to Determine the Effectiveness of MK-217 in Reducing Alveolar Bone Loss in Men and Women with Moderate or Severe Periodontal Disease in the Absence of Scaling and Root Planing. Merck Research. 1998-2000; \$161,699.  
Role on Project: Co-Investigator.

Hormone Therapy to Improve Oral Health in Postmenopausal Women. Wyeth Ayerst. 1998-2000; \$80,640.  
Role on Project: Co-Investigator.

Oral and Skeletal Bone Loss in Older Men (a MrOS Dental Ancillary Study). NIH/NIDCR 2001-2006; \$660,291.  
Role on Project: Co-Principal Investigator

MOTOR: Maternal Oral Therapy to Reduce Obstetric Risk, NIH/NIDCR, 2003-2008, \$2,271,788  
Role on Project: Co-Investigator

The Efficacy of Gore Resolute Adapt LT Membranes for Use in Lateral Ridge Augmentation. W.L. Gore & Associates, 2003-2005, \$40,870  
Role on Project: Principal Investigator

Radiographic Analysis for Safety and Effectiveness of GEM 21S  
BioMimetics Pharmaceuticals, Inc. 2005 \$8,100 (total direct cost)  
Role on Project: Co-Investigator

Qualification of Clinical Radiographic Analysis for Safety and Effectiveness of a Novel Bone Augmentation System.  
BioMimetics Pharmaceuticals, Inc. 2004-2006 \$25,200 (total direct cost)  
Role on Project: Co-Investigator

A Study to Evaluate the Efficacy of the 3 mm Maximus Dental Implants in Areas of Limited Tooth-to-Tooth Spacing.

BioHorizons 2004-2006 \$12,503 (total direct cost).

Role on Project: Co-Investigator

A 9-month, 3-arm multicenter clinical trial of treatment with Perioline Gel (2% minocycline HCL) for adjunctive use to scaling and root planing in adults with periodontal disease where Perioline Gel is compared to SRP and SRP with vehicle: Multicenter randomized trial using 3<sup>rd</sup> party outcome evaluation.

Sunstar Butler 2005-2006 \$133,513 (total direct cost)

Role on Project: Co-Investigator

A prospective, randomized-controlled multicenter study of the Osseotite certain lateralized implant in short-span fixed bridge cases for preservation of crestal bone.

3i 2005-2008 \$40,000 (total direct cost)

Role on Project: Co-Investigator

A study to evaluate the Morse Taper Lock and connection of the Ace implant internal-connection and it effect of the biological gap.

Ace 2005-2009 \$15,468 (total direct cost)

Role on Project: Co-Investigator

Evaluation of NobelDirect OD Implant

Nobel Biocare, 2004-2007 \$12,150 (total direct cost)

Role on Project: Co-Investigator

A study of oral health care education and therapy to reduce gingivitis during pregnancy.

Procter & Gamble 2007-2010 \$200,000

Role on Project: Principal Investigator

A prospective study of bone augmentation techniques in extraction sockets and implant surface textures.

BioHorizons, Inc. 2008-2013 \$121,200

Role on Project: Co-Investigator

A prospective, randomized-controlled evaluation of nanotite and osseotite surface implant performance in graduate student programs.

Biomet/3i 2007-2012 \$145,000

Role on Project: Principal Investigator

Diabetes and Periodontal Therapy Trial (DPTT)

NIH/NIDCR 2008-2013 \$2,307,071

Role on Project: UAB Co-Investigator

Diabetes and Periodontal Therapy Trial (DPTT)

NIH/NIDCR 2009-2010 \$83,115 (ARRA Administrative Supplement)  
Role on Project: UAB Co-Investigator

A prospective longitudinal study of growth factor enhanced socket conversion  
Academy of Osseointegration Foundation 2009-2010 \$15,000  
Role on Project: Principal Investigator

Multi-center, Post-market, Prospective, Randomized, Examiner-Only-Masked Study of Root Coverage with Acellular Dermal Matrix: Puros Dermis versus AlloDerm  
Zimmer Dental 2009-2011 \$47,480 (total direct costs)  
Role on Project: Principal Investigator

Molecular Heparin Sulfate Delivery in Guided Tissue Regeneration  
NIH/NIDCR 2009-2011  
UAB Consultant

A Randomized, double-blind, controlled, multicenter dose verification clinical trial to evaluate the safety and effectiveness of Guidor growth factor enhanced graft substitute for the treatment of periodontal defects 6-months post-surgery (Radiographic Analysis)  
Sunstar, 2012-2014 \$40,890 (total direct cost)  
Role on Project: Principal Investigator

A randomized controlled clinical trial to evaluate late-first to mid-second trimester introduction of advanced daily oral hygiene on pregnancy gingivitis and subsequent birth outcomes: Oral hygiene and maternity outcomes multi-center study (OHMOM)  
Procter & Gamble, 2011-2015, \$1,200,000 (total direct cost)  
Role on Project: Co- Investigator

A prospective clinical evaluation of all ceramic implant-crown restorations made from a total digital protocol versus conventional impression techniques  
Straumann USA, 2012-2015, \$84,734 (total direct cost)  
Role on Project: Co-Investigator

A randomized, controlled, multicenter, clinical study evaluating the outcomes of periodontal surgery in supra-alveolar-type defects with or without Straumann Emdogain  
Straumann USA, 2012-2014, \$74,207 (total direct cost)  
Role on Project: Co-Investigator

A Randomized, double-blind, controlled, multicenter dose verification clinical trial to evaluate the safety and effectiveness of Guidor growth factor enhanced graft substitute for the treatment of periodontal defects 6-months post-surgery (Clinical trial)  
Sunstar, 2012-2014 \$72,750 (total direct cost)  
Role on Project: Principal Investigator

Prospective Study for Bone Augmentation Techniques in Extraction Sockets  
BioDlogics Protocol ID: Amnio-12 2013-2015 \$56,542 (total direct cost)

Role on Project: Co-Investigator

A 5-year assessment of BioHorizons' dental implants: retrospective review of clinical and radiographic data.

BioHorizons 2014-2017 \$50,274 (total direct cost)

Role on Project: Co-Investigator

A randomized, double-blind, placebo-controlled study to evaluate the safety, efficacy and treatment regimen of ST266 in subjects with moderate to severe periodontitis.

Stemnion/Noveome 2016-2018 \$202,765 (total direct cost)

Role on Project: Principal Investigator

Survey of Oral Hygiene and Health of Mother and Child at a 1 to 4 year recall period

Procter & Gamble 2016-2017 \$112,447 (total direct cost)

Role on Project: Co-Investigator

A multicenter, phase III, prospective, randomized, active comparator study with a parallel group, paired patient study design comparing standard root planing versus a Periodontal Structure Repair device (PSR) to assist with the treatment of pockets caused by periodontal disease.

Perioavance 2018-2020 \$139,260 (total direct cost)

Role on Project: Principal Investigator

A randomized, double-blind, placebo-controlled, parallel-group, multi-center study to assess the efficacy, safety and tolerability, and pharmacokinetics of INS1007 administered once daily for 24 weeks in patient with non-cystic fibrosis bronchiectasis-The Willow Study

Insmed Inc. 2018-2020

Role on Project: Dental Consultant

Ga13 signaling attenuates periodontal inflammation and alveolar bone loss in the mouse model of age-associated periodontitis

RO1 DE028264 2018-2023 \$237,500 (total direct cost)

Role on Project: Investigator

Treat-to-target and personalized approach to periodontal therapy

R34 DE027410 2018-2019

Role on Project: Principle Investigator UAB site

### **Patent**

61/262,034 High torque dental implant system

## **BIBLIOGRAPHY**

### **Manuscripts**

1. Chaves ES, **Geurs NC**, Reddy MS, Jeffcoat MK. 1996. Clinical and radiographic imaging evaluation of bioabsorbable membranes in the treatment of periodontal bone defects. *Int J Periodontics Restorative Dent*. 16:443-453. PMID:9084317
2. Wang IC, Reddy MS, **Geurs NC**, Jeffcoat MK. 1996. Risk factors in dental implant failure. *J Long Term Eff Med Implants* 6(2):103-117. PMID:10172790
3. Reddy MS, Palcanis KG, **Geurs NC**. 1997. A comparison of manual and controlled-force attachment level measurements. *J Clin Perio* 24(12):920-926. PMID:942430
4. Becker BE, Becker W, Ricci A, **Geurs NC**. 1998. A prospective clinical trial of implants placed at the time of tooth extraction. *J Periodontol* 69:920-926.
5. **Geurs NC**, Wang I-C. 1999. Diagnostic tests for periodontal disease. *Indiana Dent Assoc* 78(1):30-35. PMID:10740491
6. Jeffcoat MK, Palcanis KG, Weatherford TW, Reese M, **Geurs NC**, Flashner M. 2000. Use of a biodegradable chlorhexidine chip in the treatment of adult periodontitis: Clinical and radiographic findings. *J Periodontol* 71:256-262. PMID:10711616
7. Reddy MS, **Geurs NC**, Jeffcoat RL, Proskin H, Jeffcoat MK. 2000. Periodontal Disease Progression. *J Periodontol*, 71:1583-1590. PMID:11063391
8. Jeffcoat MK, **Geurs NC**. 2000. Oral bone loss, osteoporosis and preterm birth: What do we tell our patients now? *Compendium*. 21(7):1-7.
9. Jeffcoat MK, **Geurs NC**, Reddy MS, Goldenberg R, Hauth J. 2001. Current evidence regarding periodontal disease as a risk factor in preterm birth. *Annals of Perio*, 6:183-188.
10. Jeffcoat MK, **Geurs NC**, Magnusson I, MacNeil SR, Mickels N, Roberts FA, Robinson P, Salamati A, Yukna R. 2001. Intrapocket Anesthesia for Scaling and Root Planing: Results of a Double Blind Multicenter Trial Using Lidocaine Prilocaine Dental Gel. *J Periodontol*. 72:895-900. PMID:11495138
11. **Geurs NC**, Wang I-C, Shulman LB, Jeffcoat MK. 2001. Retrospective radiographic analysis of sinus graft and implant placement procedures from the Academy of Osseointegration Consensus Conference on Sinus Grafts. *Int J Periodontics Restorative Dent* 21:517-523. PMID:11693244
12. Jeffcoat MK, **Geurs NC**, Reddy MS, Cliver SP, Goldenberg RL, Hauth JC. 2001. Periodontal infection and preterm birth. Results of a prospective study. *JADA* 132:875-880. PMID:11480640

13. **Geurs NC**, Reddy MS, Jeffcoat MK. 2001. Clinical evaluation of micro-textured, dense polytetrafluoroethylene (PTFE) membrane in interproximal defects. Technical Monograph, Osteogenics Biomedical, Inc.
14. Jeffcoat MK, **Geurs NC**, Reddy MS, Goldenberg RL, Hauth JC. 2001. Current evidence regarding periodontal disease as a risk factor in preterm birth. *Ann Periodontol* 6:183-188. PMID:11887462
15. **Geurs NC**, Jeffcoat RL, McGlumphy EG, Reddy MS, Jeffcoat MK. 2002. Influence of implant geometry and coating on progressive osseointegration. *Int J Oral Maxillofac Implants.* 17(6):811-815. PMID: 12507240
16. Reddy MS, **Geurs NC**, Wang I-C, Liu P-R, Hsu Y-T, Jeffcoat RL, Jeffcoat MK. 2002. Mandibular growth following implant restoration: Does Wolff's Law apply to residual ridge resorption? *Int J Periodontics Restorative Dent.* 22:315-321. PMID: 12212678
17. Reddy MS, Jeffcoat MK, **Geurs NC**, Palcanis KG, Weatherford TW, Traxler BM, Finkelman RD. 2003. Efficacy of controlled-release subgingival chlorhexidine to enhance periodontal regeneration. *J Periodontol*, 74:411-419. PMID: 12747444
18. Magnusson I, **Geurs NC**, Harris PA, Hefti AF, Mariotti AJ, Mauriello SM, Offenbacher S, Soler L. 2003. Intrapocket anesthesia for scaling and root planing in pain sensitive patients. *J Periodontol*, 74:597-602. PMID:12828139
19. **Geurs NC**, Lewis CE, Jeffcoat MK. 2003. Osteoporosis and Periodontitis. *Periodontology 2000*, 32:105-110. PMID:12756036
20. Jeffcoat MK, McGlumphy EA, Reddy MS, **Geurs NC**, Proskin HM. 2003. A comparison of hydroxyapatite (HA)-coated threaded, HA-coated cylindrical, and titanium threaded endosseous dental implants. *Int J Oral Maxillofacial Imp*, 18:406-410. PMID: 12814316
21. Jeffcoat MK, **Geurs NC**, Lewis CE. 2003. Osteoporosis and periodontal bone loss. *Clin Calcium*, 13(5):577-581. PMID:15775125
22. Jeffcoat MK, Hauth JC, **Geurs NC**, Reddy MS, Cliver SP, Hodgkins PM, Goldenberg RL. 2003. Periodontal disease and preterm birth: Results of a pilot intervention study. *J Periodontol*; 74:1214-1218. PMID: 14514236
23. Reddy MS, **Geurs NC**, Gunsolley JC. 2003. Periodontal host modulation with antiproteinase, anti-inflammatory and bone sparing agents. A systematic review. *Ann Periodontol*, 8:12-37. PMID: 14971246
24. **Geurs NC**. 2007. Osteoporosis and Periodontal Disease. *Perio 2000*, 44:29-43. PMID:17474924

25. Phipps KR, Chan BK, Madden TE, **Geurs NC**, Reddy MS, Lewis CE, Orwoll ES. 2007. Longitudinal study of bone density and periodontal disease in men. *J Dent Res*. 86: 1110-1114. PMID: 17959906
26. Chaddad K, Ferreira AFH, **Geurs N**, Reddy MS. 2008. Influence of surface characteristics on survival rates of mini-implants. *Angle Orthod* 78; 107-113. PMID: 18193961
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developmental and acquired conditions: Consensus report of workgroup 3 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *J Clin Periodontol.* 2018 Jun;45 Suppl 20:S219-S229. doi: 10.1111/jcpe.12951. PMID: 29926500

### **Book Chapter:**

**Geurs NC:** Quantitative analysis in dental radiography for implant dentistry. University of Alabama at Birmingham. Thesis, 1995

**Geurs NC, Vassilopoulos PJ, Reddy MS.** 2010. Soft Tissue Considerations in Implant Site Preparation. In: *Oral and Maxillofacial Surgery Clinics of North America.* Waite, PD. Ed. Elsevier, Maryland. 22:387-405.

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## **INVITED PRESENTATIONS**

### **A. National Meetings**

- 1996 "Gingival inflammation related to dental implants and keratinized gingiva"  
American Academy of Periodontology Annual Meeting, New Orleans, LA
- 2000 NorthEast Society of Periodontics Annual Meeting: Diagnostics in Periodontics  
Lecturer and Discussion Panel Member, New York, NY
- 2003 "Soft tissue considerations for dental implants. Advanced bone grafting and site preparation"  
US Army, Fort Gordon, GA
- 2004 "Pre-term delivery and Periodontitis"  
March of Dimes conference on pregnancy outcomes, Scottsdale AZ
- "Pre-term delivery and Periodontitis"

Alabama Department of Health, Tuscaloosa AL

2005 “Soft tissue considerations for dental implants. Advanced bone grafting and site preparation” US Army, Fort Gordon, GA

“Clinical and histological evaluation of lateral ridge augmentations” Miami Master’s Conference, Miami, FL

“The efficacy of resorbable membranes for use in lateral ridge augmentations” Academy of Osseointegration Annual Meeting, Orlando FL

2006 “Predictable Clinical and Histological Results Utilizing Guided Bone Regeneration” Grand Rounds-OMS UAB School of Dentistry, Birmingham, AL

AADR Session Chair-Implantology Research

“Parameters for Success with Guided Bone Regeneration”

“Predictable Clinical and Histological Results Utilizing Guided Bone Regeneration” Global Institute of Dental Education Europe Meeting, Amsterdam, The Netherlands

“Predictability and Innovations in Implant Dentistry and Periodontology” Inter-Mountain Periodontal Society Meeting, Salt Lake City, UT

“Esthetic Periodontology in Support of the Restorative Dentist” Sarasota District Dental Society, Sarasota, FL

2007 “Current concepts in American Dentistry: Implantology/Periodontics”; “Ridge Augmentation for Implant and Conventional Restorative Therapy” New York University College of Dentistry

2008 “Esthetic periodontics treatment of recession defects” Sarasota District Dental Society, Sarasota FL

“Periodontal esthetics and implant site development” US Army, Fort Gordon, GA

“Hard tissue site development” New York University College of Dentistry Continuing Dental Education Program:

“Narrow Diameter Implants-Hard Tissue Site Development” Kentucky Periodontal Society Annual meeting, Louisville, KY

2012 “Periodontal Inflammation and Systemic Health: What do you tell your patients?”  
“Esthetic Periodontology in Support of the Restorative Dentist”  
UAB School of Dentistry Alumni Weekend Ansley Brown Speaker

- 2013 “Randomized clinical trial results of laser ablated abutments vs traditional abutments”  
Biohorizons Global Symposium, Miami FL
- “Allografts for the use in oral regeneration” Greater Houston Society of Periodontology  
Houston TX
- 2014 “Peri-Implantitis” Florida Association of Periodontists Annual meeting Keynote  
speaker
- “Esthetics periodontics in support of the general dentist, implant maintenance and the  
prevention of peri-implantitis” 24<sup>th</sup> annual Pete Fedi Lecturer, UMKC Kansas City
- 2015 “Optimizing Soft Tissue Integration: From innovation to clinical application”  
BioHorizons Global Symposium, Los Angeles CA
- 2016 “Pursuing Wellness in Our Periodontal Practices”, American Academy of  
Periodontology Annual Meeting, San Diego, CA
- 2017 “Evidence-based site development techniques in oral reconstruction”  
AAPF Charles W. Finley Visiting Scholar, University of Washington, Seattle WA
- “Leadership in Oral Health: Everything you wanted to know about Periodontology  
but never asked”, ALAGD annual meeting, Sandestin FL
- 2018 “Success in Oral Reconstruction and Regeneration through Minimally Invasive  
Techniques” The 47th Annual Arthur H. Merritt Memorial Lectureship, Dallas, TX

## **INVITED PRESENTATIONS**

### **B. International Meetings**

- 1996 IADR annual meeting Vancouver, BC Canada  
Session Chair: Implantology Research Group, Vancouver BC Canada
- 1999 Guatemalan Dental Society Annual Meeting: Current Concepts in Periodontology  
Lecturer and Discussion Panel Member
- 2000 EuroPerio– Swiss Periodontal Society, Geneva Switzerland Grant  
“Leptin Receptor Polymorphisms and Periodontitis in Rats”
- 2002 Second Chun Shan -- UAB Dental Implantology Symposium, Taiwan  
“Mucogingival Considerations for Implant Placement”  
“Sinus Grafting Procedures”
- Universidad Francisco Marroquin Facultad de Odontologia, Guatemala City, Guatemala  
Featured Speaker at Semana Científica  
Lectures to Dental Faculty, Students and Community

- WCOI 6, Hawaii  
 “Pharmacotherapeutics and Genomics”
- 2003 Universidad Francisco Marroquin Facultad de Odontologia, Guatemala City,  
 Guatemala Featured Speaker-Periodontology in Semena Scientifica
- 2004 IADR/AADR Satelite research Session, Hawaii  
 “Pharmacotherapuetics and implantology
- University of Nijmegen, The Netherlands  
 “Mucogingival considerations for dental implants”
- Sitges Spain: Undergraduate Implantology programs Seminar participant
- Universidad Francisco Marroquin Facultad de Odontologia, Guatemala City,  
 Guatemala, “Treatment planning for dental implants”
- 2005 Howard University Alumni Association Meeting, Puerto Rico  
 “Periodontitis and Pregnancy Outcomes”
- Global Institute of Dental Education Europe Meeting, Amsterdam, The Netherlands  
 “Parameters for Success with Guided Bone Regeneration”  
 “Predictable Clinical and Histological Results Utilizing Guided Bone Regeneration”
- Meikai and Ashahi Universities, Japan  
 “Anterior Implant Esthetics”
- 2006 Nijmegen, Den Haag, The Netherlands “ Ridge Augmentation for Implant and  
 conventional Restorative Therapy”
- Catholic University of Nijmegen, The Netherlands “Predictable clinical and  
 histological results utilizing a simplified guided bone regeneration approach”
- 2007 Mihadol University, Bangkok Thailand “Keys to success in implant dentistry” A three  
 day course at the ICOC meeting.
- Seoul University School of Dentistry, Seoul Korea “Implant solutions: Narrow  
 diameter one-piece implants for cost effective overdentures and for superior esthetics  
 and function in areas of limited space”
- 2009 Lima Peru Peruvian Society of Dental and Maxillofacial Prosthodontics Live surgery  
 Demonstration Sinus Graft
- Chiclayo Peru Peruvian Society of Dental and Maxillofacial Prosthodontics  
 Periodontics / Prosthodontics interrelationship

ACTA Academic Centre for Dentistry in Amsterdam implantology program:  
Bioengineering in Implant dentistry, Amsterdam, The Netherlands

2010 ACTA Academic Centre for Dentistry Periodontology, Amsterdam The Netherlands

2011 Peri-implantitis, Clinic opening Ceremony, Oral and Maxillofacial surgery clinic.  
Jeroen Bosch Hospital, The Netherlands

2012 Dutch Periodontal Society Pre Annual Meeting Workshop Allografts in Regeneration,  
Utrecht, The Netherlands

ISDR, Advanced Bone Grafting, Chennai India

Keynote speaker, Indian Society of Dental Research Annual meeting. Chennai, India  
Multi center research: Design and infrastructure development.

Advanced surgical techniques: A hands-on course, Manchester UK

2013 Irish Society of American Trained dental specialist: Case presentation: Dublin Ireland

2014 Peruvian Dental Board Annual meeting. “Successful techniques for the creation of soft  
tissue health and esthetics”, Lima, Peru

45<sup>th</sup> Annual meeting of the Universidad Peruana Cayetano Heredia, “Esthetic  
Periodontology in Support of the Restorative Dentist”, Lima, Peru

2017 Taiwanese Academy of Periodontology, Featured Speaker  
Minimally invasive techniques for implant site development

2018 EuroPerio Amsterdam, The Netherlands  
Is gingivitis during pregnancy inevitable?

International Resident Periodontics Symposium, Texas A&M College of Dentistry  
Interactive session: The future of Periodontology

Graduate Periodontics Departments of:

Universidad de Guadalajara, Guadalajara, Jalisco, México

Universidad Quetzalcóatl Irapuato, Irapuato, León, México

Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, México

Universidad de Panamá, Ciudad de Panamá, Panamá

Texas A&M University College of Dentistry Dallas, Texas, U.S.A.

47th annual Arthur H. Merritt Memorial Lecturer, Texas A&M College of Dentistry

### **C. Invited Workshops**

1996 Academy of Osseointegration -- Consensus Conference on Sinus Grafts, Boston MA

"Radiographic Analysis of Sinusgrafts and implant placement. Preliminary results."

- 1998 PEW Round Table on Higher Education, UAB
- 1998 Session Chair, AADR, Implantology Research Group, Minneapolis, MN
- 2000 Alabama State Task Force on Osteoporosis Prevention, Montgomery, AL  
Planning Meeting Dental Representative
- 2001 American Academy of Periodontology Annual Meeting, Philadelphia PA  
Predoctoral Program Directors Meeting  
"Outcomes Assessment in Periodontal Education"
- 2004 ADEA Summit on Dental implant education, Tucson AZ
- 2009 American Academy of Periodontology Postdoc educator's workshop: "Recruitment of Residents"
- 2015 American Academy of Periodontology Predoctoral Educators Workshop:  
Periodontology Leading Implant Education Now And In The Future, Orlando FL
- 2015 Wellness, Health and Society Meeting, Universidad de Alcala de Henares, Spain
- 2017 AAP World Workshop on Classification of Perio and Peri-implant Diseases and Conditions, Chicago IL

#### **D. Invited continuing education lectures**

- 1996 Academy of General Dentistry Group III: "Implant Dentistry -- Surgical Overview",  
UAB CE, Birmingham, AL  
  
Academy of General Dentistry Group V: "Implant Dentistry -- Surgical Overview",  
UAB CE, Birmingham, AL  
  
"Current Concepts in Periodontics for the Dental Hygienist", UAB CE, Birmingham, AL  
  
"Diabetes and Periodontics" Lecture for the Birmingham Diabetic Patients Support  
Group , Birmingham, AL
- 1998 "Current Concepts in Periodontics for the Dental Hygienist", UAB CE, Birmingham, AL  
  
Mastership in General Dentistry, Periodontology I, UAB CE, Birmingham, AL  
  
"Periodontal Instrumentation: Hands-on course", UAB CE, Birmingham, AL  
  
Mastership in General Dentistry, Periodontology II, UAB CE, Birmingham, AL

- “Implant Maintenance” UAB CE, Birmingham, AL
- “Esthetic Periodontics in Support of the Restorative Dentist” Birmingham Society of Advanced Dentistry, Birmingham, AL
- “Esthetic Periodontal Considerations” Dental Society in Montgomery, AL
- “Current Concepts in Periodontology” Alabama Fifth District Dental Society Annual Meeting, Gadsden, AL
- Judge, Science Fare, Our Lady of the Valley School, Birmingham AL
- 1999 “Basic Periodontal Therapy for the Dental Hygienist-A Hands-On Course”, UAB CE, Birmingham, AL
- “Sinus Lift for Implant Placement-A Hands-On Course”, UAB CE, Birmingham, AL
- 2000 “Current Concepts in Periodontology for the Dental Hygienist” UAB CE, Birmingham, AL
- “Current Concepts in Periodontology for the Dental Hygienist” Alabama Dental Association District 3, Dothan, AL
- “Current Concepts in Periodontology for the Dental Hygienist” Alabama Dental Association District 9, Opelika, AL
- 2001 Mastership in General Dentistry, Periodontology, UAB CE, Birmingham, AL
- “Periodontitis and Osteoporosis” National Satellite Program on Women’s Health Issues, Alabama Department of Public Health, Montgomery, AL
- “Periodontal Diseases and Systemic Health”, Montgomery, AL
- “Adjunctive Therapy in Periodontology” Advanced General Dentistry Meeting, Albany, GA
- 2002 Mastership in General Dentistry, Periodontology, UAB CE, Birmingham, AL
- “Current Concepts in Periodontology” 8<sup>th</sup> District Dental Society Meeting, Huntsville AL
- “Periodontal Diseases and Systemic Health” Idaho Falls Dental Society, Idaho Falls, ID
- 2003 “Current Concepts in Periodontology” 3<sup>rd</sup> District Dental Society, Dothan AL
- “Current Concepts in Periodontology” Virginia Beach Study Club, VA

- 2005 “Current Concepts in Periodontology” 3<sup>rd</sup> District Dental Society, Dothan AL  
 “Current Concepts in Periodontology” Montgomery AL
- 2007 “Esthetic periodontics”, “Hard tissue site development” 5<sup>th</sup> District Dental Society, Gadsden AL  
 “Current Concepts in Periodontology” Columbus, MS  
 “A Hands-On Course in Implant Surgery and Prosthodontics” UAB Continuing Dental Education Zimmer Course, San Diego, CA.
- 2008 “Current concepts in Periodontology” UAB CE, Birmingham, AL  
 “Esthetic Periodontology in support of the restoring dentist: Implant Site Development” Middle Bay Study Club, Mobile, AL  
 “Esthetic Periodontics in support of the general dentist” 2<sup>nd</sup> District Dental Society, Montgomery, AL  
 “Current Concepts in Periodontology” Jackson, TN  
 “A Hands-On Course in Implant Surgery and Prosthodontics” UAB Continuing Dental Education Zimmer Course, San Diego, CA.
- 2009 "Introduction to Implant Dentistry" UAB CE, Birmingham, AL  
 “Narrow Diameter Implants” Oss, The Netherlands, Dental Select Clinic  
 “Allografts for the use in oral regeneration” Maarne, The Netherlands: Edin Study Club:  
 "Introduction to Implant Dentistry", UAB CE, Huntsville, AL  
 “Esthetic Periodontology in support of the general dentist, Periodontal disease and systemic health” Alabama Sixth District Dental Society meeting, Tuscaloosa, AL  
 “Current Concepts in Periodontology” Alabama 5th District Dental Society meeting, Gadsden, AL  
 "Introduction to Implant Dentistry", UAB CE, Nashville, TN  
 "Introduction to Implant Dentistry" UAB CE, Atlanta, GA  
 “Implant Maintenance” Meridian, MS Dental Society:



- 2010 “A hands-on course in basic implant surgery and prosthodontics” UAB CE Zimmer simulation lab, Parsippany, NJ
- “A Hands-On Course in Implant Surgery and Prosthodontics” UAB CE Zimmer Course, San Diego, CA.
- “Current concepts in periodontology” Meridian, MS Hygiene Study Club
- 2011 Surgical assisting for the dental assistant. UAB CE, Birmingham, AL
- Current Concepts in Periodontology. UAB CE, Birmingham, AL
- 1st Annual Alabama Implant Symposium, UAB CE, Birmingham, AL
- “Successful techniques for the creation of soft tissue health and esthetics”, Rotterdam and Drachten, The Netherlands
- “Successful techniques for the creation of soft tissue health and esthetics”. Amsterdam, Zwolle, Utrecht and Breda, The Netherlands
- 2012 “Current Concepts in Periodontology” UAB CE, Birmingham, AL
- “Implant Site Development”, “Peri-implantitis” ALDA annual meeting. Destin FL
- “Soft and Hard Tissue Grafting Techniques for Implants in the Esthetic Zone for Improved Outcomes” 2<sup>nd</sup> Annual Alabama Implant Symposium, UAB CE, Birmingham, AL
- “Peri-implantitis” Noord Hollandse Vereniging van Tandartsen, The Netherlands
- “Advanced Bone Grafting: A Cadaver Course”. UAB CE Zimmer Institute, Parsippany, NJ
- 2013 “Advanced Bone Grafting” BioHorizons Hands-on Birmingham, AL
- “Periodontal Inflammation and Systemic Health: What do you tell your patients?” Anchorage, AK
- "Introduction to Implant Dentistry", UAB CE, Birmingham, AL
- “Comprehensive Clinical Periodontics for the General Practice” Concord and Portsmouth, NH
- 2014 “Successful techniques for the creation of soft tissue health and esthetics” Portland and Eugene, OR

- “Bisphosphonates and dental implants” 4th Annual Alabama Implant Symposium, UAB CE, Birmingham, AL
- “Comprehensive Clinical Periodontics for the General Practice”, Fairmont Springs, MT
- 2015 “Comprehensive Clinical Periodontics for the General Practice” Bar Harbor and Portland, ME
- “Comprehensive Clinical Periodontics for the General Practice” Atlanta and Savannah, GA
- “Comprehensive Clinical Periodontics for the General Practice” Baltimore MD and Harrisburg PA
- “Current Concepts in Periodontology” UAB CE, Birmingham, AL
- “Current Concepts in Periodontology” 3<sup>rd</sup> District, Dothan AL
- “Comprehensive Clinical Periodontics for the General Practice”, Charlotte NC and Greensboro NC
- Sinusgraft Hands-On Cadaver course, 5<sup>th</sup> Annual Alabama Implant Symposium, UAB CE, Birmingham, AL
- 2015 “Comprehensive Clinical Periodontics for the General Practice” Charlotte and Greensboro NC
- “Comprehensive Clinical Periodontics for the General Practice” Las Vegas NV and Phoenix AZ
- 2016 “Comprehensive Clinical Periodontics for the General Practice”, Grand Rapids and Kalamazoo MI
- “Comprehensive Clinical Periodontics for the General Practice” Saratoga Springs and Syracuse, NY
- “Current Concepts in Periodontology” UAB CE, Birmingham, AL
- “Comprehensive Clinical Periodontics for the General Practice”, Portland, ME, Portsmouth and Nashua, NH
- “Comprehensive Clinical Periodontics for the General Practice” Pittsburg and Cleveland, OH
- “Comprehensive Clinical Periodontics for the General Practice” Las Vegas and Reno NV

- 2017 “Comprehensive Clinical Periodontics for the General Practice”, Ann Arbor, Battle Creek, and Lansing MI
- “Diagnosis, Prevention and Treatment of Dental Implants” UAB CE, Tuscaloosa, AL
- “Comprehensive Clinical Periodontics for the General Practice”, Stockton and Sacramento CA
- “Comprehensive Clinical Periodontics for the General Practice”, Cincinnati and Columbus, OH
- “Comprehensive Clinical Periodontics for the General Practice”, Dallas, Austin, and San Antonio, TX
- “Comprehensive Clinical Periodontics for the General Practice”, Atlanta GA and Chattanooga, TN
- “Current Concepts in Periodontology” UAB CE, Birmingham, AL
- 2018 “Periodontal Inflammation and Systemic Health: What do you tell your patients?” Fredericksburg, VA
- “Diagnosis, Prevention and Treatment of Dental Implants” Hot Springs AR
- “Comprehensive Clinical Periodontics for the General Practice” Phoenix AZ and Las Vegas NV
- “Comprehensive Clinical Periodontics for the General Practice” Voorhees, NJ and Lancaster, PA