

**Application for  
Recognition as an  
Interest Area in General Dentistry**

Council on Dental Education and Licensure  
American Dental Association  
211 East Chicago Avenue  
Chicago, Illinois 60611  
2011



## **Introduction**

This application specifies the information that must be submitted to the American Dental Association's Council on Dental Education and Licensure by those seeking initial recognition as an interest area in general dentistry. A completed application including a \$3,000 application fee must be submitted by the June 1 annual deadline to constitute a formal request for Council review of the proposed interest area in general dentistry. The Council will consider only fully completed applications.

## **Background information**

The *Constitution and Bylaws* of the Association delegate to the Council on Dental Education and Licensure the authority to study and make recommendations on the recognition of interest areas in general dentistry. The Association's House of Delegates makes the final decision to grant or deny this recognition. In addition, the House of Delegates approves *Criteria for Recognition of Interest Areas in General Dentistry*. Applicants for recognition must demonstrate compliance with the five criteria for recognition in order to be granted recognition as an interest area in general dentistry. This application outlines the process by which interest areas in general dentistry are recognized and identifies the criteria that must be satisfied in order to achieve recognition by the ADA.

It should be noted that the *Criteria* pertain only to the recognition of interest areas in general dentistry. The Association's policies regarding ethical announcement of interest areas in general dentistry and limitation of practice by individual practitioners are contained in its *Principles of Ethics and Code of Professional Conduct*.

## The Recognition Process

Upon receipt of an application, the Council Chair and staff screen the application to determine whether all sections have been completed and all appendices referenced in the document have been included. Receipt of a completed application will be acknowledged by letter. Applications that are not fully completed will be returned to the sponsor with notification about suitable modifications. The review process includes opportunities for comments on the application by the profession, as well as committee review, prior to consideration by the Council.

### Review Procedures

The Council will place a notice in the *ADA News* advising the profession of submission of the application and inviting comment. In addition, the following organizations will be notified in writing of receipt of the application:

- \* ADA Constituent and Component Dental Societies
- \* American Dental Education Association
- \* American Association of Dental Boards
- \* Academy of General Dentistry
- \* Organizations Representing the ADA Recognized Dental Specialties

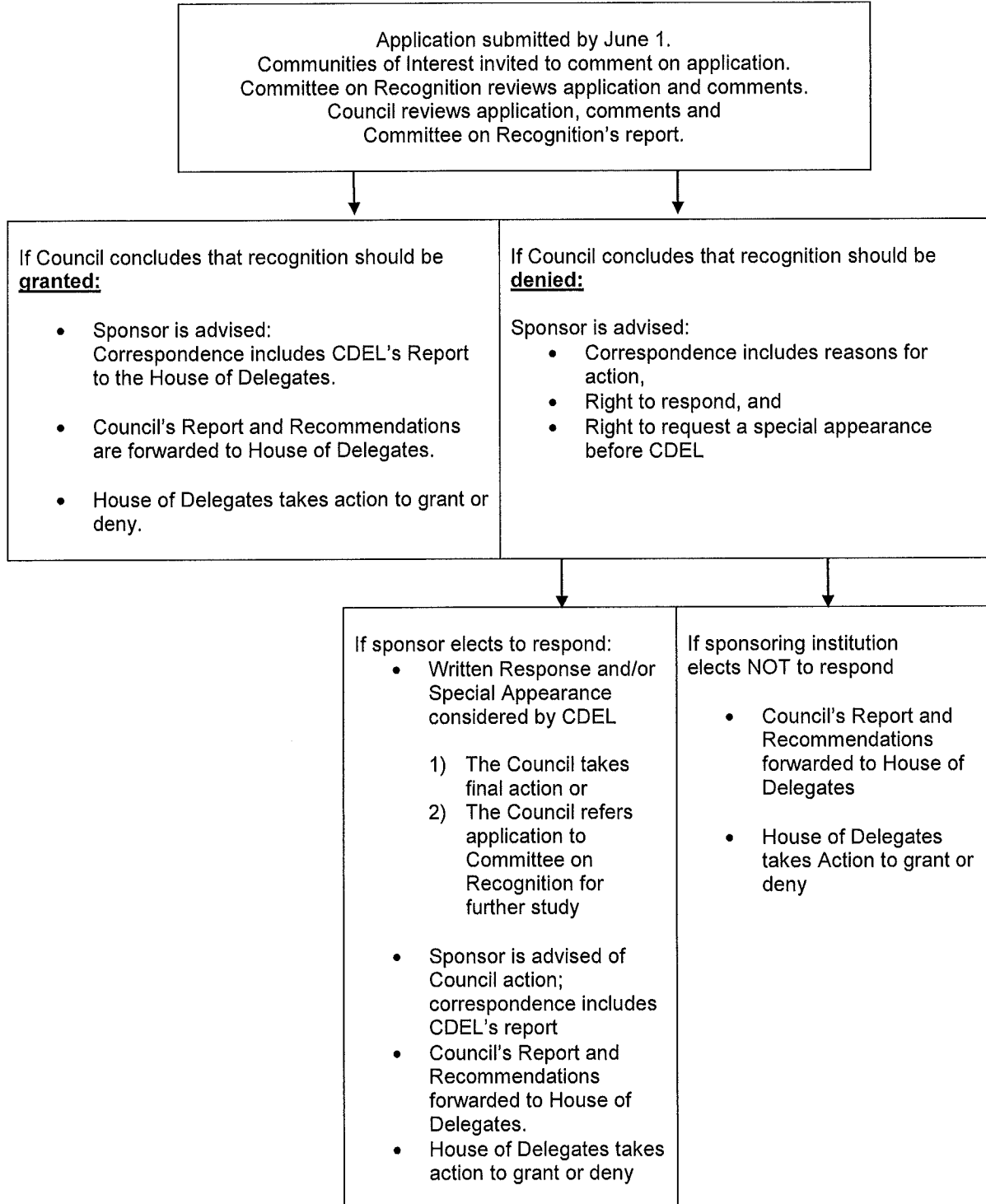
Copies of the application and appendices may be obtained by the communities of interest.

The completed application and comments submitted by the specified deadline will be considered first by the Council's Standing Committee on Recognition of Dental Specialties and General Dentistry Interest Areas. The Committee determines its recommendation following in-depth review and discussion of all information provided. Following a comprehensive review of the application, the written comments and the report of the Committee on Recognition, the Council determines its recommendation to grant or deny recognition of the general dentistry interest area. If the Council determines that the applicant has demonstrated compliance with the five criteria for recognition, it will recommend granting recognition by the Association's House of Delegates. In addition, it will advise the sponsor and the House of its recommendation and reasons for its recommendation.

If the Council recommends denying recognition, the sponsor is advised of (1) the recommendation and reasons for the recommendation; (2) the sponsor's right to submit a response to the Council's report; and (3) the sponsor's right to a special appearance before the Council to supplement its written response. If the sponsor elects not to respond within the prescribed timeframe, the Council will transmit its detailed report and resolution to the Association's House of Delegates for final action. Resolutions transmitted to the Association's House of Delegates are also considered by the ADA Board of Trustees. In its consideration of a resolution, the House is also advised of the Board's comment and recommendation on the resolution.

If the sponsor elects to respond, the Council will take into consideration the sponsor's written response, as well as information provided during a special appearance, before making its final decision. If the applicant provides extensive new information in its written response or during the special appearance, the Council can elect to refer the application to the Committee on Recognition for further study. The Council's recommendation for recognition or denial of recognition will then be transmitted through the ADA Board of Trustees to the House of Delegates for final action. The following diagram summarizes the steps in the recognition process.

## RECOGNITION PROCESS FOR INTEREST AREAS IN GENERAL DENTISTRY





## Application Instructions

### General:

The Application for Recognition is structured to collect specific qualitative and quantitative information that will assist the Council on Dental Education and Licensure in determining the extent to which the general dentistry interest area meets the established criteria for recognition.

### Format:

The completed application should be in a format provided. Each section of the application should be clearly labeled and the heading and numerical designations of each question indicated. A narrative response with supporting documentation should be provided in response to each question.

Where such documentation is provided, it should be referenced at the end of the narrative statement, clearly labeled and appended to the application. The *Application* is available upon request from the Council office (800) 621-8099, ext. 2698.

### Responses:

The applicant is expected to respond to all specific requests for information. Responses to sections labeled "Other Information" are optional. Individuals responsible for completing the application should review the entire document carefully before completing any part of it as well as the. It is not necessary to repeat at length information that can be found elsewhere in the document; cross-referencing information is encouraged.

Some sections of the application request quantitative information. The source of any data provided should be indicated. Estimates may be provided in these sections if definitive statistics are not available, but must include a measure of reliability. However, estimates should be clearly identified and the method for arriving at the estimates should be explained.

### Procedures for Reapplication:

If an applicant withdraws from the process or is denied recognition as a general dentistry interest area:

1. A new application may not be submitted until **24 months** after final action on the application has been taken by the House of Delegates or, in the event of voluntary withdrawal, 24 months from the time that action would have been taken by the House of Delegates if the application had not been withdrawn.
2. Resubmission of the application must be in its entirety, including the \$3,000 application fee. The applicant is responsible for highlighting new and/or clarifying information since the time of previous submission. Further, the information submitted should address deficiencies noted at the time the application was denied/withdrawn.
3. A revised application will be considered in its entirety as a complete or new application and will include consideration of all sections, not just those sections previously found to be in non-compliance.

**Submission of the Completed Application**

The completed electronic application and a \$3,000.00 check made payable to the American Dental Association should be submitted by June 1. Additionally, please complete the Permission to Publish form (page 10) and all materials must be submitted to:

Director  
Council on Dental Education and Licensure  
American Dental Association  
211 E. Chicago Avenue  
Chicago, Illinois 60611

Council staff members are available to answer questions regarding this application and can be reached on the Association's toll-free number: 1(800) 621-8099, ext. 2698

**ADA American Dental Association<sup>®</sup>**

America's leading advocate for oral health

**Application**

**APPLICATION FOR RECOGNITION OF  
Operative Dentistry**

(as an Interest Area in General Dentistry)

Application submitted by:

The Academy of Operative Dentistry

(sponsor)

P.O. Box 25637, Los Angeles, CA 90025

(address)



(Signature)

Dr. Gordon K. Jones 847-688-2100 ext. 80314

(contact person) (phone number)

1541 N. McKinley Road, Lake Forest, IL 60045

(address)

gordon.jones@med.navy.mil; gjones1541@sbcglobal.net

(email address)

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(date of submission)

Material provided in the application for recognition as an interest area in general dentistry contains statements that represent conclusions of the applicant. Recognition of an interest area in general dentistry by the American Dental Association is based on compliance with established *Criteria* and does not imply concurrence with all of the statements presented in the application.

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**APPLICATION FOR RECOGNITION  
AS AN INTEREST AREA IN GENERAL DENTISTRY**

**Criteria for Recognition of Interest Areas in General Dentistry**

1. **An interest area in general dentistry must be a well-defined body of established evidence-based scientific and clinical dental knowledge underlying the general dentistry area - knowledge that is in large part distinct from, or more detailed than, that of other areas of general dentistry education and practice and any of the ADA recognized specialties.**

- a. Provide a definition and scope of the general dentistry area

Definition: Operative Dentistry is that area of general dentistry concerned with treatment of diseases and/or defects of the hard tissues of teeth, specifically the restoration of the form, function, and esthetics of those hard tissues. The hard tissues of teeth may become defective through disease, trauma, or abnormal development, and operative dentistry is that aspect of general dentistry devoted to the restoration of those tissues to a state of function, health, and esthetics. It includes the prevention, diagnosis, biology, and mechanical and pharmacologic treatment of diseases and defects of hard tooth tissues, as well as material and instrument science and application used in that treatment. Based on the definition in Mosby's Medical Dictionary, 8th edition. © 2009, Elsevier.

Scope: In the Federal Government's Privilege Management Categories, Operative Dentistry is assigned its own category, described as: "**P390654**: The scope of privileges in operative dentistry includes the ability to evaluate, diagnose, consult, treat and prevent diseases or trauma to teeth. Operative dentists treat patients of all ages with dental caries, malformed, worn, discolored or fractured teeth with the goal of restoring proper tooth morphology, function, esthetics and harmonious relationship with the surrounding tissues. Operative dentists may assess, stabilize, and determine disposition of patients with dental diseases and replace or repair existing restorations." See Tab 1, Exhibit A.

- b. Provide educational goals and objectives of the general dentistry area

Operative Dentistry residents will have:

- Advanced knowledge and expertise in operative dentistry, restorative dental materials, periodontics, endodontics, occlusion, and implantology, well beyond the level of a dental school graduate.
- Extensive clinical experience and expertise in restorative procedures.
- The expertise to treat patients with advanced stages of oral and dental disease and/or compromised health.
- The ability to function effectively within interdisciplinary health-care teams.
- The ability to apply scientific principles to learning and oral health-care. This includes using critical thinking, evidence or outcomes-based clinical decision-making, and technology-based information retrieval systems.

- Knowledge of educational theory and techniques and the teaching skills required to teach at the pre-doctoral level.
  - A working knowledge of scientific methodology and research design and methodology.
  - Research experience to meet a thesis requirement that can be submitted for publication in the dental literature.
  - An appreciation of the values of professional ethics, lifelong learning, patient centered care, adaptability, and acceptance of cultural diversity in professional practice.
  - An understanding of the oral health needs of communities and engage in community service.
- c. Provide the competency and proficiency statements for the general dentistry education area.

In addition to being proficient in procedures common to all general dentists such as:

- Preliminary diagnosis, initial treatment, or stabilization of oral and dental manifestations of systemic disease
- Management of odontogenic infections and diseases through pharmacologic and surgical means
- Preventive dentistry services
- Local and regional anesthesia
- Restorative dentistry, including routine inlays, onlays, amalgams, composites, bonding, veneers, and pin or post retention, internal and external bleaching of discolored teeth
- Endodontics, including pulp caps, pulpotomy, pulpectomy, apexification and apexogenesis, uncomplicated, nonsurgical root canal therapy for permanent teeth,
- Limited occlusal adjustment
- Periodontics, including provisional splinting, occlusal splinting, root planning, gingivectomy, gingivoplasty, gingival curettage
- Removeable Prosthodontics, including complete or partial dentures: new, relines, rebase, repair, immediate (uncomplicated)
- Fixed Prosthodontics, including crowns, retainers, and pontics (uncomplicated) not increasing the vertical dimension of occlusion, post and core procedures, resin-bonded fixed partial denture
- Tooth extraction (routine) including vertical or mesioangular, high partially encapsulated third molars
- Oral Surgery, including Tooth extraction (including fully-encapsulated third molars not requiring sectioning or bone removal), alveoloplasty concurrent with extractions, repair traumatic wounds (less than 2 cm and not crossing vermilion border), post-trauma replantation, soft tissue excision/biopsy, foreign body removal in the treatment of acute trauma, osteitis and pericoronitis treatment
- Orthodontics including space maintenance, removable and fixed orthodontic appliances to effect minor tooth movement or habit correction
- Minimal Sedation/Anxiolysis inhalation sedation with nitrous oxide/oxygen (single agent).
- Photography particularly regarding intraoral records of treatment cases for professional presentations to peers
- Radiology, involving hard and soft tissue craniofacial imaging modalities, including MRI, tomography, and digital imaging

Operative dentists are proficient in:

- Direct compacted gold restorations
- Indirect cast gold restorations
- Complex restoration of severely broken down teeth
- Full veneer ceramic restorations, as well as ceramic inlays and onlays
- CAD/CAM restorations
- Crown, retainer, and pontic services including increasing the vertical dimension of occlusion
- Occlusal adjustment (complete)
- Hawley appliances
- Resin-bonded fixed partial denture

Operative dentists are competent in:

- Nonsurgical management of temporomandibular disorders
- Prosthetic restoration of dental implants (limited to single tooth restorations)
- Maintenance of dental implants (to include insertion and removal of implant restorations)
- Hemisection, bicuspidization, and root amputation of endodontically treated teeth.

- d. Describe how scientific dental knowledge in the area is substantive and distinct from other general dentistry areas

The body of scientific dental knowledge in operative dentistry includes the prevention, diagnosis, biology, and mechanical and pharmacologic etiology and treatment of diseases and defects of hard tooth tissues, as well as material and instrument science, and applications used in that treatment. This includes CAD/CAM technology, clinical techniques, materials, and restorations, as well as implant restoration. Entire textbooks and journals are devoted to operative dentistry, restoration of implants, restorative dental materials, CAD/CAM dentistry, cariology, preventive dentistry, occlusion, and oral physiology, to name just some areas in which operative dentists must be conversant. While general dentists must have some knowledge in each of these areas, and some specialists may have equivalent knowledge in some (prosthodontists and occlusion, for example), only the operative dentist has the depth of knowledge in each of them to treat the most complex restorative cases and to teach operative dentistry in our dental schools.

The journal of the Academy of Operative Dentistry, Operative Dentistry, has an international subscription list and received over 505 papers in 2012 from all points of the globe. It is rigorously peer reviewed by an Editorial Board made up of over 150 of the pre-eminent educators, textbook authors, researchers, certification board members, and other subject matter experts in the area, and only 80 (15%) of the articles that were submitted in 2012 were printed. It is considered to be an essential publication in all dental libraries. See Tab 1. Exhibit B.

There are 7 graduate programs in Operative Dentistry in ADA CODA accredited dental schools in the United States: Boston University, Indiana University, NOVA Southeastern University, the University of Iowa, the University of Michigan, the University of North Carolina, and the University of California at Los Angeles. See Tab 3.

- e. Provide any other information that demonstrates compliance with this requirement.

According to the American Dental Education Association (ADEA), in the 2008-9 academic year, there were 275 unfilled faculty positions. 48 (14%) of those vacancies were in the

discipline of “Operative/Restorative Dentistry.” This was the largest group of unfilled positions after “Other,” and larger than any specialty or other interest area of general dentistry.

The Departments of Defense and Health and Human Services recognize Operative Dentistry as a unique area of dentistry, whose members are eligible for “Board Certification Equivalency Pay” if employed in those Departments. This is a Special Pay designed to provide a financial retention incentive for fully trained (at least 2 years) American Board of Operative Dentistry Certified Federal Services dentists that is equal to the Special Pays available to board certified dental specialists. This Special Pay is evidence that the federal government recognizes Operative Dentistry as being on a par with other unique areas of dentistry that have advanced levels of training and board certification. In the past, the ADA lobbied in support of this Special Pay. In addition, there are specific privileges assigned as core and supplemental privileges for Operative Dentists in the military. See Tab 1. Exhibit C.

The Postdoctoral Application Support Service (PASS) considers operative dentistry to be a category of programs along with ADA recognized specialty areas. See Tab 1, Exhibit D.



2. **The body of knowledge is sufficient to educate individuals in a distinct advanced education area of general dentistry, not merely one or more techniques.**

- a. Identify the distinct components of biomedical, behavioral and clinical science in the advanced education area

Biomedical Components:

The physical, chemical, and esthetic properties of restorative dental materials.  
The physical, chemical, and physiologic properties of hard tooth structures.  
The interface between hard tooth tissues and bone and soft tissues of the oral cavity.  
Restorative Dental Materials  
Cariology  
Microbiology  
Bio-mechanics  
Optics  
Chemistry  
Mineralogy  
Radiology

Behavioral Components

Ethics  
Psychology  
Moral Sensitivity  
Moral Reasoning  
Moral Integrity  
Moral Courage

Clinical Science Components

Caries Diagnosis  
Caries Prevention  
Caries Treatment  
Longevity of Various Restorations  
Preventive Dentistry  
Health Promotion  
Dental/Oral Esthetics  
Occlusion  
Epidemiology

- b. Describe why this area of knowledge is a distinct education area of general dentistry, rather than a series of just one or more techniques

Operative Dentistry is a distinct and separate field of knowledge because there are areas of operative dentistry that are unique and not taught by any other academic discipline of dentistry. Some examples are:

The etiology, microbiology, prevention and treatment of dental caries  
The etiology and treatment of developmental defects in hard tooth structures  
The treatment of trauma to the hard tissues of teeth  
The material dependent design of preparations for direct dental restorations  
The physical, chemical, and esthetic properties of restorative materials  
The physical, chemical, and physiologic properties of hard tooth structures  
The interface between hard tooth tissues and bone and soft tissues of the oral cavity  
The use of CAD/CAM technology for the restoration of teeth with inlays and onlays  
Dental esthetics with direct and indirect restorative materials  
Adhesive dentistry

Operative Dentistry is specifically focused upon one component of the masticatory system: the hard tissues of the teeth. The general dentist must be able to prevent, diagnose and treat, to the level of his or her competency, diseases and defects of all tissues of the masticatory system. But:

1. There is a small population of dentists with advanced training and experience who have been deemed capable of teaching, conducting research, developing materials, and providing expert advice in the restoration of hard tooth structure to form, function and esthetics. See Tab 2, Exhibit A
  2. There are academic units dedicated to teaching Operative Dentistry in almost every dental school. See Tab 2. Exhibit B.
  3. There are Specialty Advisors in Operative Dentistry in Federal Dental Services.
  4. There are textbooks and journals devoted to Operative Dentistry. See Section 2.d.
  5. There are sections in dental libraries devoted to Operative Dentistry.
  6. There are over 80 dentists in the world who have been certified by an examining board as having a superior proficiency in Operative Dentistry. See Tab 2. Exhibit C.
  7. There are hundreds of dentists with a Masters Degree in Operative or Restorative Dentistry.
- c. Provide documentation demonstrating that the body of knowledge is unique and distinct from that in other education areas accredited by the Commission on Dental Accreditation

There are ADEA Curriculum Guidelines for Postdoctoral Operative Dentistry programs.(J Dent Educ 1993 57:832-836)

See section 3.b. for examples of operative dentistry curricula. In these examples, there are mixes of course work that are drawn from other disciplines but, as a set of courses, are not found in any other discipline. There is also a consistent, unique thread of coursework that is common to all operative dentistry programs, restorative dental materials and cariology/microbiology, for example, that are not found in any other disciplines.

- d. Provide documentation of the complexity of the body of knowledge of the general dentistry area by identifying specific advanced techniques and procedures, representative samples of curricula from existing programs, textbooks and journals

Advanced techniques and procedures specific to operative dentistry include:

- Direct compacted gold restorations
- Indirect cast gold restorations
- Complex restoration of severely broken down teeth
- Complex direct esthetic restorations with resin composites and ceramics
- Full veneer resin composite and ceramic restorations
- Ceramic inlays and onlays
- CAD/CAM restorations
- Crown, retainer, and pontic services including increasing the vertical dimension of occlusion
- Occlusal adjustment (complete)
- Hawley appliances
- Resin-bonded fixed partial dentures
- Nonsurgical management of temporomandibular disorders
- Prosthetic restoration of dental implants
- Maintenance of dental implants
- Hemisection, bicuspidization, and root amputation of endodontically treated teeth.

See Item 3.b. for curricula from existing operative dentistry programs.

Textbooks currently in print in English specific to operative dentistry include, but are not limited to:

Pickard's Manual of Operative Dentistry by Avijit Banerjee and Timothy F. Watson, Oxford University Press, Incorporated (Mar 8, 2011) - ISBN-10: **0199579156**

Contemporary Esthetic Dentistry, 1<sup>st</sup> Edition by George A. Freedman DDS BSc DCS HSL (Author) January 2, 2012 - ISBN-10: **0323068952**

Sturdevant's Art and Science of Operative Dentistry, 6<sup>th</sup> Edition by Harald O. Heymann DDS MEd (Author), Edward J. Swift Jr. DMD MS (Author), Andre V. Ritter DDS MS (Author) (May 7, 2012) - ISBN-10: **0323083331**

Management of Temporomandibular Disorders and Occlusion, 7<sup>th</sup> Edition by Jeffrey P. Okeson DMD (Author) (June 4, 2012) - ISBN-10: **0323082203**

Restorative Dentistry, 1<sup>st</sup> Edition by Italian Ac (Jun 2, 2011) - ISBN-10: **0323075886**

Craig's Restorative Dental Materials, 13<sup>th</sup> Edition by Ronald L. Sakaguchi DDS PhD MS MBA (Author), John M. Powers PhD (Author) (Oct 19, 2011) - ISBN-10: **0323081088**

Advanced Operative Dentistry: A Practical Approach, 1<sup>st</sup> Edition by David Ricketts BDS Hons MSc Dist PhD FDS RCS (Eng) FDS Rest Dent FDS RCPS (Glas) FHEA and David W. Bartlett BDS PhD (Jul 11, 2013) - ISBN-10: **0702055387**

Textbook of Operative Dentistry, 3<sup>rd</sup> Edition by Lloyd Baum DMD MS, Ralph W. Phillips MS DSc and Melvin R. Lund DMD MS (Jan 15, 1995) January 15, 1995 - ISBN-10: **0721634842**

Comprehensive Preventive Dentistry by Hardy Limeback (Editor) (July 10, 2012) - ISBN-10: **0813821681**

Clinical Cases in Restorative and Reconstructive Dentistry by Gregory J. Tarantola DDS (Sep 7, 2010) - ISBN-10: **0813815649**

Operative Dentistry (Test Your Knowledge Series) by Jack Rudman (Jan 1, 2012) ISBN-10: **0837370892**

Esthetic and Restorative Dentistry: Material Selection and Technique, Second Edition by Douglas A. Terry and Willi Geller (Jan 21, 2013) - ISBN-10: **0867155736**

Successful Local Anesthesia for Restorative Dentistry and Endodontics by Al Reader, John Nusstein and Melissa Drum (Oct 1, 2011) - ISBN-10: **0867155132**

Advances in Operative Dentistry: Volume 1: Contemporary Clinical Practice by Jean-Francois Roulet, Massimo Fuzzi and Nairn H. F. Wilson (Aug 15, 2001) - ISBN-10: **0867154020**

Advances in Operative Dentistry, Volume 2: Challenges of the Future by Jean-Francois Roulet, Massimo Fuzzi, and Nairn H.F. Wilson (Oct 15, 2001) - ISBN-10: **0867154039**

Fundamentals of Operative Dentistry: A Contemporary Approach by James B. Summitt (Author, Editor), J. William Robbins (Editor), Thomas J. Hilton (Editor), Richard S. Schwartz (Editor), Jose Dos Santos Jr. (Editor) (2006) - ISBN-10: **0867154527**

Operative Dentistry Modern Theory and Practice (Ishiyaku Euramerica Dental Series) by M. A. Marzouk, A. L. Simonton and R. D. Gross (Apr 1985) - ISBN-10: **0912791152**

Dental Caries: The Disease and Its Clinical Management by Ole Fejerskov and Edwina Kidd (Apr 7, 2008) - ISBN-10: **1405138890**

Principles of Operative Dentistry by A. J. E. Qualtrough, Julian Satterthwaite, Leean Morrow and Paul Brunton (Apr 29, 2005) - ISBN-10: **1405118210**

Incipient and Hidden Caries, An Issue of Dental Clinics (The Clinics: Dentistry) by Daniel W. Boston DMD (Jan 2, 2006) - ISBN-10: **1416028226**

Phillips' Science of Dental Materials, 12<sup>th</sup> Edition by Kenneth J. Anusavice DMD PhD (Author) (October 11, 2012) - ISBN-10: **1437724183**

Dental Radiography: Principles and Techniques, 4<sup>th</sup> Edition by Joen Iannucci DDS MS (Author), Laura Jansen Howerton RDH MS (Author) (March 29, 2011) - ISBN-10: **1437711626**

Woelfel's Dental Anatomy: Its Relevance to Dentistry by Rickne C. Scheid DDS MEd (Author), Gabriela Weiss DDS (Author) (January 4, 2011) - ISBN-10: **1608317463**

Dental Materials in Operative Dentistry (Quintessentials of Dental Practice) by Christina A. Mitchell, Nairn H. F. Wilson and Paul A. Brunton (Apr 30, 2008) – ISBN-10: **1850971293**

Successful Posterior Composites by Christopher D. Lynch - Quintessence Publishing Company, Incorporated (2008) – ISBN-10: **185097120X**  
Indirect Restorations (Quintessentials of Dental Practice) by David Bartlett (Author), David Ricketts (Author) (March 1, 2007) - ISBN-10: **1850970785**

Minimally Invasive Dentistry: The Management of Caries by Nairn H. F. Wilson (Jan 31, 2004) - ISBN-10: **1850971056**

Decision-Making in Operative Dentistry (Quintessentials of Dental Practice) by Paul A. Brunton (Dec 2002) - ISBN-10: **1850970572**

A Textbook of Operative Dentistry by Samuel Akpata (Aug 1, 1996) ISBN-10: **1872362605**

Operative Dentistry: A Practical Guide to Recent Innovations by Hugh Devlin (May 11, 2006) - ISBN-10: **3540296166**

Textbook of Operative Dentistry by Sikri Vimal K. (Author) (January 1, 2012) - ISBN-10: **8123915942**

Textbook of Operative Dentistry by S. Chandra and G. Chandra (May 30, 2008) - ISBN-10: **8180618935**

Essentials of Operative Dentistry by I. Anand, Ph.D. Sherwood and L. Lakshmi Narayanan (Sep 2010) - ISBN-10: **8184487797**

Textbook of Operative Dentistry by Nisha Garg , Neelam Mittal (Editor), January 31, 2013 - ISBN-10: **9350259397**

Refereed journals specific to all or some aspects of operative dentistry (with descriptions quoted from their own websites) include:

#### Operative Dentistry

“...publishes articles that advance the practice of operative dentistry. The scope of the journal includes conservation and restoration of teeth; the scientific foundation of operative dental therapy; dental materials; dental education; and the social, political, and economic aspects of dental practice. Review papers, book reviews, letters and classified ads for faculty positions are also published.”

#### Journal of Dentistry

“...is the leading international dental journal within the field of Restorative Dentistry. Placing an emphasis on publishing novel and high-quality research papers, the Journal aims to influence the practice of dentistry at clinician, research, industry and policy-maker level on an international basis.”

#### Caries Research

“... publishes epidemiological, clinical and laboratory studies in dental caries, erosion and related dental diseases. Some studies build on the considerable advances already made in caries prevention, e.g. through fluoride application. Some aim to improve understanding of the increasingly important problem of dental erosion and the associated tooth wear process. Others monitor the changing pattern of caries in different populations, explore improved methods of diagnosis or evaluate methods of prevention or treatment. The broad coverage of current research has given the journal an international reputation as an indispensable source for both basic scientists and clinicians engaged in understanding, investigating and preventing dental disease.”

#### Dental Materials

“The principal aim of *Dental Materials* is to promote rapid communication of scientific information between academia, industry, and the dental practitioner. Original Manuscripts on clinical and laboratory research of basic and applied character which focus on the properties or performance of dental materials or the reaction of host tissues to materials are given priority publication. Other acceptable topics include application technology in clinical dentistry and dental laboratory technology.”

#### Dental Traumatology

“...aims to be the most prestigious international journal in the field of dental trauma. It covers the following dental trauma related topics: epidemiology, social aspects, education, diagnostics; esthetics, prosthetics, restorative; evidence based traumatology & study design...”

#### International Journal of Periodontics & Restorative Dentistry

“Uniquely presented articles encompass the relationship between a healthy periodontium and precise restorations, as well as the integration of implants with comprehensive treatment planning. Providing clinically relevant information for your daily practice is the main focus of this often-cited journal.”

#### Journal of Dental Education

“... is a monthly peer-reviewed journal published by the American Dental Education Association (ADEA). Since 1936, the *JDE* has provided coverage of the wide variety of scientific and educational research in dental education, allied dental education, and advanced dental education. The *Journal* is recognized as the premier publication for academic dentistry, covering topics including critical issues in dental education, evidence-based dentistry, faculty development, international perspectives, and more. The *Journal* celebrated its 75th anniversary in 2011 and it continues to be one of the top scholarly journals publishing on oral health and dental education.”

#### Journal of Dental Research

“... is a peer-reviewed scientific journal dedicated to the dissemination of new knowledge and information on all sciences relevant to dentistry and to the oral cavity and associated structures in health and disease.”

#### Journal of Esthetic and Restorative Dentistry

“...is the longest standing peer-reviewed journal devoted solely to advancing the knowledge and practice of esthetic dentistry. Its goal is to provide the very latest evidence-based information in the realm of contemporary interdisciplinary esthetic dentistry through high quality clinical papers, sound research reports and

educational features. The range of topics covered in the journal includes: Interdisciplinary esthetic concepts, implants, conservative adhesive restorations, tooth whitening, prosthodontic materials and techniques, dental materials, orthodontic, periodontal and endodontic esthetics, esthetics related research, and innovations in esthetics.”

#### The Journal of Implant and Advanced Clinical Dentistry

“...articles are intended to benefit ... the actively practicing dental provider. With each JIACD issue, readers are afforded the opportunity to assess clinical techniques, cases, literature reviews, and expert commentary that can immediately impact their daily dental practice.”

#### The Journal of Adhesive Dentistry

“New materials and applications in adhesion are profoundly changing the way dentistry is delivered. Bonding techniques have long been restricted to the tooth hard tissue, enamel, and dentin, which have obvious applications in operative and preventive dentistry as well as in esthetic and pediatric dentistry, prosthodontics, and orthodontics. The current development of adhesive techniques for soft tissues and slow-releasing agents will expand applications to periodontics and oral surgery as well. Scientifically sound, peer-reviewed articles explore the latest innovations in these emerging fields.”



**3. The existence of established advanced educational programs with structured curricula, qualified faculty and enrolled individuals for which accreditation by the Commission on Dental Accreditation can be a viable method of quality assurance.**

- a. Describe the historical development and evolution of educational programs in the area of advanced training in general dentistry

With the publication of A Work on Operative Dentistry by G.V. Black in 1908, a body of knowledge specific to the diseases, defects, and restoration of the hard tissues of human teeth was born. Subsequently, a need for dentists with in-depth knowledge of cariology, restorative materials, clinical dental restorative techniques, and dental disease prevention was identified, particularly a need for educators in this area was identified. In the latter half of the 20<sup>th</sup> century, a few programs leading to a Masters degree in this area were established to meet this need. More recently, new residency programs in Esthetic, Operative, Restorative, and/or Preventive Dentistry have been started, and there are now at least 6 such programs in the U.S. It can be assumed that these programs have been established in response to a perceived demand for residency level education in restorative dentistry related disciplines

Coincident with the rise of post-doctoral residency programs in restorative dentistry, organized dentistry was becoming more focused upon restorative dentistry as well. The American Academy of Restorative Dentistry was formed in 1929 as an organization "... composed of the leading teachers, researchers and practitioners from around the world with a special interest in Restorative Dentistry. The Academy is dedicated to the ethical and scientific practice of Restorative Dentistry and is limited to 165 active members." In 1972, the Academy of Gold Foil Operators helped form the Academy of Operative Dentistry as an organization specifically for the "operative dentist." The Academy of Operative Dentistry's goal was to promote excellence and continuous improvement in operative dentistry by influencing dentists in organized dentistry, health science education, and research. As part of that mission, in 1980, The Academy of Operative Dentistry sponsored the founding of The American Board of Operative Dentistry, Inc. The mission of the Board is, "...to elevate the art and science of Operative Dentistry, by encouraging its study and improving its practice. It will conduct yearly examinations to determine the competence of dentists who voluntarily apply to the Board for certification." Since 1985, when the first 5 certificates were awarded, the Board has certified over 80 dentists from 8 countries. See Tab 2, Exhibit A.

- b. A listing of the current operational programs in the advanced general dentistry training area, identifying for each, the:

Sponsoring institution:

Boston University School of Dentistry

Name and qualifications of the program director:

Dan Nathanson, D.D.S., M.S.D.

D.M.D. Hebrew University, School of Dental Medicine, Jerusalem, Israel, 1972  
Certificate. Dental Internship, Beth Israel Hospital, Boston, MA, 1973

Certificate. Advanced Restorative Dentistry, Harvard School of Dental Medicine, Boston, MA, 1975  
Certificate. Clinical Research Fellowship in Dental Materials, Forsyth Dental Center, Boston, MA, 1976  
M.S.D. Dental Public Health, Boston University, Goldman School of Dental Medicine, Boston, MA, 1985  
Certificate. Advanced Prosthodontics (Specialty), Boston University, Goldman School of Dental Medicine, Boston, MA, 1990  
Instructor, Department of Operative Dentistry, Harvard School of Dental Medicine, Boston, MA, 1975-1977  
Assistant Professor, Department of Operative Dentistry, Harvard School of Dental Medicine, Boston, MA, 1977-1978  
Adjunct Assistant Member of the Staff, Forsyth Institute for Research & Advanced Study in Dentistry Boston, MA 1977-1978  
Associate Professor of Restorative Dentistry, Head, Operative Dentistry Division, Tufts University School of Dental Medicine, 1978-1982  
Research Affiliate in Dental Materials, Forsyth Dental Center, Boston, MA, 1980  
Head of Operative Dentistry. Tufts University School of Dental Medicine, Boston, MA, 1981-1982  
Head of Dental Materials Research Division. Tufts University School of Dental Medicine, Boston, MA, 1981-1983  
Professor and Chairman. Department of Biomaterials, Boston University, Goldman School of Dental Medicine, Boston, MA, 1982-1997  
Director. Division of Continuing Education, Boston University, Goldman School of Dental Medicine, Boston, MA 1987 - 1992  
Assistant Dean for Continuing Education and External Affairs. Boston University, Goldman School of Dental Medicine Boston, MA, 1992 - 2001  
Chairman. Department of Restorative Sciences & Biomaterials, Boston University, Goldman School of Dental Medicine, Boston, MA 1997 - Present

Number of full-time and part-time faculty (define part-time for each program):

The department has 7 full-time, and 14 part-time and volunteer faculty members working with residents in graduate courses, as well as in the clinics. Many faculty members also maintain a private practice along with their work in the school. Our faculty members stay current with developments and current issues in their specific disciplines within Restorative Dentistry by attending lectures, continuing education courses, and conferences throughout the world and involving themselves in and overseeing various research projects.

Curriculum (course outlines, student competencies, class schedules):

MSD in Operative Dentistry

In addition to the biomedical science and clinical requirements for the Certificate of Advanced Graduate Study (CAGS) program below, the following are required:

#### Year 1 or Year 3 of MSD

- SDM OP 991 Research: Operative Dentistry (4 cr, 1st and 2nd sem.)
- SDM PR 830 Advanced Biomaterials (4 cr, 4th and 5th sem.)
- SDM OB 830 Research Writing (2 cr, 1st sem.)

This year can be either before the CAGS or after the CAGS. This will be based on the recommendations of the chair of the department and the director of the program.

Other coursework may be assigned at the discretion of the research advisor and the department chair.

#### CAGS Curriculum

##### Year 1

- SDM PR 750 Preclinical Restorative (1 cr, 1st sem.)
- SDM OP 803 Seminar: Operative Dentistry (1 cr, 1st and 2nd sem.)
- SDM OP 807 Preclinical Technique (1 cr, 1st sem.)
- SDM OP 912 Clinical Operative Dentistry I (6 cr, 2nd sem.)
- SDM OS 761 Medical Concerns of the Dental Patient (2 cr, 1st and 2nd sem.)
- SDM OS 828 Anxiety and Pain Control (1 cr, 2nd sem.)
- SDM OS 831 Head and Neck Anatomy (1 cr, 1st sem.)
- SDM PA 801 Oral Pathology (2 cr, 2nd sem.)
- SDM PE 764 Current Concepts in Periodontology (1 cr, 1st sem.)
- SDM PE 827 Applied Dental Pharmacology (1 cr, 2nd sem.)
- SDM PH 763 Bioethics and Law (1 cr, 1st sem.)
- SDM PR 761 Occlusion (2 cr, 1st sem.)
- SDM PR 812 Prosthodontics Seminar and Literature Review (1 cr, 1st sem.)
- SDM PR 825 Postdoctoral Biomaterials (4 cr, 1st and 2nd sem.)
- SDM PR 828 Esthetic Dentistry (2 cr, 2nd sem.)
- SDM PR 844 Implantology Literature Review (2 cr, 1st and 2nd sem.)
- SDM PR 845 Implantology Topics (2 cr, 1st and 2nd sem.)
- SDM EN 820 Endodontics and Pulpal Therapy for the General Practitioner (1 cr, 1st sem.)
- SDM PH 803 Biostatistics (2 cr, 1st and 2nd sem.)

##### Year 2

- SDM OP 913 Clinical Operative Dentistry II (20 cr, 3rd and 4th sem.)
- SDM PR 813 Literature Review in General Dentistry (1 cr, 1st and 2nd sem.)
- SDM PR 810 Case Presentation and Patient Care Conference (1 cr, 2nd sem.)

Outcomes assessment methods:

Degree candidates are required to carry out an original research project and submit an approved thesis. Preliminary review of the literature and selection of a research topic should ordinarily be completed by the end of the first semester of the program. Prior to starting the project, the candidate must submit a research protocol, approved by the candidate's committee. Completion of the research and preparation of the thesis constitute an ongoing activity over the remainder of the program, culminating in the final Defense of Thesis examination by the student's graduate committee.

The members of the student's graduate committee will conduct preliminary oral and written examinations (required of both degree and certificate candidates), covering essentially the candidate's field of study. The candidate must complete these examinations six months prior to the intended date of graduation. The student is eligible to take these examinations upon completion of one-half of the didactic course work.

Each course utilizes Written and Oral Examination with periodic faculty evaluation and clinical performance evaluation.

Minimum length of the program:

2 (Certificate), 3 (MSD), or 6 (DScD) Years

Certificate and/or degree awarded upon completion:

Certificate of Advanced Graduate Study.

Master of Science in Dentistry.

DScD in Operative Dentistry.

Number of enrolled individuals per year for at least the past 5 years:

<u>Year</u>	<u>Enrolled</u>
2013	5
2012	6
2011	7
2010	6
2009	6

Number of graduates per year for at least the past five years:

<u>Year</u>	<u>Graduates</u>
2013	2
2012	3
2011	3
2010	3
2009	3

See Tab 3, Exhibit A. for documentation.

Sponsoring institution:

Indiana University School of Dentistry

Name and qualifications of the program director:

N. Blaine Cook, D.D.S., M.S.D.

D.D.S. - University of the Pacific School of Dentistry – 1981  
Graduate Operative Dentistry/Preventive Dentistry Residency, Indiana  
University School of Dentistry - 1992-1995  
MSD - Operative Dentistry, Indiana University School of Dentistry – 1997  
Private dental practice, Idaho Falls, Idaho, 1981-1986  
Dental Officer, United States Navy Dental Corps, 1986-2006  
Specialty Advisor for Operative Dentistry to the US Navy Surgeon  
General, 2000-2006  
Assistant Professor of Operative Dentistry, University of Nebraska Medical  
Center College of Dentistry, 2006-2009  
Clinical Associate Professor of Operative Dentistry, Indiana University School  
of Dentistry, 2009-Present  
Director, Graduate Operative Dentistry, Indiana University School of Dentistry,  
2009-Present

Number of full-time and part-time faculty (define part-time for each program):

The department has 2 full-time, and 23 part-time and volunteer faculty members working with residents in graduate courses, as well as in the clinics. Many faculty members also maintain a private practice along with their work in the school. Our faculty members stay current with developments and current issues in their specific disciplines within Restorative Dentistry by attending lectures, continuing education courses, and conferences throughout the world and involving themselves in and overseeing various research projects.

Curriculum (course outlines, student competencies, class schedules):

Core Competencies

Graduates of the two-year postdoctoral program in operative dentistry will be prepared to:

1. manage caries risk patients based on Caries Management by Risk Assessment (CAMBRA);
2. discuss current direct and indirect dental restorative materials (gold, dental amalgam, ceramics, glass ionomer cement, and resin-matrix composite) including associated setting reactions, physical properties, and indications and contraindications for their clinical use;

3. demonstrate clinical proficiency when performing routine and advanced restorative procedures;
4. demonstrate a broad knowledge base of dental restorative materials and procedures;
5. demonstrate knowledge of current restorative dentistry scientific literature;
6. develop and present evidence-based restorative dentistry lectures; and
7. develop a research protocol and perform controlled dental research.

The basic curriculum requirements for the two year Graduate Programs in OPERATIVE DENTISTRY is below:

### REQUIRED COURSES

- \* R925 Oral Biology
  - \* G948 Advanced Radiographic Imaging
- (These two core courses are condensed and are taken in July at the beginning of the program.)

\* Indicates a core course required of all Graduate candidates in the School of Dentistry

### MAJOR: OPERATIVE DENTISTRY

Courses	Credit Hours
DENT-G 910 Seminar - Operative Dentistry	1
DENT-G 925 Research - Operative Dentistry	6
DENT-G 950 Advanced Clinical Operative Dentistry	6
DENT-G 951 Interdisciplinary Role of Operative Dentistry	2
DENT-G952 Analysis of Operative Procedures	2
DENT-G 953 Recent Advances in Operative Dentistry	2
DENT-G 910 Biostatistics *	1
DENT-G 907 Clinical Oral Pathology Conference I	1
DENT-G 909 Clinical Oral Pathology Conference II	1

\* Indicates a core course required of all Graduate candidates in the School of Dentistry

### MINOR: DENTAL MATERIALS

In addition, the following three courses in Dental Materials are required and will constitute a minor.

Courses	Credit Hours
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DENT-G 911 Dental Materials Science and Engineering	2
DENT-G 912 Properties & Test Methods: Dental Materials	2
DENT-G 913 Clinical Application of Dental Materials	2

### REQUIRED ROTATIONS

All students must be currently certified in Cardiopulmonary Resuscitation (CPR) and maintain this certification throughout their program. Certification courses are offered so that students can meet this requirement.

Each student is required to devote some time toward teaching of undergraduate dental students. This will occur either in a laboratory setting or during treatment of patients.

Each student is required to participate in clinical study club teaching sessions which take place during both years of the program.

### ELECTIVE COURSES

Most of the required didactic courses are taken during the first year, leaving some time available during the second year for the student to take electives of their choice in areas that are of special interest to them. Students in the Graduate Program in Operative Dentistry may select electives from any of the Graduate courses offered at the School of Dentistry with the following stipulations:

1. The elective course must not conflict with any required course or activity.
2. The student must obtain permission from both the elective course director and the director of the Graduate Operative Dentistry program to enroll in the course.

Frequently, students use their electives to complete a second minor. One area that has been selected by many students in the past is Preventive Dentistry. This field is closely related to the Operative Dentistry discipline and a minor can be earned by completing 6 hours from the following courses.

### PREVENTIVE DENTISTRY

#### FALL SEMESTER - FIRST YEAR

Courses	Credit Hours
R909 Advanced Preventive Dentistry I	2-3
R910 Advanced Preventive Dentistry II	2-3
R911 Advanced Preventive Dentistry III	1-2

Other students elect to take basic courses in other disciplines such as Endodontics, Periodontics, Prosthodontics, Oral Pathology or Diagnostic Sciences. It should be



noted that you cannot receive a minor in an American Dental Association recognized specialty. This does not mean that you may not take courses in these areas, just that they do not qualify as a minor.

### ELECTIVE ACTIVITIES

It is suggested that students enrolled in the Graduate Operative Dentistry Program make an attempt to attend the annual meetings of the Academy of Operative Dentistry and the American Academy of Gold Foil Operators during both years of their program. These sessions offer excellent didactic programs as well as an outstanding operating session during the AAGFO meeting. We also encourage our graduate students to become members in both these organizations. However, we realize that these are additional expenses that are not covered by your tuition and fees. Therefore, these activities are not required, but are suggested additions to your training. We also encourage our students to take the American Board of Operative Dentistry examination (3 parts) during their residency.

Graduate students are also eligible to attend the numerous Continuing Education courses offered by the Indiana University School of Dentistry. The Director of Continuing Education has set forth the following policy for graduate students:

"Graduate students may attend select courses on a space available basis. Tuition fee will be waived. A \$ 10.00 per person/per day registration fee will be charged to cover expenses and an additional per person/per day at cost fee will be charged when lunches are involved (and the student wishes to participate). Workshops and limited attendance courses are on a space available basis. In addition to the university policy registration fee, materials, instruments, and laboratory fees will be offered at cost."

### INTRA-ORAL PHOTOGRAPHIC EQUIPMENT

It is strongly suggested (but not required) that all Graduate Operative Dentistry students have their own intra-oral camera set-up, or be prepared to purchase such equipment during their first semester of the program. The department does have an intra-oral camera available for use by the graduate students, but it may be in use by someone else when you need it.

### OPERATING MAGNIFICATION

It is strongly suggested (but not required) that all Graduate Operative Dentistry student have their own operating magnification equipment, or be prepared to purchase such equipment during their first semester of the program. The use of operating magnification greatly enhances your ability to perform precision preparations and restorations.

## GRADUATE COMMITTEE

Each student will select a graduate faculty committee composed of the program director, who serves as chairman of the committee, and four additional graduate faculty members. At least one of these

must be a representative of the student's minor concentration and one must be from an outside discipline. It is the purpose of this committee to provide advice concerning the student's academic progress and research, and conduct the required examinations.

## RESEARCH

Scientific inquiry and research are strongly encouraged for all students in the graduate dental programs. Opportunities for both basic and/or clinical research are available in most disciplines, together with appropriate support services and facilities (see Research Handbook).

## SEMESTER SCHEDULES

The following is a breakdown of the curriculum sequencing in Graduate Operative Dentistry by semester. Only graduate core courses and program required courses are listed. Candidates are free to take electives of their own choosing whenever they will fit into their schedule.

BEGINNING SUMMER SESSION (required of all School of Dentistry graduate students):

R925 Oral Biology

G948 Advanced Radiographic Imaging

(These two core courses are condensed and are taken in July at the beginning of the program.)

*Please Note: a Cardiopulmonary Resuscitation certification course will be offered during this session for any student not currently certified in CPR. All students must be certified in CPR before beginning clinical activity, and must maintain this certification throughout their graduate program.*

The curriculum schedule for the 2 Year Program

### FALL SEMESTER - FIRST YEAR

Courses	Credit Hours
DENT-G 907 Clinical Oral Pathology Conference I	1
DENT-G 912 Properties & Test Methods: Dental Materials	2
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 952 Analysis of Operative Procedures	2

DENT-G 953 Recent Advances in Operative Dentistry	2
DENT-G 910 Biostatistics	1

#### SPRING SEMESTER - FIRST YEAR

Courses	Credit Hours
DENT-G 909 Clinical Oral Pathology Conference II	1
DENT-G 910 Seminar: Operative Dentistry	1
DENT-G 911 Dental Materials Science and Engineering	2
DENT-G 913 Clinical Applications of Dental Materials	2
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 951 Interdisciplinary Role of Operative Dentistry	2

#### SUMMER SESSION - FIRST YEAR

Courses	Credit Hours
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 925 Research: Operative Dentistry	1

#### FALL SEMESTER - SECOND YEAR

Courses	Credit Hours
DENT-G 950 Advanced Clinical Operative Dentistry	2
DENT-G 925 Research: Operative Dentistry	3
<i>Plus Selected Elective Courses</i>	

#### SPRING SEMESTER - SECOND YEAR

Courses	Credit Hours
DENT-G 925 Research: Operative Dentistry	3
DENT-G 950 Advanced Clinical Operative Dentistry	2
<i>Plus Selected Elective Courses</i>	

#### SUMMER SESSION - SECOND YEAR

Courses	Credit Hours
DENT-G 925 Research: Operative Dentistry	1
DENT-G 950 Advanced Clinical Operative Dentistry	12

The curriculum schedule for the 3 Year Program

DENT-R 955 Oral Biology I (2.5 credit hours)  
 DENT-G 948 Advanced Radiography (2.0 credit hours)  
 (These two core courses are condensed and are taken in July at the beginning of the program.)

International students, who are required to complete ENG-G 013, will complete this course in June.

*Please Note: a Cardiopulmonary Resuscitation certification course will be offered during this session for any student not currently certified in CPR. All*

*students must be certified in CPR before beginning clinical activity, and must maintain this certification throughout their graduate program.*

FALL SEMESTER - FIRST YEAR

Courses	Credit Hours
DENT-G 907 Clinical Oral Pathology Conference I	1
DENT-G 912 Properties & Test Methods: Dental Materials	2
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G952 Analysis of Operative Procedures	2
DENT-G 953 Recent Advances in Operative Dentistry	2
DENT-R 909 Advanced Preventive Dentistry I	3

SPRING SEMESTER - FIRST YEAR

Courses	Credit Hours
DENT-G 909 Clinical Oral Pathology Conference II	1
DENT-G 910 Seminar: Operative Dentistry	1
DENT-G 911 Dental Materials Science and Engineering	2
DENT-G 913 Clinical Applications of Dental Materials	2
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 951 Interdisciplinary Role of Operative Dentistry	2
DENT-R 910 Advanced Preventive Dentistry II	3
DENT-R 941 Fundamentals of Implant Dentistry	3

SUMMER SESSION - FIRST YEAR

Courses	Credit Hours
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

FALL SEMESTER - SECOND YEAR

Courses	Credit Hours
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1
DENT-R 911 Advanced Preventive Dentistry III	2
DENT-G 910 Seminar: Preventive Dentistry	1
GRAD-G 651 Introduction to Biostatistics I	3
<i>Plus Selected Elective Courses</i>	

SPRING SEMESTER - SECOND YEAR

Courses	Credit Hours
DENT G 910 Seminar: Preventive Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1
DENT-G 950 Advanced Clinical Operative Dentistry	1

DENT-G 959 Oral Microbiology 3  
*Plus Selected Elective Courses*

SUMMER SESSION - SECOND YEAR

Courses	Credit Hours
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

FALL SEMESTER - THIRD YEAR

Courses	Credit Hours
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 660 Clinical Research Methods	2
DENT-G 910 Seminar: Preventive Dentistry	1
DENT-R 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

*Plus Selected Elective Courses*

SPRING SEMESTER - THIRD YEAR

Courses	Credit Hours
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT G 910 Seminar: Preventive Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

*Plus Selected Elective Courses*

SUMMER SESSION - THIRD YEAR

Courses	Credit Hours
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

Outcomes assessment methods:

Degree candidates are required to carry out an original research project and submit an approved thesis. Preliminary review of the literature and selection of a research topic should ordinarily be completed by the end of the first semester of the program. Prior to starting the project, the candidate must submit a research protocol, approved by the candidate's committee. Completion of the research and preparation of the thesis constitute an ongoing activity over the remainder of the program, culminating in the final Defense of Thesis examination by the student's graduate committee.

The members of the student's graduate committee will conduct preliminary oral and written examinations (required of both degree and certificate candidates), covering essentially the candidate's field of study. The candidate must complete

these examinations six months prior to the intended date of graduation. The student is eligible to take these examinations upon completion of one-half of the didactic course work.

Each course utilizes Written and Oral Examination with periodic faculty evaluation and clinical performance evaluation.

Minimum length of the program:

2 Years

IUSD offers a two-year Operative Dentistry degree. Training is divided equally between didactics, clinical patient care, and research. Please visit our [Graduate Operative Dentistry](#) page for more information.

IUSD offers a three-year combined Operative/Preventive Dentistry degree. Training is divided equally between didactics, clinical patient care, and research. Please visit our [Graduate Operative Dentistry](#) page for more information.

Certificate and/or degree awarded upon completion:

Master of Science in Dentistry. Minor concentration: dental materials or preventive dentistry.

Number of enrolled individuals per year for at least the past 5 years:

<u>Year</u>	<u>Enrolled</u>
2013	10
2012	11
2011	9
2010	10
2009	10

Number of graduates per year for at least the past five years:

<u>Year</u>	<u>Graduates</u>
2013	6
2012	5
2011	6
2010	6
2009	6

See Tab 3, Exhibit B. for documentation.

Sponsoring institution:

Nova Southeastern University

Name and qualifications of the program director:

Dr. Audrey Levitt Galka, D.D.S.

Associate Professor and Chair, Section of Cariology and Restorative Dentistry.

Number of full-time and part-time faculty (define part-time for each program):

The department has 10 full-time, and 2 adjunct and clinical faculty members working with residents in graduate courses, as well as in the clinics. Many faculty members also maintain a private practice along with their work in the school. Our faculty members stay current with developments and current issues in their specific disciplines within Restorative Dentistry by attending lectures, continuing education courses, and conferences throughout the world and involving themselves in and overseeing various research projects.

Curriculum (course outlines, student competencies, class schedules):

#### Core Courses

Advanced Dental Radiology (CDM 5000)

Consideration of hard and soft tissue craniofacial imaging modalities, including MRI, tomography, and digital imaging.

Advanced Dental Materials (CDM 5001)

Properties and clinical considerations in the use of today's restorative materials.

Research Design (CDM 5002)

Learn how to plan research projects, initiate the projects and effectively present the findings. Critical evaluation of the literature about the field of interest is going to be emphasized.

Adv. Microbiology & Cell Biology (CDM 5003)

Graduate training in microbiology, including virology, bacteriology, microbial genetics, and microbial pathogenesis.

Advanced Oral Histology & Embryology (CDM 5004)

Cytological and developmental considerations in embryological, fetal and neonatal human craniofacial growth and development.

Fundamentals of Biostatistics (CDM 5006)

Analysis of descriptive and inferential statistics as used in contemporary biomedical research, including electronic-based statistical programs.

Ethics and Jurisprudence (CDM 5109)

Reviews hallmarks of dental professional ethics, and aspects of the law that commonly impact on the daily practice of dentistry.

Advanced Medical Physiology (CDM 5008)

Detailed examination of cells and their transport, cardiac, pulmonary, acid base balance and fluids. Renal physiology, blood coagulation as well as blood factors will be addressed. Medical applications will be part of this course. Other topics will be integrated into the above.

Adv. Head & Neck Anatomy Lecture Series (CDM 5103)

Didactic and dissection based consideration of head and neck structure and function essential to advanced dental practice.

Adv. Head & Neck Anatomy Lab Series (CDM 5104)

Laboratory based consideration of head and neck structure and function essential to advanced dental practice.

Adv. Systemic Oral Medicine & Pharmacology (CDM 5106)

Expands on the predoctoral education regarding the topic of oral medicine. The seminars will discuss current and classic literature to help refine the skills of students in interpreting a medical history and dental management of medically complex patients.

Departmental Courses

Current Literature Review Seminar I, II, III and IV

Classic Literature Review Seminar I, II, III and IV

Advanced Treatment Planning Seminar I, II, III and IV

Evidence Based Dentistry Course I, II, III and IV

Research I, II, III and IV

Thesis I, II, III and IV

Implant Review Course

Operative Dentistry Review Course

Fixed Prosthodontics Review Course

Cad Cam Restorations Course

Advanced Cariology Course

Academic Career in Operative Dentistry Course

Effective Teaching, Learning, and Assessment Methodology Course

Advanced Operative Dentistry Clinic I, II, III and IV

Outcomes assessment methods:

Degree candidates are required to carry out an original research project and submit an approved thesis. Preliminary review of the literature and selection of a research topic should ordinarily be completed by the end of the first semester of



the program. Prior to starting the project, the candidate must submit a research protocol, approved by the candidate's committee. Completion of the research and preparation of the thesis constitute an ongoing activity over the remainder of the program, culminating in the final Defense of Thesis examination by the student's graduate committee.

The members of the student's graduate committee will conduct preliminary oral and written examinations (required of both degree and certificate candidates), covering essentially the candidate's field of study. The candidate must complete these examinations six months prior to the intended date of graduation. The student is eligible to take these examinations upon completion of one-half of the didactic course work.

Each course utilizes Written and Oral Examination with periodic faculty evaluation and clinical performance evaluation.

Minimum length of the program:

2-3 Years

Certificate and/or degree awarded upon completion:

Master of Science and Certificate.

Number of enrolled individuals per year for at least the past 5 years:

<u>Year</u>	<u>Enrolled</u>
2013	6
2012	3
2011	0
2010	0
2009	0

Number of graduates per year for at least the past five years:

<u>Year</u>	<u>Graduates</u>
2013	3
2012	0
2011	0
2010	0
2009	0

See Tab 3, Exhibit C. for documentation.

Sponsoring institution:

University of California at Los Angeles

Name and qualifications of the program director:

Richard G. Stevenson III, D.D.S., B.S.

B. S. in Chemistry. UCLA, 1982  
D.D.S. UCLA School of Dentistry, 1986.

Private Practice in General Dentistry. 1986-1994

Assistant Professor. Section of Operative Dentistry, UCLA School of Dentistry.  
Chair of the Pre-Clinical Operative Dentistry Course. UCLA School of Dentistry.  
Professor of Clinical Dentistry and Chair of Restorative Dentistry. UCLA School of Dentistry.

Dr. Stevenson is a member of the Academy of Operative Dentistry. He was an Executive Councilor of the Academy of Operative Dentistry for three years before serving as President in 2003; thereafter, he held the position of Assistant Secretary and has been appointed Secretary in 2008. He is Board Certified in Operative Dentistry by the American Board of Operative Dentistry and is an ABOD Examiner. He is a Fellow of the Academy of General Dentistry and the Academy of Dentistry, International. Dr. Stevenson has been a member of the Orange County R.V. Tucker Cast Gold Study Club since 1991 and has demonstrated cast and direct gold techniques at both the Academy of R.V. Tucker Study Clubs and the American Academy of Gold Foil Operators annual meetings. In 2003, Dr. Richard V. Tucker appointed Dr. Stevenson as the mentor of the Los Angeles Cast Gold Study Club and the Cast Gold Club of Lima, Peru. The program is led by Dr. Richard G. Stevenson III, Clinical Professor and Chair for the Division of Restorative Dentistry. He has taught at UCLA since 1992, where he received the Faculty of the Year Award from three classes of graduating dentists. In 1999, he received a Fellowship in Medical Education at the UCLA School of Medicine. In 2001, he received a Certificate in Advanced Education in General Dentistry. He is a member of many professional associations including the Academy of Operative Dentistry, and the American Academy of Gold Foil Operators. Dr. Stevenson is the mentor of five Academy of Richard V. Tucker Study Clubs in Japan, Peru and the United States. Dr. Stevenson is the recipient of the ADA's Golden Apple Award in teaching. In 2009, the Academy of Operative Dentistry honored him with the Award of Excellence.

Number of full-time and part-time faculty (define part-time for each program):

The department has 2 full-time, and 9 adjunct and clinical faculty members working with residents in graduate courses, as well as in the clinics. Many faculty members also maintain a private practice along with their work in the school. Our

faculty members stay current with developments and current issues in their specific disciplines within Restorative Dentistry by attending lectures, continuing education courses, and conferences throughout the world and involving themselves in and overseeing various research projects.

Curriculum (course outlines, student competencies, class schedules):

The Restorative Dentistry Advanced Clinical Training Program is an intensive one year program designed to provide internationally trained dentists with a strong fundamental understanding and advanced knowledge and skills in the broad realm of restorative dentistry. This is an excellent opportunity for those who seek additional restorative experiences to supplement what they have already learned through formal education and/or practice in didactic, teaching, and clinical formats.

The program will include lectures and laboratory sessions in operative dentistry, fixed prosthodontics, dental morphology and occlusion, esthetic dentistry, advanced restorative dentistry, conservative cast gold study club, and graduate treatment planning seminars. Trainees will also work with clinical faculty when treating patients at the restorative dentistry clinic on the Westwood campus and at the Venice Dental Center.

Trainees will be mentored by restorative dentistry faculty in both pre-clinical and clinical restorative dentistry techniques as taught at the UCLA School of Dentistry, and will learn to improve their own teaching skills as well in pre-doctoral restorative courses. Additionally, trainees will be encouraged to engage in a directed project in restorative dentistry research leading to a publication submission. At the conclusion of the program, trainees will obtain the knowledge and skills equivalent to those gained through a one year postgraduate training program in restorative dentistry.

*Although this is not a CODA accredited program, a certificate is awarded upon successful completion of the program. The two year program has been approved by the American Board of Operative Dentistry for Challenging the ABOD Board Certification Examination. Many states in the U.S. allow 2-year graduates the opportunity for licensure. Please contact the individual states for specific requirements.*

Outcomes assessment methods:

Degree candidates are required to carry out an original research project and submit an approved thesis. Preliminary review of the literature and selection of a research topic should ordinarily be completed by the end of the first semester of the program. Prior to starting the project, the candidate must submit a research protocol, approved by the candidate's committee. Completion of the research and preparation of the thesis constitute an ongoing activity over the remainder of the

program, culminating in the final Defense of Thesis examination by the student's graduate committee.

The members of the student's graduate committee will conduct preliminary oral and written examinations (required of both degree and certificate candidates), covering essentially the candidate's field of study. The candidate must complete these examinations six months prior to the intended date of graduation. The student is eligible to take these examinations upon completion of one-half of the didactic course work.

Each course utilizes Written and Oral Examination with periodic faculty evaluation and clinical performance evaluation.

Minimum length of the program:

1-2 Years

Certificate and/or degree awarded upon completion:

Certificate.

Number of enrolled individuals per year for at least the past 5 years:

<u>Year</u>	<u>Enrolled</u>
2013	18
2012	18
2011	15
2010	12
2009	0

Number of graduates per year for at least the past five years:

<u>Year</u>	<u>Graduates</u>
2013	12
2012	12
2011	6
2010	0
2009	0

See Tab 3, Exhibit D. for documentation.

Sponsoring institution:

University of Iowa

Name and qualifications of the program director:

Deborah Cobb, D.D.S., M.S.

Dr. Cobb is graduate program director and a pre- and post-doctoral lecturer and clinical instructor.

B.S./R.D.H. Northern Arizona University, 1976

D.D.S. University of Iowa, 1982

M.S. Operative Dentistry, The University of Iowa, 1995

Clinical Activities

Intramural dental practice in the Department of Operative Dentistry.

Research Activities

Dr. Cobb's areas of interest include clinical studies, indirect esthetic restorations, and tooth whitening.

National or International Professional Appointments and Activities

Dr. Cobb is a member of the American Association for Dental Research; the Academy of Operative Dentistry; the American Dental Education Association; the American Dental Association; the Iowa Dental Association; and Omicron Kappa Upsilon.

Number of full-time and part-time faculty (define part-time for each program):

The department has 7 full-time, and 12 adjunct and clinical faculty members working with residents in graduate courses, as well as in the clinics. Many faculty members also maintain a private practice along with their work in the school. Our faculty members stay current with developments and current issues in their specific disciplines within Restorative Dentistry by attending lectures, continuing education courses, and conferences throughout the world and involving themselves in and overseeing various research projects.

Curriculum (course outlines, student competencies, class schedules):

For Graduate and Certificate Students

Discipline Studies

082:224 (OPER:6224) Graduate Restorative Materials

2 s.h.

Dental materials science: mechanical, physical, and chemical properties of

restorative materials; selection and manipulation. Same as 084:224 (PROS:6224).

082:225 (OPER:5125) Operative Dentistry Seminar I 1 s.h.  
Basic concepts of cavity preparation, material placement.

082:226 (OPER:5126) Operative Dentistry Seminar II 1 s.h.  
Direct resin systems, bonding technology; their use in dental esthetic treatment.

082:227 (OPER:6227) Operative Dentistry Seminar III 1 s.h.  
Use of indirect techniques in bonded esthetic restorations.

082:228 (OPER:6228) Operative Dentistry Seminar IV 1 s.h.  
Principles for health professions educators.

#### Research Program

082:230 (OPER:5130) Operative Dentistry Research I 3 s.h.  
Thesis topic selection, committee selection, literature review.

082:231 (OPER:5131) Operative Dentistry Research II 2 s.h.  
Thesis protocol, research.

082:232 (OPER:6232) Operative Dentistry Research III 3 s.h.  
Thesis research, data gathering, writing.

082:233 (OPER:6233) Operative Dentistry Research IV 3 s.h.  
Thesis completion, defense.

082:234 (OPER:5234) Selected Applications of Operative  
Dentistry arr.  
Advanced techniques.

#### Clinical Studies

082:240 (OPER:5140) Operative Dentistry Advanced  
Clinic I arr.  
Materials, techniques; restoration procedures on a mannequin.

082:241 (OPER:5141) Operative Dentistry Advanced  
Clinic II arr.  
Patient treatment in operative clinic; basic operative procedures.

082:242 (OPER:6242) Operative Dentistry Advanced arr.

Clinic III Patient treatment in operative clinic; direct-bonded esthetic restorative procedures. 082:243 (OPER:6243) Operative Dentistry Advanced Clinic IV	arr.
Patient treatment in operative clinic; advanced esthetic restorative procedures.	
082:244 (OPER:6245) Operative Dentistry Advanced Clinic V	arr.
Patient treatment in operative clinic; advanced esthetic restorative procedures.	
082:245 (OPER:5245) Clinical Demonstrating Teaching undergraduate dental students in laboratory, clinic.	arr.
082:300 (OPER:9300) Operative Dentistry Certificate Pr Advanced dental clinical, didactic education; nondegree program toward eligibility for board certification in operative dentistry.	0 s.h.

Outcomes assessment methods:

Degree candidates are required to carry out an original research project and submit an approved thesis. Preliminary review of the literature and selection of a research topic should ordinarily be completed by the end of the first semester of the program. Prior to starting the project, the candidate must submit a research protocol, approved by the candidate's committee. Completion of the research and preparation of the thesis constitute an ongoing activity over the remainder of the program, culminating in the final Defense of Thesis examination by the student's graduate committee.

The members of the student's graduate committee will conduct preliminary oral and written examinations (required of both degree and certificate candidates), covering essentially the candidate's field of study. The candidate must complete these examinations six months prior to the intended date of graduation. The student is eligible to take these examinations upon completion of one-half of the didactic course work.

Each course utilizes Written and Oral Examination with periodic faculty evaluation and clinical performance evaluation.

Minimum length of the program:

3 Years

Certificate and/or degree awarded upon completion:

Master of Science and Certificate.

Number of enrolled individuals per year for at least the past 5 years:

<u>Year</u>	<u>Enrolled</u>
2013	9
2012	9
2011	9
2010	9
2009	9

Number of graduates per year for at least the past five years:

<u>Year</u>	<u>Graduates</u>
2013	3
2012	3
2011	3
2010	3
2009	3

See Tab 3, Exhibit E. for documentation.



Sponsoring institution:

University of Michigan

Name and qualifications of the program director:

Peter Yaman, D.D.S., M.S.

M.S. (Restorative Dentistry). University of Michigan, Horace H. Rackham School of Graduate Studies, 1975

D.D.S. University of Michigan, School of Dentistry 1971

University of Michigan, Horace H. Rackham School of Graduate Studies, School of Public Health 1966-1967

Clinical Professor, Director Graduate Restorative Dentistry, University of Michigan, School of Dentistry, 1998-Present

Assistant Professor, Director Graduate Restorative Dentistry, University of Michigan, School of Dentistry, 1988-1998

Assistant Professor, Department of Cariology, Restorative Sciences, and Endodontics, University of Michigan, School of Dentistry, 1975-1988

Clinical Instructor, Department of Operative Dentistry, University of Michigan, School of Dentistry, 1971-1975

Number of full-time and part-time faculty (define part-time for each program):

The department has 6 full-time, and numerous adjunct and volunteer faculty members working with residents in graduate courses, as well as in the clinics. Many faculty members also maintain a private practice along with their work in the school. Our faculty members stay current with developments and current issues in their specific disciplines within Restorative Dentistry by attending lectures, continuing education courses, and conferences throughout the world and involving themselves in and overseeing various research projects.

Curriculum (course outlines, student competencies, class schedules):

MS in Restorative Dentistry (Operative)

Curriculum for Year 1

Summer Term - Total Credits: 1

Seminar in Operative Dentistry - Orientation

Conservative Esthetic Principles and Restorative Techniques, #883

Standardization Procedures - Typodont Exercises

Fall Term - Total Credits: 8

Periodontal Therapy, #786 (starts in early July)  
Principles of Operative Dentistry, #746 (starts in early July)  
Scientific Communication, #610  
Radiology, #662  
Restorative Clinic, #742

Winter Term - Total Credits: 10

Clinical Evaluation in Restorative Dentistry, #747  
Concepts of Occlusion, #871  
Molecular Biology, #612  
Dental Education, #561 (includes Preclinic/Clinic Mentored Teaching Assignment)  
Esthetic Dentistry, #745  
Oral Pathology, #614  
Dental Implantology, #636  
Restorative Clinic, #742

Spring Term - Total Credits: 4

Biomaterials, #566  
Data Management in Restorative Dentistry, #741 (Statistics)  
Restorative Clinic, #742

Curriculum for Year 2

Fall Term - Total Credits: 7

Treatment of the Compromised Patient, #763  
Clinical Procedures in Crown and Bridge, #739  
Partial Denture, #638  
Application of Partial Denture Theory, #639  
Caries Diagnosis and Management, #884  
Restorative Clinic, #742  
Preclinic/Clinic Teaching (Optional, with stipend)

Winter Term - Total Credits: 4

Treatment of the Compromised Patient, #764  
Advanced Clinical Procedures in Crown and Bridge, #876  
Thesis Investigation, #743  
Restorative Clinic, #742  
Preclinic/Clinic Teaching (Optional, with stipend)

Spring Term - Total Credits: 2

Thesis Investigation, #743

Restorative Clinic, #742  
Preclinic/Clinic Teaching (Optional, with stipend)

Curriculum for Year 3

Fall Term - Total Credits: 2-4  
Thesis Investigation, #743  
Epidemiology of Oral Diseases, #621 (Elective)  
Restorative Clinic, #742  
Preclinic/Clinic Teaching (Optional, with stipend)

Winter Term - Total Credits: 2  
Thesis Investigation, #743  
Restorative Clinic, #742

Outcomes assessment methods:

Degree candidates are required to carry out an original research project and submit an approved thesis. Preliminary review of the literature and selection of a research topic should ordinarily be completed by the end of the first semester of the program. Prior to starting the project, the candidate must submit a research protocol, approved by the candidate's committee. Completion of the research and preparation of the thesis constitute an ongoing activity over the remainder of the program, culminating in the final Defense of Thesis examination by the student's graduate committee.

The members of the student's graduate committee will conduct preliminary oral and written examinations (required of both degree and certificate candidates), covering essentially the candidate's field of study. The candidate must complete these examinations six months prior to the intended date of graduation. The student is eligible to take these examinations upon completion of one-half of the didactic course work.

Each course utilizes Written and Oral Examination with periodic faculty evaluation and clinical performance evaluation.

Minimum length of the program:

3 Years

Certificate and/or degree awarded upon completion:

Master of Science and/or Certificate.

Number of enrolled individuals per year for at least the past 5 years:

<u>Year</u>	<u>Enrolled</u>
2013	13
2012	12
2011	12
2010	12
2009	12

Number of graduates per year for at least the past five years:

<u>Year</u>	<u>Graduates</u>
2013	4
2012	3
2011	4
2010	4
2009	4

See Tab 3, Exhibit F. for details.

Sponsoring institution:

University of North Carolina

Name and qualifications of the program director:

André Ritter, D.D.S., M.S.D.

Professor and Director of Clinical Research in the Department of Operative Dentistry.

He also serves as Director of the Operative Dentistry Graduate Program. He received a DDS degree from the Federal University of Santa Catarina, Brazil (UFSC), and a MSD degree from the University of North Carolina at Chapel Hill (UNC). Dr. Ritter also has two Certificates in Operative Dentistry, from UFSC and UNC. Before moving to the US in 1997, Dr. Ritter taught Operative Dentistry at UFSC and practiced with emphasis in preventive, restorative, and esthetic dentistry.

Dr. Ritter is member of several professional organizations including the American Dental Association, the American Academy of Operative Dentistry, and the International Association for Dental Research. He is member of the editorial board of 3 scientific journals (Journal of Esthetic and Restorative Dentistry, Operative Dentistry, and Dental Traumatology), and serves as manuscript reviewer for several scientific publications such as the Journal of The American Dental Association, Operative Dentistry, and The Journal of Dental Research. He has published over 100 journal articles and 50 research abstracts, has co-written 12 textbook chapters, and is co-author of four Operative Dentistry textbooks.

Dr. Ritter is actively involved in clinical and laboratory research, particularly in the areas of biomaterials and caries research. He also maintains a part-time intramural practice devoted to restorative and esthetic dentistry.

Number of full-time and part-time faculty (define part-time for each program):

The department has 8 full-time, and 9 adjunct and clinical faculty members working with residents in graduate courses, as well as in the clinics. Many faculty members also maintain a private practice along with their work in the school. Our faculty members stay current with developments and current issues in their specific disciplines within Restorative Dentistry by attending lectures, continuing education courses, and conferences throughout the world and involving themselves in and overseeing various research projects.

Curriculum (course outlines, student competencies, class schedules):

First Year - Summer Semester

- OPER 732 Introduction to Operative Dentistry
- OPER 731 Cariology
- OMSU 720 Clinical Pharmacology and Therapeutics
- OMSU 707 Regional Anatomy

First Year - Fall Semester

- DENG 701 Research Design
- DENG 701A Interdisciplinary Conf
- OBIO 721 Introduction to Extracellular Matrices
- OBIO 722 Introduction to Host Pathogens Interactions
- OPER 701A Operative Dentistry Seminar
- OPER 702A Operative Literature Review
- OPER 736A Graduate Dental Biomaterials
- OPER 790A Operative Dentistry Clinic
- PERI 820 Introduction to Implants

First Year - Spring Semester

- DENG 701B Interdisciplinary Conf
- DENG 702 Biostatistics
- OPER 701B Operative Dentistry Seminar
- OPER 702B Operative Literature Review
- OPER 704A Operative Dentistry Seminar
- OPER 736B Graduate Dental Biomaterials
- OPER 790B Operative Dentistry Clinic
- ORAD 706 Advanced Oral Radiology

Second Year - Summer Semester

- OPER 790C Operative Dentistry Clinic

### Second Year - Fall Semester

- DENG 702A Interdisciplinary Conf
- DENG 703 Applied Research Methods
- OPER 701C Operative Dentistry Seminar
- OPER 702C Operative Literature Review
- OPER 790D Operative Dentistry Clinic

### Second Year - Spring Semester

- DENG 702B Interdisciplinary Conf
- OPER 702D Operative Literature Review
- OPER 704B Operative Dentistry Seminar
- OPER 738 Clinical Research Methods
- OPER 790E Operative Dentistry Clinic
- OPER 903B Operative Dentistry Research II - Thesis Material

### Third Year - Summer Semester

- OPER 790G Operative Dentistry Clinic

### Third Year - Fall Semester

- OPER 790G Operative Dentistry Clinic
- OPER 993 Thesis Development

### Third Year - Spring Semester

- OPER 790G Operative Dentistry Clinic
- OPER 993 Thesis Development

### Outcomes assessment methods:

Degree candidates are required to carry out an original research project and submit an approved thesis. Preliminary review of the literature and selection of a research topic should ordinarily be completed by the end of the first semester of the program. Prior to starting the project, the candidate must submit a research protocol, approved by the candidate's committee. Completion of the research and preparation of the thesis constitute an ongoing activity over the remainder of the program, culminating in the final Defense of Thesis examination by the student's graduate committee.

The members of the student's graduate committee will conduct preliminary oral and written examinations (required of both degree and certificate candidates), covering essentially the candidate's field of study. The candidate must complete these examinations six months prior to the intended date of graduation. The

student is eligible to take these examinations upon completion of one-half of the didactic course work.

Each course utilizes Written and Oral Examination with periodic faculty evaluation and clinical performance evaluation.

Minimum length of the program:

3 Years

Certificate and/or degree awarded upon completion:

Master of Science and/or Certificate.

Number of enrolled individuals per year for at least the past 5 years:

<u>Year</u>	<u>Enrolled</u>
2013	9
2012	9
2011	9
2010	5
2009	2

Number of graduates per year for at least the past five years:

<u>Year</u>	<u>Graduates</u>
2013	3
2012	2
2011	1
2010	0
2009	0

See Tab 3, Exhibit G. for details.

\* If the established education programs have been in existence less than five years, provide information since their founding.

- c. Document how many programs in the education area would seek voluntary accreditation review, if available.

Sponsoring Institution

Would Seek Accreditation

Boston University

Unknown

Indiana University

Yes

NOVA Southeastern University

Unknown



University of California at Los Angeles	Yes
University of Iowa	Yes
University of Michigan	Yes
University of North Carolina	Yes

4. **The education programs are the equivalent of at least one 12-month full-time academic year in length. The programs must be academic programs sponsored by an institution accredited by an agency recognized by the United States Department of Education or accredited by the Joint Commission on Accreditation of Healthcare Organizations or its equivalent rather than a series of continuing education experiences.**

a. Document the minimum length of the program for full-time students

<u>Sponsoring Institution</u>	<u>Minimum Length (yrs.)</u>
Boston University	1
Indiana University	2
NOVA Southeastern University	2
University of California at Los Angeles	1
University of Iowa	3
University of Michigan	3
University of North Carolina	3

See Tab 3, Exhibits A. through G. for further documentation.

b. Provide evidence that a certificate and/or degree is awarded upon completion of the program

<u>Sponsoring Institution</u>	<u>Degree/Certificate Awarded</u>
Boston University	MSD, PhD, or Certificate
Indiana University	MSD
Nova Southeastern University	MS or Certificate
University of California at Los Angeles	Certificate
University of Iowa	MS or Certificate
University of Michigan	MS or Certificate
University of North Carolina	MS or Certificate

See Tab 3, Exhibits A. through G. for documentation.

c. Provide copies of the program's recruitment materials (e.g., bulletin, catalogue)

Most operative dentistry programs do not publish hard copy recruitment materials. They rely on online websites to provide prospective residents with information about their program and application procedures. See Tab 4, Exhibits A. through D. and Tab 3, Exhibits A. through G. for documentation.

d. Provide other evidence that the programs are bona fide higher education experiences, rather than a series of continuing education courses (e.g., academic calendars, schedule of classes, and syllabi that address scope, depth and complexity of the higher education experience, formal approval or acknowledgment by the parent institution that the

courses or curricula in the education area meet the institution's academic requirements for advanced education)

All operative dentistry programs are in dental schools sponsored by major accredited universities, and their dental schools are ADA CODA accredited. See Tab 4, Exhibit E. for documentation from the U.S Department of Education accreditation database.

The curricula of the programs reflect the fact that the operative dentistry programs are multi-year full time intramural academic programs that involve scholarly research, including publication of research results. See Tab 3, Exhibits A. through G.

**5. The competence of the graduates of the advanced education programs is important to the health care of the general public.**

- a. Describe the need for appropriately trained individuals in the general dentistry area to ensure quality health care for the public

The need for appropriately trained providers in operative dentistry is demonstrated by data in the ADA 2005-06 Survey of Dental Services Rendered. That survey reported that general dentists in private practice provided 220,281,060 Restorative (CDT D2000-D2999) procedures in the United States during the period of the study. These Restorative procedures were exceeded by only Diagnostic and Preventive procedures, for both general dentists and all dentists. Also, Restorative procedures were provided by general dentists 22 times more frequently than the next highest specialty group Pediatric Dentists, who performed 10,735,510 Restorative procedures in the survey. Based on these estimates, Restorative procedures are 13% of all procedures general dentists do for their patients. See Tab 5, Exhibit A.

The need for providers of these services is so great, and unmet, that dental therapists are being trained and licensed to address an access to restorative care problem in underserved areas. There is ongoing debate concerning the training and qualifications of these therapists, but the fact that dental therapists exist points up the need for appropriately trained individuals in this area. In fact, operative dentists were in the forefront of addressing this problem in the 1970s when the U.S. Department of Health, Education and Welfare established project ACORDE to develop expanded function auxiliaries. This involvement allowed operative dentists to be involved in setting training requirements and standards that continues to this day. See Tab 5, Exhibit C.

- b. Describe current and emerging trends in the general dentistry education area

The growth in the number of operative dentistry programs is a positive trend in operative dentistry education. Fifteen years ago, there were 4 programs. Today there are 7.

The concept of evidence based dentistry has been a factor in the teaching of operative dentistry for years, and is still changing the way operative dentists are teaching today.

Dental implants are an established part of the profession today and the restoration of these implants requires advanced training and skills that are increasingly included in the operative dentistry curriculum.

Esthetic dentistry is becoming an ever larger part of the practice of operative dentistry and the operative dentistry curriculum. Within that discipline, vital dental bleaching is a contentious area, with non-dentist providers making inroads into the provision of this treatment. Operative dentists are playing a role in establishing the

scientific basis for vital bleaching and trying to keep it within the purview of the dentist.

Dental therapists are an emerging subset of providers in the profession. There is a role for operative dentists in developing and maintaining criteria and standards for these providers, and providing their training, oversight, and quality control.

New developments in restorative dental materials are an ongoing factor in dental education. The search for a viable amalgam substitute continues, and operative dentists are in the forefront, working with dental materials experts to develop this new class of dental materials. Meanwhile, the need to teach the basics of amalgam preparation and material handling to pre-doctoral students remains, as does the need to provide and teach complex amalgam techniques to new dental school graduates. This teaching falls to the operative dentists, wherever they are located. Every year brings new “generations” of adhesive materials, and the need to update educational materials in that area. Adhesive dentistry has been an evolving discipline for decades, and will continue to be for the foreseeable future. This creates a need for operative dentists to take the lead in maintaining currency in this area and to constantly re-evaluate the validity of new assertions about adhesive materials and techniques.

In compliance with Moore’s Law, technological innovations are occurring more and more frequently. Operative Dentistry now publishes some articles in an online format only. All manuscript submissions went to a digital format years ago. Operative dentistry educators, scientists, and even clinicians, must be more and more capable of working in this digital environment to remain active and informed. One example of the digitization of clinical operative dentistry is CAD/CAM restorations. These restorations are becoming better and more common. Now it is possible to provide single appointment metal, ceramic, resin, or hybrid inlays, onlays, veneers, crowns, and even short span bridges with excellent fit and superb mechanical properties, when done properly. To provide these restorations properly requires a separate skill set and knowledge base that must be learned. The use of lasers is another example. Operative dentists are using lasers to prepare teeth, improve bond strength of restorations, improve marginal sealing of restorations, treat root caries, and decrease patient discomfort during restorative procedures. This technology is now being taught at the pre-doctoral level in some dental schools, requiring trained and experience faculty to provide that education.

- c. Document that dental health care professionals currently provide health care services in the identified area
  1. The existence of organizations such as the Academy of Operative Dentistry, the American Board of Operative Dentistry, Inc., the Consortium of Operative Dentistry Educators (CODE), the Operative Dentistry Section of the American Dental Education Association, and, the Academy of Restorative Dentistry is evidence that dental health care professionals currently are actively involved in the teaching and practice of operative dentistry.

2. The ADA 2005-06 Survey of Dental Services Rendered reports that general dentists in private practice provided more than 220.2 million Restorative (CDT D2000-D2999) procedures (out of a total of over 1.6 billion procedures of all codes) in the United States during the period of the survey. This estimate confirms that dental health care professionals currently provide health care services in operative dentistry. See Tab 5, Exhibit A.

d. Provide evidence that the area of knowledge is important and significant to patient care and dentistry

1. The need for access to basic restorative care is so important to patient care and dentistry that some states have begun licensing mid-level dental providers. To quote from Lowell Dempsey on the W. K. Kellogg Foundation website, <http://www.wkkf.org/news/articles/2012/04/nash-report-is-evidencethat-dental-therapists-...> “In the United States, dental therapists practice in Alaska and Minnesota, but there is movement in other states to use these providers to expand access to needed dental care. Numerous federal reports, the Institute of Medicine, states, tribes and foundations, such as the Kellogg Foundation and the Pew Charitable Trusts, have recommended exploring midlevel providers, such as dental therapists, as a way to solve the current dental access crisis.” The use of dental therapists, and the debate that surrounds it, may not be the best solution to this access to care problem, but it is a sign or symptom of how important restorative dental care is to the public. See Tab 5, Exhibit B.

2. The ADA 2005-06 Survey of Dental Services Rendered reveals that general dentists in private practice provided more Restorative (CDT D2000-D2999) procedures in the United States during the period of the study than any other CDT Code groups except Diagnostic (CDT D0100-D0999) procedures and Preventive (CDT D1000-D1999) procedures. For general dentists, the next closest clinical code group was Oral and Maxillofacial Surgery (CDT D7000-D7999) only 13% as many procedures (29.5 M v. 220.3 M), demonstrating the magnitude and significance of operative dentistry as a part of general dentistry. See Tab 5, Exhibit A.

e. Document that the general dentistry programs comply with the ADA *Principles of Ethics and Code of Professional Conduct*, as well as state and federal regulations.

1. All programs are located in dental schools that are ADA CODA accredited, and therefore comply with CODA accreditation standards for ethics, professional conduct, and state and federal regulations (see Section 3.b.).

2. In addition, the Bylaws of The American Board of Operative Dentistry, Inc. require that its boarded members comply with “the Code of Ethics of the American Dental Association.” See Tab 5, Exhibit D.

**COUNCIL ON DENTAL EDUCATION AND LICENSURE  
PERMISSION TO PUBLISH  
APPLICATION  
for  
Recognition as an Interest Area in General Dentistry**

The American Dental Association ("ADA"), through its Council on Dental Education and Licensure, makes recommendations on the recognition of general dentistry interest areas and in that capacity obtains applications for recognition of interest areas in general dentistry including exhibits and supplemental material (the "Application"). The undersigned hereby grants its full permission and authorization to ADA to republish, post and otherwise use or make available the application in various ADA publications, including but not limited to ADA's website currently located at [www.ada.org](http://www.ada.org). Furthermore, the undersigned consents to the reproduction, display, transmission and use of the Application by ADA on a perpetual basis, worldwide, without charge, in any media now existing or hereafter created, including without limitation brochures, periodicals, Internet, Intranet, websites and CD-ROMs, and to receive or otherwise use the Application in electronic format as well as print or any other media.

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IN WITNESS WHEREOF, the undersigned, through its duly authorized representative, has executed this Agreement on this \_\_\_\_ day of \_\_\_\_\_, 2014.

The Academy of Operative Dentistry

Name of Sponsor

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

# Tab 1



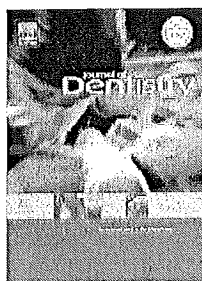
# Exhibit A.

Operative Dentistry Version 1.0 Dental providers requesting privileges in this specialty must also request privileges in General Dentistry. Scope

**P390654:** The scope of privileges in operative dentistry includes the ability to evaluate, diagnose, consult, treat and prevent diseases or trauma to teeth. Operative dentists treat patients of all ages with dental caries, malformed, worn, discolored or fractured teeth with the goal of restoring proper tooth morphology, function, esthetics and harmonious relationship with the surrounding tissues. Operative dentists may assess, stabilize, and determine disposition of patients with dental diseases and replace or repair existing restorations.

 Diagnosis and Management (D&M): **P390658:** Sialography **P390191:** Interceptive orthodontic treatment Procedures: **P390662:** Direct compacted gold restorations **P390214:** Surgical placement of endosteal implant **P390210:** Complete occlusal adjustment **P390665:** Oroantral fistula procedure **P390667:** Tooth transplantation **P390220:** Hard tissue biopsy **P390669:** Repair soft/hard tissue defect **P390671:** Restoration of multiple anterior dental implants **P390673:** Implant supported/retained removable partial denture **P390675:** Implant supported/retained complete denture **P390224:** Vestibuloplasty **P390677:** Excision of soft tissue tumor (> 1 cm) **P390679:** Periradicular surgery Other (Facility- or provider-specific privileges only):

# Exhibit B.



Sample Issue

## Journal of Dentistry

*The Journal of Dentistry* is the leading international dental journal within the field of **Restorative Dentistry**. Placing an emphasis on publishing novel and high-quality research papers, the Journal aims to influence the practice of **dentistry** at clinician, research, industry and policy-maker level on an international basis.

Topics covered include the management of **dental disease**, **periodontology**, **endodontology**, **operative dentistry**, fixed and removable **prosthodontics**, **dental biomaterials** science, long-term clinical trials including **epidemiology** and **oral health**, technology transfer of new scientific instrumentation or procedures, as well as clinically relevant **oral biology** and translational research.

*The Journal of Dentistry* will publish original scientific research papers including short communications. It is also interested in publishing review articles and leaders in themed areas which will be linked to new scientific research. Conference proceedings are also welcome and expressions of interest should be communicated to the Editor.

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### Most Cited Articles

**The application of ozone in dentistry: A systematic review of literature**  
Azarpazhooh, A. | Limeback, H.

**Polyphenols, oral health and disease: A review**  
Petti, S. | Scully, C.

**Effect of curing mode on the polymerization characteristics of dual-cured resin cement systems**  
Arrais, C.A.G. | Rueggeberg, F.A. | ...

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### Most Downloaded Articles

### Recent Articles

**Time-based lateral hygroscopic expansion of a water-expandable endodontic obturation point**  
Anthony Didato | Ashraf A. Eid | ...

**Glass ionomer ART sealants in Chinese school children—6-year results**  
Christopher J. Holmgren | Edward C.M. Lo | ...

**A new, short, specific questionnaire (QoLIP-10) for evaluating the oral health-related quality of life of implant-retained overdenture and hybrid prosthesis wearers**  
Arelis Preclado | Jaime Del Rio | ...

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### Special Issues

**Evidence for Use of Pro-Argin(TM) Mouthwash Technology for Superior DentinHypersensitivity Relief**  
Volume 41, Supplement 1 (2013)

**1. Dental implants in the medically compromised patient**

Pedro Diz | Crispian Scully | ...

**2. A new treatment alternative for sensitive teeth: A desensitizing oral rinse**

Kenneth Markowitz

**3. An overview of zirconia ceramics: Basic properties and clinical applications**

Paolo Francesco Manicone | Pierfrancesco Rossi Iommetti | ...

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Volume 40, Supplement 2 (2012)

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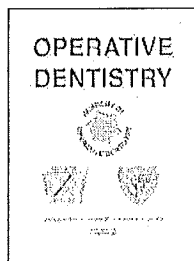
### Society News & Announcements

There is a new look and enhanced functionality for *Operative Dentistry*:

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### Vol. 38 Issue 4 (July/August 2013)



### Operative Dentistry

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 Print ISSN: 0361-7734  
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*Operative Dentistry* is a refereed, International journal published bi-monthly and distributed to subscribers in over 50 countries. In 2012, we printed 84 articles (672 pages). Papers were submitted by authors from 45 countries, in the categories of Clinical Research, Laboratory Research, Clinical Techniques/Case Presentations and Invited Papers, as well as Editorials and Abstracts.

One of the strong points of our journal is that our current publication time for accepted manuscripts is 4 to 6 months from the date of submission. Clinical Techniques/Case Presentations have a very quick turnaround time, which allows for very rapid publication of clinical based concepts. We also provide color for those papers that would benefit from its use.

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**Impact Factor Listing for journals on Dentistry, Oral Surgery & Medicine  
2012 JCR Science Edition**

**List by impact factor**

<b>Journal Title</b>	<b>2012 Total Cites</b>	<b>Impact Factor</b>	<b>2012 Articles</b>	<b>Cited Half-life</b>
Periodontology 2000	2648	4.012	36	8.3
Journal of dental research	14711	3.826	183	10.0
Clinical implant dentistry and related research	1875	3.821	123	6.9
Dental materials	8089	3.773	176	6.0
Journal of clinical periodontology	9656	3.688	159	8.6
Clinical oral implants research	8710	3.433	221	6.8
Journal of dentistry	4800	3.200	164	6.2
Journal of endodontics	9099	2.929	297	6.3
International journal of oral science	245	2.719	41	2.3
British journal of oral and maxillofacial surgery	3404	2.717	154	7.6
Oral oncology	5280	2.695	192	5.4
Molecular oral microbiology	209	2.648	37	2.1
European journal of oral implantology	258	2.571	33	2.9
Caries research	3288	2.514	67	10.0
Journal of periodontology	11846	2.398	177	9.2
Journal of orofacial pain	1172	2.387	34	9.0
Oral diseases	2422	2.377	103	5.5
Journal of oral rehabilitation	4400	2.344	108	9.2
Clinical oral investigations	1567	2.200	195	4.7
Journal of oral pathology & medicine	3597	2.055	115	8.5
International endodontic journal	3945	2.051	140	7.4
Journal of periodontal research	3129	1.990	96	9.2
The International journal of oral & maxillofacial implants	7047	1.908	174	9.4
Gerodontology	1027	1.828	226	6.4

The Journal of the American Dental Association	5627	1,822	89	>10.0
Community dentistry and oral epidemiology	3655	1,797	98	>10.0
The Journal of prosthetic dentistry	8396	1,724	106	>10.0
The International journal of prosthodontics	3243	1,625	76	9.1
Journal of cranio-maxillo-facial surgery	2310	1,610	137	7.9
Odontology	251	1,576	34	3.9
Archives of oral biology	5047	1,549	211	>10.0
International journal of oral & maxillofacial surgery	5326	1,521	256	8.3
Oral surgery, oral medicine, oral pathology and oral radiology	11451	1,495	332	>10.0
American journal of orthodontics and dentofacial orthopedics	8906	1,458	189	>10.0
European journal of oral sciences	3045	1,420	74	7.7
Implant dentistry	1297	1,404	88	6.7
Australian dental journal	1499	1,371	95	8.0
Acta odontologica scandinavica	2456	1,358	92	>10.0
BMC oral health	403	1,339	59	4.7
Journal of oral and maxillofacial surgery	11552	1,333	475	8.7
Operative dentistry	2166	1,312	77	7.9
Cleft palate-craniofacial journal	3367	1,238	117	>10.0
Journal of public health dentistry	1166	1,209	50	9.6
Orthodontics & craniofacial research	649	1,186	24	5.9
Angle orthodontist	3702	1,184	155	9.0
Dento maxillo facial radiology	1770	1,148	113	7.3
Journal of oral implantology	859	1,148	95	8.0
The Journal of cranio-mandibular practice	604	1,111	32	>10.0
The International journal of periodontics & restorative dentistry	2049	1,081	66	9.4
European journal of orthodontics	2739	1,078	123	>10.0
American journal of dentistry	1633	1,057	69	9.1
International dental journal	1597	1,040	49	>10.0



Medicina oral, patología oral y cirugía bucal	1185	1.017	182	4.2
European journal of dental education	537	1.012	62	5.4
Dental traumatology	1368	1.000	79	5.5
Journal of dental education	2380	0.989	154	7.7
Head & face medicine	269	0.981	36	4.8
Journal of esthetic and restorative dentistry	560	0.957	39	6.7
Community dental health	1039	0.932	58	>10.0
International journal of paediatric dentistry	1038	0.924	62	6.5
The Journal of adhesive dentistry	1074	0.905	64	6.4
Swedish dental journal	636	0.898	5	>10.0
British dental journal	3374	0.811	133	>10.0
Dental materials journal	1154	0.809	113	5.1
International journal of dental hygiene	344	0.802	41	4.5
Journal of applied oral science	754	0.797	104	4.1
Oral and maxillofacial surgery clinics of North America	336	0.727	52	4.8
Quintessence international	1884	0.710	20	9.9
Journal of orofacial orthopedics	508	0.694	36	7.3
Journal of prosthodontics	1039	0.681	94	5.3
Journal of the Canadian Dental Association	1020	0.624	45	9.0
Pediatric dentistry	1351	0.563	46	9.9
Korean journal of orthodontics	165	0.537	33	4.3
Oral health & preventive dentistry	417	0.521	48	6.2
European journal of paediatric dentistry	221	0.515	67	6.0
Australian endodontic journal	186	0.500	21	5.4
Revue de stomatologie et de chirurgie maxillo-faciale	295	0.388	71	7.2
Journal of dental sciences	56	0.347	61	
The Journal of clinical pediatric dentistry	529	0.340	56	8.9
Australian orthodontic journal	164	0.281	27	8.8

Implantologie	48	0.169	30
Oral radiology	57	0.167	24

# Exhibit C.

CHAPTER 3  
DENTAL CORPS SPECIAL PAYS

Section 3 - Board Certified Pay (BCP)

330. DEFINITION AND ELIGIBILITY

1. BCP is an entitlement for Dental Corps officers who are board certified in a dental specialty recognized by the American Dental Association or Board Certification Equivalency (BCE).

2. Appendix 3-H contains a list of approved certifications for BCP. If a member has a certification not listed in Appendix 3-H refer to paragraph 334 of this chapter.

3. Entitlement to BCP is effective on the date of commencement of active duty, or the date the officer becomes board certified in the specialty, whichever is later.

331. SUBMISSION REQUIREMENTS

1. To receive BCP an officer must submit a request, via the CO, to BUMED-M1C1 with a copy of a board certificate or a copy of the board's letter of notification of certification. The certificate or board letter must contain the start and end date of certification. Use example provided in Appendix 3-I.

2. The officer must submit a copy of the board notification of each successful recertification, to BUMED-M1C1. Failure to do so will result in termination of the BCP entitlement. If the board certification expires or the payment of BCP has terminated due to expiration of the board certification a new package, including all supporting documents, is required for resumption of payment.

3. COs will endorse the request, using the example in Appendix 3-I, verifying the individual's eligibility, and forward the request with endorsement to BUMED-M1C1.

332. METHOD OF PAYMENT. BCP will be paid monthly at the annual rates listed in Appendix 3-J.

333. TERMINATION OF BCP. BCP will be terminated upon expiration of the board certification, loss of certification, separation from active duty, or death.

334. BOARD CERTIFICATION EQUIVALENCY (BCE)

1. The BUMED Deputy Chief of Staff, Human Resources (BUMED-M1) may award BCE for advanced dental specialties for which a requirement is authorized by the CNO and identified by a dental specialty classification code in part C of reference (i), but for which there is no board certification recognized by the American Dental Association, nor the Chief, Dental Corps. A list of American Dental Association (ADA) and Dental Corps recognized boards are listed in Appendix 3-H. Eligibility is based on completion of a formal postgraduate specialty training program authorized by the CNO and identified in part C, of reference (i).
2. Applicants must have:
  - a. Completed a formal postgraduate dental education program of not less than 2 years leading to assignment of a subspecialty code; and have
  - b. Obtained specialty board certification when specialty boards not recognized by the ADA are available, or successfully completed a credentials review by the Dental Corps SPRB convened for that purpose.
3. Dental officers who meet the eligibility requirements must submit a request for BCE Pay per paragraph 331 above, using the example provided in Appendix 3-K. The request must include proof of postgraduate training along with proof from the certifying organization of successful completion of a specialty board (e.g., American Board of General Dentistry).
4. COs will endorse the request, using the example in Appendix 3-K, verifying the individual's eligibility, and comments regarding the dental officer's professional performance (both military and clinical). COs will forward the request with endorsement to BUMED-M1C1.
5. BUMED-M1C1 will forward the completed request to the Dental Corps Special Pays Review Board (SPRB) for recommendation. Designation of BCE is made by the Chief, Navy Dental Corps and officers approved for BCE designation will receive a formal letter of notification from the Chief, Navy Dental Corps. After Dental Corps SPRB approval of BCE designation, BUMED-M1C1 will initiate pay actions with DFAS.

28 Dec 05

**LIST OF APPROVED BOARD CERTIFICATIONS**

American Board of Oral and Maxillofacial Radiology

American Board of Dental Public Health

American Board of Endodontics

American Board of Operative Dentistry

American Board of Oral and Maxillofacial Surgery

American Board of Oral and Maxillofacial Pathology

American Board of Oral Medicine

American Board of Oral Pathology

American Board of Orofacial Pain

American Board of Orthodontics

American Board of Pediatric Dentistry

American Board of Periodontology

American Board of Prosthodontics

American Board of General Dentistry  
(The Federal Board of General Dentistry)

OPNAVINST 7220.17  
28 Dec 05

**SAMPLE BOARD CERTIFIED EQUIVALENCY (BCE) PAY REQUEST**

7220  
Date

From: LCDR John L. Doe, DC, USNR 123-45-6789/2200  
To: Chief, Bureau of Medicine and Surgery (BUMED-M1C1)  
Via: Commanding Officer, USS EVERSAIL (CV-35)

Subj: REQUEST FOR BOARD CERTIFICATION EQUIVALENCY PAY (BCE)

Ref: (a) OPNAVINST 7220.17

Encl: (1) Copy of Board of \_\_\_\_\_ ltr dated \_\_\_\_\_

1. In accordance with reference (a), I respectfully request BCE.
2. Enclosure (1) is forwarded indicating successful completion of the Board of \_\_\_\_\_.
3. Unit identification code (UIC) \_\_\_\_\_; point of contact \_\_\_\_\_, e-mail \_\_\_\_\_, and telephone Number \_\_\_\_\_.

JOHN L. DOE

OPNAVINST 7220.17  
28 Dec 05

**SAMPLE CO'S ENDORSEMENT ON  
BOARD CERTIFICATION EQUIVALENCY (BCE) PAY REQUEST**

7220  
Ser  
Date

FIRST ENDORSEMENT on LCDR John L. Doe, DC, USN,  
123-45-6789/2200 ltr 7220 of \_\_\_\_\_

From: Commanding Officer, USS EVERSAIL (CV-35)

To: Chief, Bureau of Medicine and Surgery (BUMED-M1C1)

Subj: REQUEST FOR BOARD CERTIFICATION EQUIVALENCY PAY (BCE)

Encl: (1) Certification of Completion of Formal Postgraduate  
Training  
(2) Notification of Specialty Board Certification

1. Forwarded, recommending approval.
2. Lieutenant Commander Doe meets all requirements for BCE pay as set forth in OPNAVINST 7220.17.
3. Point of contact is \_\_\_\_\_, who can be reached at (telephone number).

COMMANDING OFFICER



# Exhibit D.

## **PASS (Postdoctoral Application Support Service)**

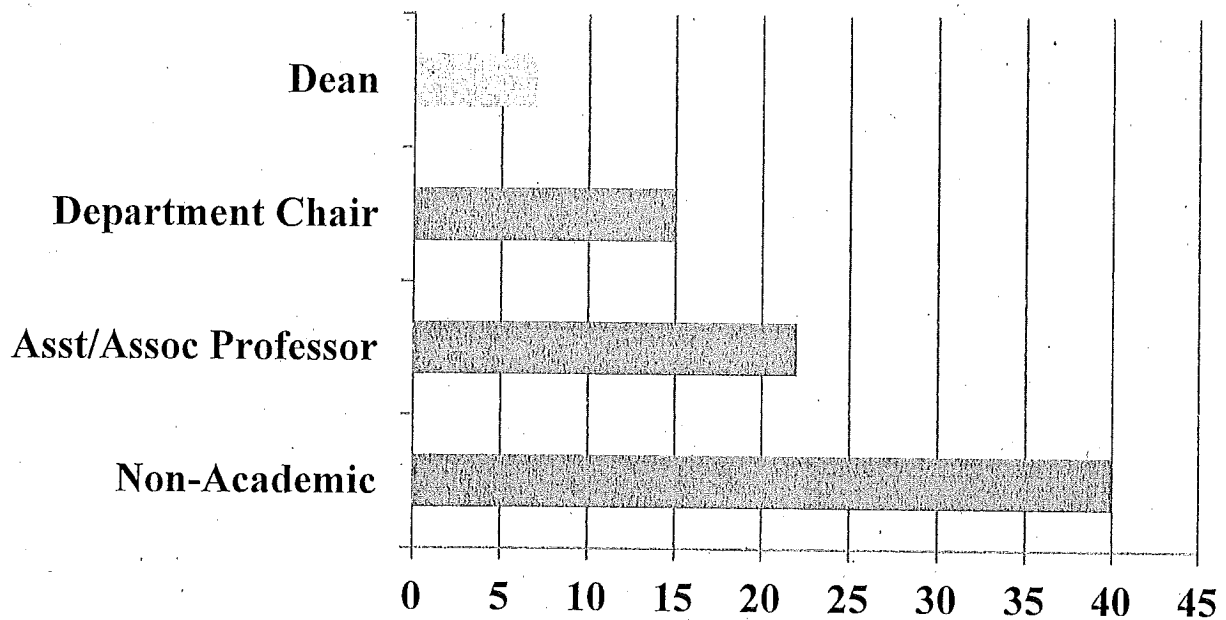
PASS is a centralized application service for dental students applying to advanced dental education programs. The PASS service simplifies the application process by providing a standardized format, relieving applicants of the need to complete multiple applications. According to the American Dental Education Association (ADEA), more than 555 U.S. postdoctoral programs participate in PASS. PASS processes applications for programs in advanced general dentistry, anesthesiology, endodontics, general practice residency, operative dentistry, oral and maxillofacial surgery, orthodontics and dentofacial orthopedics, pediatric dentistry, periodontics and prosthodontics.

For more information, contact the PASS customer service line at 617.612.2065 (available Monday through Friday, 9:00 a.m. -5:00 p.m., Eastern Time). You can also email [csrpass@adea.org](mailto:csrpass@adea.org) or [passinfo@passweb.org](mailto:passinfo@passweb.org) write to 1400 K Street NW, Suite 1100, Washington, DC, 20005-2403.

# Tab 2

# Exhibit A.

## American Board Diplomate Achievement

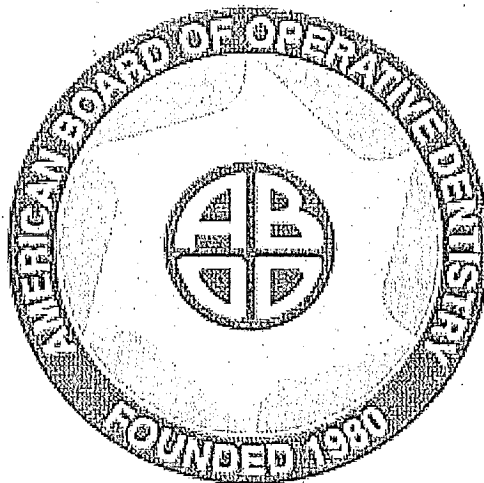


# Exhibit B.

# **THE AMERICAN BOARD OF OPERATIVE DENTISTRY, INC.**

*FOUNDED 1980 INCORPORATED 1981*

## **2010 ACTIVE MEMBERSHIP DIRECTORY**



**INCLUDING OFFICERS, COUNCILORS & COMMITTEES**

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Jan K. Mitchell, President  
Clyde L. Roggenkamp, Vice-President  
Kim E. Diefenderfer, Treasurer  
Justine L. Kolker, Secretary

## TABLE OF CONTENTS

CURRENT OFFICERS.....	1
FOUNDING AND LIFE MEMBERS.....	3
CHRONOLOGICAL LISTING OF MEMBERS.....	4
NEW MEMBERS.....	6
CURRENT ABOD MEMBERS - ADDRESSES, PHONE, E-MAIL.....	11
PAST PRESIDENTS.....	18
EXECUTIVE COUNCIL.....	18
COMMITTEE COMPOSITION.....	19
MEMBERS LISTED BY STATE AND COUNTRY.....	20

### **FOUNDING MEMBERS**

David J. Bales<sup>R</sup>  
Frank F. Bliss<sup>R</sup>  
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Charles B. Cartwright<sup>R</sup>  
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Perry H. Dungey<sup>R</sup>  
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Ralph L. Lambert  
Melvin R. Lund  
José E. Medina<sup>§</sup>  
Anthony D. Romano<sup>R</sup>  
Bruce B. Smith<sup>§</sup>  
Julian J. Thomas<sup>R</sup>

[<sup>§</sup> = Deceased, <sup>R</sup>=Retired]

### **LIFE MEMBERS**

Max Anderson  
James M. Childers  
Donald H. Downs  
Fred C. Fielder  
Dan Frederickson  
Jackson Freese  
Chester J. Gibson  
James V. Gourley  
Donna Huggins  
Robert C. Keene  
Ralph L. Lambert  
William T. Pike  
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046 2004 JUSTINE L. KOLKER, DDS  
047 2004 CHARUPHAN OONSOMBAT, DDS (KAEW)  
  
048 2006 SATTAM A. ALSHIHA, DDS<sup>1</sup>  
049 2006 CARLOS CHAVEZ, DDS  
050 2006 DAVID HARTZELL, DDS  
051 2006 KULTIP JANE KULAPONGS, DDS<sup>1</sup>  
  
052 2007 GHADA A. H. MAGHAIREH, BDS<sup>1</sup>  
053 2007 KHLOOD A. ARAB, BDS  
054 2007 ELIZABETH B. GASKIN, DMD  
055 2007 JEANETTE M. GORTHY, DMD  
056 2007 YASER S. HAMDAN, DDS<sup>1</sup>  
057 2007 MICHAEL J. METZ, DMD  
058 2007 RICHARD G. STEVENSON, DDS  
  
059 2008 VIRACHA VACHIRAMON, DDS (DEW)  
060 2008 SOPANIS D. CHO, DDS  
061 2008 DAVID W. JONES, DMD  
062 2008 MOHAMMED S. H. BIN-SHUWAISH, BDS  
063 2008 HATEM M. EL-DAMANHOURY, DDS  
064 2008 EYAD MOAZIN, BDS<sup>1</sup>  
065 2008 KAWTHER MIRZA, DDS<sup>1</sup>  
066 2008 MAAN ALSHAFFI, DDS  
067 2008 SUPATTRIYA CHUTINAN, DDS  
068 2008 CHAIYASRI THUNPITHAYAKUL, DDS(KAEW)  
069 2008 MICHAEL R. MEHARRY, DDS  
070 2008 PANIDA (BULPAKDI) TSUCHIYA, DDS

**NUMBER-YEAR-NAME**

071 2009 RICHARD SCOTT ADCOOK, DDS  
072 2009 SUPITCHA TALUNGCHIT, DDS (JTB)  
073 2009 LORENA SA, DDS  
  
074 2010 WAFA ALAMMAR, BDS  
075 2010 JUHEA CHANG, DDS  
076 2010 EMAN BAKARMAN, BDS  
077 2010 TIPAPAT ATTATHOM, DDS  
  
078 2011 SAHAR TAHA, DDS  
079 2011 MARAM SHAABIN, BDS  
080 2011 RASHA ALSHEIKH, BDS  
081 2011 FAHAD ALKHUHAIRY, BDS  
  
082 2012 MARCELA HERNANDEZ, DDS  
083 2012 SO RAN KWON, DDS  
084 2012 SAVITRI VASEENON, DDS (BOW)

[<sup>S</sup> = Deceased, <sup>R</sup>=Retired, <sup>I</sup>=Inactive]

# Tab 3

# Exhibit A.

[Home](#)[SDM Programs Operative & Esthetic Dentistry](#) CAGS in Operative & Esthetic Dentistry

# CAGS in Operative & Esthetic Dentistry

## Administration

- **Dan Nathanson, DMD, MSD**  
Chair, Department of Restorative Sciences and Biomaterials
- **John Ictech-Cassis, DMD, CAGS**  
Program Director, Post Graduate Operative and Esthetic Dentistry

## Federal Gainful Employment Disclosure

The 24-month Certificate of Advanced Graduate Study (CAGS) program offers advanced education in the conceptual, biological, and practical components of operative and esthetic dentistry. Specifically intended for students pursuing teaching careers, the program includes training in basic sciences, biomaterials, lecture presentation, research methods, and the clinical aspects of restorative dentistry. The program provides an opportunity to develop the academic and clinical skills required to participate in a dental school faculty.

Initial activities include lectures, seminars, and preclinical training with special emphasis on resin and porcelain systems. The clinical component of the program includes patient care. Particular emphasis is placed on diagnosis and treatment planning, on the significance of periodontal health, esthetic dentistry, and on conventional and implant restorative procedures. Students will also have the opportunity to utilize the latest technology of CAD-CAM units and restorations.

*\*Operative and Esthetic Dentistry is not an ADA-recognized specialty.*

## Curriculum

### Year 1

- SDM EN 820 Endodontics and Pulpal Therapy for the General Practitioner
- SDM OP 803 Seminar: Operative Dentistry
- SDM OP 807 Preclinical Technique
- SDM OP 912 Clinical Operative Dentistry I
- SDM OP 916 Literature Review–Operative Dentistry
- SDM OS 761 Medical Concerns of the Dental Patient
- SDM OS 828 Anxiety and Pain Control
- SDM OS 831 Head and Neck Anatomy
- SDM PA 801 Oral Pathology
- SDM PE 764 Current Concepts in Periodontology
- SDM PE 827 Applied Dental Pharmacology
- SDM PH 763 Bioethics and Law
- SDM PH 803 Biostatistics
- SDM PR 750 Preclinical Restorative
- SDM PR 761 Occlusion



- [SDM PR 825 Postdoctoral Biomaterials](#)
- [SDM PR 828 Esthetic Dentistry](#)
- [SDM PR 844 Implantology Literature Review](#)
- [SDM PR 845 Implantology Topics](#)
- [SDM PR 852 Implantology Topics for the General Practitioner](#)

## Year 2

- [SDM OP 913 Clinical Operative Dentistry II](#)
- [SDM PR 810 Case Presentation and Patient Care Conference](#)
- [SDM PR 813 Literature Review in General Dentistry](#)

## Related Bulletin Pages

- [Operative Dentistry Courses](#)
- [Abbreviations and Symbols](#)

## Beyond the Bulletin

- [Henry M. Goldman School of Dental Medicine](#)
- [SDM Admissions](#)
- [Student Financial Services](#)

### Programs

[Overview of Post-Doctoral Degrees and Certificates](#)

[Baccalaureate/DMD \(Seven-Year Program\)](#)

[Doctor of Dental Medicine](#)

[Dental Public Health](#)

[Endodontics](#)

[General Dentistry](#)

[Operative & Esthetic Dentistry](#)

[CAGS in Operative & Esthetic Dentistry](#)

[MSD in Operative & Esthetic Dentistry](#)

[DScD in Operative & Esthetic Dentistry](#)

[Oral Biology](#)

[Oral & Maxillofacial Surgery](#)

[Orthodontics & Dentofacial Orthopedics](#)

[Pediatric Dentistry](#)

[Periodontology](#)

[Prosthodontics](#)

[Departments](#)

[Courses](#)

[Policies](#)

[Faculty](#)

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## Accreditation

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[Home](#)[SDM Programs Operative & Esthetic Dentistry](#) MSD in Operative & Esthetic Dentistry

# MSD in Operative & Esthetic Dentistry

## Administration

- **Dan Nathanson, DMD, MSD**  
Chair, Department of Restorative Sciences and Biomaterials
- **John Ictech-Cassis, DMD, CAGS**  
Program Director, Post Graduate Operative and Esthetic Dentistry

## Federal Gainful Employment Disclosure

The MSD program requires a minimum of one year in addition to the time commitment for the **Certificate of Advanced Graduate Study (CAGS) in Operative and Esthetic Dentistry** and entails a research project, thesis, and thesis defense.

## Curriculum

In addition to the biomedical science and clinical requirements for the CAGS program below, the following are required:

### Year 1 or Year 3 of MSD

- SDM OP 991 Research: Operative Dentistry
- SDM PR 830 Advanced Biomaterials
- SDM OB 830 Research Writing

This year can be either before the CAGS or after the CAGS. This will be based on the recommendations of the chair of the department and the director of the program.

Other coursework may be assigned at the discretion of the research advisor and the department chair.

## CAGS Curriculum

### YEAR 1

- SDM EN 820 Endodontics and Pulpal Therapy for the General Practitioner
- SDM OP 803 Seminar: Operative Dentistry
- SDM OP 807 Preclinical Technique
- SDM OP 912 Clinical Operative Dentistry I
- SDM OS 761 Medical Concerns of the Dental Patient
- SDM OS 828 Anxiety and Pain Control
- SDM OS 831 Head and Neck Anatomy
- SDM PA 801 Oral Pathology
- SDM PE 764 Current Concepts in Periodontology

- SDM PE 827 Applied Dental Pharmacology
- SDM PH 763 Bioethics and Law
- SDM PH 803 Biostatistics
- SDM PR 750 Preclinical Restorative
- SDM PR 761 Occlusion
- SDM PR 812 Prosthodontics Seminar and Literature Review
- SDM PR 825 Postdoctoral Biomaterials
- SDM PR 828 Esthetic Dentistry
- SDM PR 844 Implantology Literature Review
- SDM PR 845 Implantology Topics
- SDM PR 852 Implantology Topics for the General Practitioner

## YEAR 2

- SDM OP 913 Clinical Operative Dentistry II
- SDM PR 810 Case Presentation and Patient Care Conference
- SDM PR 813 Literature Review in General Dentistry

## Related Bulletin Pages

- [Operative Dentistry Courses](#)
- [Abbreviations and Symbols](#)

## Beyond the Bulletin

- [Henry M. Goldman School of Dental Medicine](#)
- [SDM Admissions](#)
- [Student Financial Services](#)

### [Programs](#)

[Overview of Post-Doctoral Degrees and Certificates](#)

[Baccalaureate/DMD \(Seven-Year Program\)](#)

[Doctor of Dental Medicine](#)

[Dental Public Health](#)

[Endodontics](#)

[General Dentistry](#)

[Operative & Esthetic Dentistry](#)

[CAGS in Operative & Esthetic Dentistry](#)

[MSD in Operative & Esthetic Dentistry](#)

[DScD in Operative & Esthetic Dentistry](#)

[Oral Biology](#)

[Oral & Maxillofacial Surgery](#)

[Orthodontics & Dentofacial Orthopedics](#)

[Pediatric Dentistry](#)

[Periodontology](#)

[Prosthodontics](#)

[Departments](#)

[Courses](#)

[Policies](#)

**Faculty**

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# DScD in Operative & Esthetic Dentistry

## Administration

- **Dan Nathanson, DMD, MSD**  
Chair, Department of Restorative Sciences and Biomaterials
- **John Ictech-Cassis, DMD, CAGS**  
Program Director, Post Graduate Operative & Esthetic Dentistry

## Federal Gainful Employment Disclosure

A limited number of candidates are accepted into this DScD program, which takes at least three years in addition to the time commitment for the **Certificate of Advanced Graduate Study (CAGS) in Operative Dentistry** to complete. Candidates must complete all basic science and clinical requirements for the CAGS program. The program also requires that candidates complete a major research effort related to operative dentistry. This research is usually conducted in conjunction with research faculty of the University.

## Curriculum

In addition to the basic science and clinical requirements for the CAGS program below, the following is required:

### Years 1, 2, and 3

- SDM OP 991 Research: Operative Dentistry
- SDM PR 830 Advanced Biomaterials
- SDM OB 830 Research Writing

These three years can be either before the CAGS or after the CAGS. This will be based on the recommendations of the chair of the department and the director of the program.

Other coursework may be assigned at the discretion of the research advisor and the department chair.

- SDM OP 992, 993, 994 Research: Operative Dentistry

*At the discretion of the program director and/or department chair, research students may participate in clinical activities during their research years.*

## CAGS Curriculum

### YEAR 1

- SDM EN 820 Endodontics and Pulpal Therapy for the General Practitioner
- SDM OP 803 Seminar: Operative Dentistry

- SDM OP 807 Preclinical Technique
- SDM OP 912 Clinical Operative Dentistry I
- SDM OP 916 Literature Review–Operative Dentistry
- SDM OS 761 Medical Concerns of the Dental Patient
- SDM OS 828 Anxiety and Pain Control
- SDM OS 831 Head and Neck Anatomy
- SDM PA 801 Oral Pathology
- SDM PE 764 Current Concepts in Periodontology
- SDM PE 827 Applied Dental Pharmacology
- SDM PH 763 Bioethics and Law
- SDM PH 803 Biostatistics
- SDM PR 750 Preclinical Restorative
- SDM PR 761 Occlusion
- SDM PR 812 Prosthodontics Seminar and Literature Review
- SDM PR 825 Postdoctoral Biomaterials
- SDM PR 828 Esthetic Dentistry
- SDM PR 844 Implantology Literature Review
- SDM PR 845 Implantology Topics
- SDM PR 852 Implantology Topics for the General Practitioner

## YEAR 2

- SDM OP 913 Clinical Operative Dentistry II
- SDM PR 810 Case Presentation and Patient Care Conference
- SDM PR 813 Literature Review in General Dentistry

## Combined Advanced Operative Dentistry and Dental Public Health

After successfully completing two years of advanced operative dentistry and one year of dental public health, the student receives a CAGS in Operative Dentistry and an MSD in Dental Public Health. A student who completes two years of advanced operative dentistry and a minimum of three years of dental public health and dissertation receives a CAGS in Operative Dentistry and a DScD in Dental Public Health. Please note any applicant wishing to pursue this Combined Program will need to apply and be accepted into both programs.

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- [Operative Dentistry Courses](#)
- [Abbreviations and Symbols](#)

## Beyond the Bulletin

- [Henry M. Goldman School of Dental Medicine](#)
- [SDM Admissions](#)
- [Student Financial Services](#)

### [Programs](#)

[Overview of Post-Doctoral Degrees and Certificates](#)

[Baccalaureate/DMD \(Seven-Year Program\)](#)

[Doctor of Dental Medicine](#)

[Dental Public Health](#)

[Endodontics](#)

[General Dentistry](#)

[Operative & Esthetic Dentistry](#)

[CAGS in Operative & Esthetic Dentistry](#)

[MSD in Operative & Esthetic Dentistry](#)

[DScD in Operative & Esthetic Dentistry](#)

[Oral Biology](#)

[Oral & Maxillofacial Surgery](#)

[Orthodontics & Dentofacial Orthopedics](#)

[Pediatric Dentistry](#)

[Periodontology](#)

[Prosthodontics](#)

[Departments](#)

[Courses](#)

[Policies](#)

[Faculty](#)

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## Restorative Sciences/Biomaterials

- [Dan Nathanson](#), Professor; Chair
- [Rosario Alvarez](#), Clinical Assistant Professor
- [John Bowley](#), Professor
- [Maria Cancado](#), Clinical Instructor
- [Claire Chang](#), Clinical Instructor
- [Laisheng Chou](#), Professor; Director, Division of Oral Medicine; Director, Oral AIDS Clinic
- [Mohammad Hossein Dashti](#), Clinical Associate Professor
- [Stephen DuLong](#), Associate Professor; Associate Dean for Clinical Services
- [Manuel Garcia](#), Clinical Assistant Professor
- [Russell A. Giordano](#), Associate Professor of Biomaterials; Director of Biomaterials
- [Gurkan Goktug](#), Assistant Professor; Director, Prosthodontics Residents Lab
- [Andre Hashem](#), Clinical Associate Professor
- [John Ictech-Cassis](#), Clinical Professor; Director of Advanced Education Program in General Dentistry; Postgraduate Operative & Esthetics; Director, Dental Health Center
- [Matthew Jackson](#), Clinical Assistant Professor
- [Zhimon Jacobson](#), Clinical Professor; Director, Continuing Education
- [Leonard Mark](#), Clinical Associate Professor
- [Stanislava Misci](#), Clinical Assistant Professor
- [Steven M. Morgano](#), Professor; Director, Advanced Specialty Education Program in Prosthodontics
- [Richard Pober](#), Associate Research Professor
- [Kadambari Rawal](#), Clinical Assistant Professor
- [Arthur Sun](#), Clinical Associate Professor
- [Hideo Yamamoto](#), Clinical Associate Professor
- [Jonathan Zucker](#), Clinical Assistant Professor

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- [Abbreviations and Symbols](#)

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- [GSDM on Facebook](#)
- [GSDM Fact Sheet](#)
- [GSDM Admissions](#)
- [Student Financial Services](#)

[Programs](#)

[Departments](#)

[Courses](#)

[Policies](#)

[Faculty](#)

[Endodontics](#)

[General Dentistry](#)

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*CURRICULUM VITAE*

**Dan Nathanson, D.M.D., M.S.D.**

PERSONAL INFORMATION

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Lexington, Massachusetts 02173  
Tel: 781 862 2486  
Fax: 781 863 2399

Business Address: Boston University  
Goldman School of Dental Medicine  
Department of Restorative Sciences & Biomaterials  
801 Albany Street  
Boston, Massachusetts 02119  
Tel: 617 638 4703  
FAX: 617 638 5591  
e-mail: dnathan@bu.edu

Private Practice: Prosthodontic Associates  
50 Staniford Street  
Boston, Massachusetts 02114  
Tel: 617 523 5451  
Fax: 617 367 9145

EDUCATION

Predoctoral and Doctoral:	Hebrew University School of Dental Medicine Jerusalem, Israel DMD	1972
Postdoctoral:	Beth Israel Hospital Boston, Massachusetts Dental Internship Certificate	1973
	Harvard School of Dental Medicine Boston, Massachusetts Advanced Restorative Dentistry - Certificate	1975
	Forsyth Dental Center Boston, Massachusetts Clinical Research Fellowship in Dental Materials - Certificate	1976

EDUCATION  
(continued)

Boston University Goldman School of Dental Medicine Dental Public Health - MSD	1985
Boston University Goldman School of Dental Medicine Advanced Prosthodontics (Specialty) – Certificate	1990

ACADEMIC APPOINTMENTS

1975-1977	Instructor, Department of Operative Dentistry Harvard School of Dental Medicine Boston, Massachusetts
1977-1978	Assistant Professor Department of Operative Dentistry Harvard School of Dental Medicine Boston, Massachusetts
1977-1978	Adjunct Assistant Member of the Staff Forsyth Institute for Research & Advanced Study in Dentistry Boston, Massachusetts
1978-1982	Associate Professor of Restorative Dentistry Head, Operative Dentistry Division Tufts University School of Dental Medicine
1980-	Research Affiliate in Dental Materials Forsyth Dental Center Boston, Massachusetts
1981-1982 1981-1983	Head of Operative Dentistry and Head of Dental Materials Research Division Tufts University School of Dental Medicine Boston, Massachusetts
1982-1997	Professor and Chairman Department of Biomaterials Boston University Goldman School of Dental Medicine Boston, Massachusetts

- 1987 - 1992      Director  
Division of Continuing Education  
Boston University  
Goldman School of Dental Medicine  
Boston, Massachusetts
- 1992 - 2001      Assistant Dean for Continuing Education and External Affairs  
Boston University  
Goldman School of Dental Medicine  
Boston, Massachusetts
- 1997 -            Chairman  
Department of Restorative Sciences & Biomaterials  
Boston University  
Goldman School of Dental Medicine  
Boston, Massachusetts

#### RESEARCH

- 1970-1972      Fluoride Research  
Department of Oral Chemistry  
Hebrew University School of Dental Medicine  
Jerusalem, Israel
- 1974-1978      Materials for Dental Implants  
Lab and Animal Research  
Implant-Transplant Research Unit  
(Supported by NIH)  
Harvard School of Dental Medicine  
Boston, Massachusetts
- 1975-1978      Dental Materials – Clinical, Lab and Animal Research  
(Supported by grants from industry)  
Forsyth Dental Center  
Boston, Massachusetts
- 1978-1982      Dental Materials – Clinical, Lab and Animal Research  
(Supported by grants from industry)  
Tufts University School of Dental Medicine  
Boston, Massachusetts
- December 1982 -      Biomaterials/ Restorative materials  
Laboratory, Clinical and Animal Research  
(Supported by grants from industry and NIH)  
Boston University Goldman School of Dental Medicine  
Boston, Massachusetts

### CLINICAL ACTIVITIES

1975-1978	Intramural practice – Harvard School of Dental Medicine
1978-1982	Intramural practice – Tufts University School of Dental Medicine
1980	Established first dental HMO ("HILA") in Israel (during LOA from Tufts). HILA still exists with more than 10 centers around the country
1982- 1990	Part-time private practice with Dr. R. Sheldon Stein in Boston
1990-current	Part-time private practice (Limited to prosthodontics) @ Prosthodontic Associates (Dr. K. Malament) in Boston

### CONSULTING

Served as consultant to various dental manufacturing companies on product development, product evaluation and improvement, research methodology, education of company personnel, etc.

### SCHOOL COMMITTEES/ ORGANIZATION APPOINTMENTS

1979-1982	Chairman, Research Committee Tufts University School of Dental Medicine
1979-1982	Member, Executive Committee Tufts University School of Dental Medicine
1979	Member, Scientific Program Committee Society for Biomaterials
1980	Member, Scientific Program Committee Academy of Operative Dentistry
1981	Member, Finance Committee Society for Biomaterials
1982 -	Member of various Committees at BU School of Dental medicine (different periods) including: Executive Committee, Admissions, Curriculum, Postdoctoral Curriculum, Research Committee, Appointments and Promotions, Search Committees, Patient Care, External Affairs.
1984-1985	President Academy of International Dental Studies

1985-1986	President, Boston Section American Association for Dental Research
1990	Chairman, Scientific Program Committee 15th Annual Yankee Dental Congress Massachusetts Dental Society
1994-1995	Chair, Gies Award Committee American Association for Dental Research
1996	Chair Continuing Education Section American Association OF Dental Schools
1997 -2001	Treasurer International Federation of Esthetic Dentistry
1998	Chair Dental Materials Section American Association of Dental Schools
2001 -	Vice President International Federation of Esthetic Dentistry
2002 -	Executive Board member American Academy of Esthetic Dentistry

#### MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- American Dental Association (Consultant to Council on Scientific Affairs)
- Massachusetts Dental Society (past Yankee Dental Congress Scientific Chair)
- American College of Prosthodontists
- Academy of Prosthodontics (Fellow)
- American Association for Dental Research (past President, Boston Chapter)
- International Association for Dental Research
- American Academy of Esthetic Dentistry (Fellow) (Executive Board Member)
- Academy of Dental Materials (Fellow) (past Program Chair)
- Society for Biomaterials
- Alpha Omega Fraternity (past Guest Editor)
- Greater New York Academy of Prosthodontics

#### Past MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

- American College of Dentists (Fellow)
- Harvard Odontological Society
- American dental Education Association (ADEA)
- Academy of International Dental Studies (Past President)
- Greater Boston Dental Society
- International College of Prosthodontists

#### JOURNAL EDITORIAL BOARDS (Present)

- Clinical Oral Investigations
- Journal of Esthetic and Restorative Dentistry
- Practical Periodontics & Aesthetic Dentistry
- The Journal of Clinical Dentistry
- Quintessence International
- Réalités Cliniques (France)
- Independent Dentistry (GB)

#### JOURNAL REVIEW BOARDS

- Journal of the American Dental Association
- Journal of Prosthetic Dentistry
- Journal of prosthodontics

#### JOURNAL EDITORIAL BOARDS (Past)

- Alpha Omegan (Guest Editor 1988)
- Clinical Dental Briefings
- Compendium of Continuing Education in Dentistry
- Contemporary Esthetics
- Current Opinion in Dentistry
- Journal of the Israeli Dental Association
- Journal of Pedodontics

#### PUBLICATIONS (ARTICLES)

1. D. Nathanson, I. Gedalia, I. Reichstein and A. Fuks: Effects Of Fluoride



- Pretreatment or Rehardening with Calcifying Solutions on Enamel Softened by Orange Juice. *J. Dent. Res.* 52(3):625, 1973.
2. D. Nathanson, I. Gedalia and I. Reichstein: The Effect of Fluoride or Rehardening with Calcifying Solutions on Enamel Softened by Orange Juice. *Medikon* 4(8):10, 1975.
  3. L. Gettleman, D. Nathanson, R.L. Myerson and M. Hodosh: Porous, Heat Cured Poly (Methyl Methacrylate) for Dental Implants. *J. Biomed. Mater. Res. Symp.* 6: 43, 1975.
  4. L. Gettleman and D. Nathanson: Physical Properties and Biologic Acceptance of Porous Poly (Methyl Methacrylate) Use for Tooth Replicas Implanted in Long Bones of Baboons. *Proceeding of the 29th Annual Conference on Engineering in Medicine and Biology.* 18:343, 1976.
  5. L. Gettleman, D. Nathanson and R.L. Myerson: Effect of Rapid Curing Procedures on Polymer Implant Materials. *J. Prosthet. Dent.* 37(1):74, 1977.
  6. D. Nathanson, L. Gettleman P.Schnitman and G. Shklar: Histologic Response to Porous PMMA Implant Materials. *J. Biomed. Res.* 12:13, 1978.
  - 6a. Same published as abstract in *Journal of Periodontology*, 1980.
  7. L. Gettleman, D. Nathanson, G. Shklar, W. Brathwiate, L. Darmiento, P. Levine and Judes: Preliminary Evaluation of the Histotoxicity and Radiopacity of Lead-Containing Elastic Impression Materials. *JADA* 96:987, 1978.
  8. D. Nathanson and I.L. Dogon: Clinical and SEM Evaluation of a New Polishing System for Dental Composite Restorative Materials. *Transactions of the 10th Annual Biomaterials Symposium.* 2:109, 1978.
  9. L. Gettleman and D. Nathanson: Histologic Response and Physical Properties of Porous PMMA Implant Material. *Transactions of the 10th Annual Biomaterials Symposium.* 2:109, 1978.
  10. J. Ruben and D. Nathanson: The Cracked Tooth Syndrome - A Case Report. *Quintessence International* 10:15, 1978.
  - 10a. Same published as abstract in *ADA Dental Abstracts*, May 1979.
  - 10b. Translated to Japanese in Japanese edition of *Quintessence International*, Volume 8, March 1980.
  11. L. Gettleman, P. Kalis, P. Schnitman, R. Feingold, D. Nathanson, G. Shklar, M. Woolfson and L. Shulman: Clinical Evaluation Criteria of Tooth Implant Success. *J. Oral Implant.* 8(1):12, 1978.
  12. D. Nathanson and P. Lockhart: Delayed Extraoral Hypersensitivity To Dental Composite Material. *Oral Surg.* 47(4):329, 1979.

13. C.A. Evans and D. Nathanson: Indications for Orthodontic-Prosthetic Collaboration in Dental Treatment. *JADA* 99:825, 1979.
14. L. Gettleman and D. Nathanson: Confirmation of Bone Ingrowth into Porous PMMA Material. *J. Dent. Res.* 59(2):139, 1980.
15. L. Gettleman, F.H. Cocks, L.A. Darmiento, P.A. Levine, S. Wright and D. Nathanson: Measurement of the In Vivo Corrosion Rates in Baboons and Correlation With In Vitro Tests. *J. Dent. Res.* 59(4):689, 1980.
16. D. Nathanson and K. Moin: Metal Reinforced Anterior Tooth Replacement Using Acid-Etch Composite Resin Technique. *J. Prosthet. Dent.* 43(4):689, 1980.
17. J. Dunsky, J. Reuben and D. Nathanson: Surgical Endodontics in a Predoctoral Curriculum. *Quintessence International* 4:9, 1980.
18. D. Greenfield and D. Nathanson: Periodontal Splinting with Wire and Composite Resins - A Revised Approach. *J. Periodontol.* 51(8):465, 1980.
19. D. Nathanson: Is There a Need for Advanced Education in Operative Dentistry? *Operative Dentistry*, 5(2):82, 1980.
20. I. Dogon, D. Nathanson and M.J. Van Leeuwen: A Long Term Clinical Evaluation of Class IV Acid Etched Composite Resin Restorations. *Compend. Cont. Educ. Dent.* 1(6):385, 1980.
21. D. Nathanson: Posterior Splinting with Composite and Wire. *Compend. Cont. Educ. Dent.* 2(2):71, 1981.
22. D. Nathanson: The Restoration of Cervical Lesions With Composite and Acid-Etching. *Compend. Cont. Educ. Dent.* 2(5): 302, 1981.
23. D. Nathanson, J. Bodkin and J. Evans: SEM of Etching Patterns in Surface and Subsurface Enamel. *J. Pedodontics* 7(1):11, 1982.
24. D. Nathanson, J. Bodkin and J. Evans: Esthetic Class V Restorations Utilizing Light Activated Composite: A New Approach. *Compend. Cont. Educ. Dent.* 3(6):407, 1982.
25. R. Chapman and D. Nathanson: Excessive Wear of Natural Tooth Structure by Opposing Composite Restorations. *JADA* 106(1):151, 1983.
26. P. Millstein and D. Nathanson: Effect of Eugenol and Eugenol Cements on Cured Composite Resin Surface. *J. Prosthet. Dent.* 50(2):216, 1983.
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PROFESSIONAL PRESENTATIONS

IADR  
Fifth International Congress  
for Children's Dentistry  
IADR (Annual Meeting)  
Society for Biomaterials  
IADR (Annual Meeting)  
Society for Biomaterials meeting  
29th Annual Conference on  
Engineering in Medicine and Biology  
IADR (Annual Meeting)  
Harvard VA CE Program  
Harvard VA CE Program  
L.D. Caulk Symposium on  
Laminare Veneers  
Three-County Study Club  
Hebrew University School of  
Dental Medicine  
North Shore Perio-Prosthetic  
Study Club  
Academy of Operative Dentistry  
Coe-Labs Group Annual Meeting  
Peter Bent Brigham Hospital  
Fort Devens Dental Staff  
Forsyth Dental Center  
IADR (Annual Meeting)  
Tufts Dental School Faculty Workshop  
Maine National Health Corps  
International Congress of  
Israeli Dental Association  
University of Southern Illinois  
NBC Study Club  
IADR (Annual Meeting)  
NE Regional Dental Educators  
Restorative Dentistry Workshop  
Massachusetts Dental Society  
Annual Meeting  
Massachusetts Dental Society  
Maine Dental Association  
Berkshire Dental Society  
McGill University Dental School  
Greater New York Dental Meeting  
Seventh Annual Yankee Dental Congress  
Massachusetts Dental Assistants  
Association

New York, NY - March 1975

Herzlia, Israel - July 1975  
Miami, FL - March 1976  
New Orleans, LA - April 1977  
Las Vegas, NV - March 1977  
San Antonio, TX - March 1978

Boston, MA - February 1979  
New Orleans, LA - March 1979  
Hampton, MA - April 1979  
Providence, RI - April 1979

Milford, DE - August 1979  
Boston, MA - November 1979

Jerusalem, Israel - Nov 1979

Lynn, MA - December 1979  
Chicago, IL - February 1980  
Chicago, IL - February 1980  
Boston, MA - February 1980  
Shirley, MA - March 1980  
Boston, MA - March 1980  
Los Angeles, CA - Mar 1980  
Boston, MA - April 1980  
Bangor, ME - May 1980

Tel Aviv, Israel - June 1980  
St. Louis, MO - December 1980  
Waltham, MA - December 1980  
Chicago, IL - March 1981

New York, NY - March 1981

Mansfield, MA - May 1981  
Shirley, MA - May 1981  
Togus, ME - May 1981  
Lenox, MA - September 1981  
Montreal, Canada - September 1981  
New York, NY - November 1981  
Boston, MA - January 1982

Boston, MA - January 1982

Harvard Community Health Plan Dental Group	Boston, MA - February 1982
Howmedica Mid-Winter Meeting For APL Laboratories	Chicago, IL - February 1982
Vermont, New Hampshire & Maine Dental Societies, Annual Winter Meeting	Dixville Notch, NH - March 1982
Rensselaer Polytechnic Institute	Troy, NY - March 1982
IADR (Annual Meeting)	New Orleans, LA - March 1982
Manchester Dental Society	Bedford, NH - March 1982
Middlesex Dental Society	Lynn, MA - March 1982
Nice Dental Society, Annual Meeting	Nice, France - March 1982
Continuing Education Course on Laminate Veneers	Paris, France - April 1982
Monadnock Dental Society	Keene, NY - April 1982
NBC Study Club	Waltham, MA - June 1982
Continuing Education Course on Laminate Veneers (All Day)	Terre Haute, IN - June 1982
Johnson & Johnson Company Cosmetic Dentistry Symposium	East Windsor, NJ - June 1982
Northeastern Dental Society Annual Meeting	Norwich, MA - June 1982
Hadassah School of Dental Medicine	Jerusalem, Israel - July 1982
Howmedica Mid-Summer Meeting	Napa, CA - August 1982
Cape Cod Dental Society	Hyannis, MA - September 1982
Providence Dental Society	Providence, RI - September 1982
Alpha Omega Dental Fraternity	Dedham, MA - October 1982
Boston Chapter Annual Lecture	Framingham, MA - November 1982
Kerr Continuing Education Program	Athens, Greece - November 1982
International Symposium on Dental Research	Tel Aviv, Israel - November 1982
Israeli Dental Association Annual Meeting	Boston, MA - December 1982
Alpha Omega Tufts Student Chapter	Wichita, KS - December 1982
Kaylor Laboratory Dental C.E.	Hartford, CT - January 1983
Hartford Dental Society	Ocho-Rios, Jamaica - January 1983
Yankee Dental Congress	Worcester, MA - February 1983
Post Convention Seminar	Nashua, NH - February 1983
Worcester Dental Society	Chicago, IL - March 1983
New Hampshire Dental Hygienist Association Annual Meeting	Chicago, IL - March 1983
American Prosthodontic Society	Boston, MA - March 1983
Howmedica Midwinter Meeting	Boston, MA - March 1983
American Academy of Dental Science	New York, NY - March 1983
Greater Boston Dental Society	New Orleans, LA - March 1983
First District Dental Society	Boston, MA - April 1983
IADR (Annual Meeting)	Anaheim, CA - April 1983
Tufts University School of Dental Medicine	
California Dental Society Annual Meeting	



Jurieux Dentaire D'Cote D'Azur	Nice, France - May 1983
Bermuda Dental Association	
Annual Meeting	Hamilton, Bermuda - June 1983
Hebrew University-Hadassah	
School of Dental Medicine	
30th Anniversary International	
Symposium	Jerusalem, Israel - July 1983
Peninsula Hospital	Long Island, NY - October 1983
Ninth District Dental Society	Fishkill, NY - December 1983
Den-Mat's	
International Cosmetic Dentistry Symposium	Maui, HI - January 1984
Dental Continuing Education Course	Antigua, West Indies - March 1984
IADR (Annual Meeting)	Dallas, TX - March 1984
Boston University, Continuing Education	
for Italian Dentists	Boston, MA - July 1984
Seminar to Dentists - City of Boston	
Department of Health	
Boston University, Continuing Education	Boston, MA - August 1984
Healthco's Dental Expo '84	Boston, MA - October 1984
Brookdale Medical Center	Indianapolis, IN - October 1984
Medical College of Georgia	Brooklyn, NY - December 1984
Yankee Dental Congress	Augusta, GA - January 1985
Continuing Education to	Boston, MA - January 1985
General Practitioners	
Austenal Mid-Winter Meeting	Tel Aviv, Israel - January 1985
Dental Continuing Education Course	Chicago, IL - February 1985
IADR (Annual Meeting)	St. Martin, West Indies - March 1985
Fall River Dental Society	Las Vegas, NV - March 1985
International Academy of Dental Students	Fall River, MA - March 1985
Sturdy Memorial Hospital	Jerusalem, Israel - April 1985
California Dental Association Annual Meeting	Attleboro, MA - May 1985
Boston University Dental School	Anaheim, CA - May 1985
Italian Program Continuing Education	
Boston University Dental School	Boston, MA - May 1985
Northeastern Dental Society Annual Meeting	Boston, MA - May 1985
Den-Mat's Extravaganza III	Fairlee, VT - June 1985
Austenal Dental Laboratories European Meeting	Orlando, FL - August 1985
Hellenic Society for Dental Research	Arles, France - September 1985
Symposium on Bonding	Athens, Greece - September 1985
University of Western Ontario	
University of Toronto Dental School	London, Ontario - November 1985
Boston University Dental School	Toronto, Canada - November 1985
University of Pennsylvania, Dental School	Boston, MA - November 1985
Continuing Education	
Alpha Omega International Annual Meeting	Tinton Falls, NJ - December 1985
Yankee Dental Congress	Boston, MA - December 1985
Vermont State Dental Society	Boston, MA - January 1986
University of Pennsylvania	Burlington, VT - February 1986
Dental School Continuing Education	
Den-Mat's Symposium	Paramus, NJ - February 1986
IADR (Annual Meeting)	Orlando, FL - February 1986
	Washington, D.C. - March 1986

Boston University Dental School Continuing Education	Boston, MA - April 1986
Boston University Dental School Extramural Continuing Education	Greenfield, MA - April 1986
City of Boston - Dental Service Continuing Education	Boston, MA - April 1986
AO & University of Buffalo Dental School Continuing Education	Buffalo, NY - May 1986
American Dental Society of Europe Annual Meeting	Bussum, Holland - June 1986
IADR (Annual Meeting)	The Hague, Holland - June 1986
World Dental Congress	Jerusalem, Israel - July 1986
Den-Mat's Symposium	Las Vegas, NV - November 1986
Vermont Delta Dentists	Burlington, VT - November 1986
University of Pennsylvania Dental School	Philadelphia, PA - November 1986
Alpha Omega and University of Manitoba Annual Memorial Lecture	Winnipeg, Canada - December 1986
Evening CE to Dentists (Company Sponsored)	Tel Aviv, Jerusalem and Haifa, Israel - February 1987
Austenal Dental Annual Meeting	Chicago, IL - February 1987
American Academy of Restorative Dentistry	Chicago, IL - February 1987
Valley Dental Society	Springfield, MA - March 1987
IADR (Annual Meeting)	Chicago, IL - March 1987
Hinman Dental Meeting	Atlanta, GA - March 1987
Boston University Dental School	Boston, MA - April 1987
Massachusetts Dental Society Annual Meeting	Hyannis, MA - May 1987
University of Pennsylvania Dental School	Philadelphia, PA - May 1987
Den-Mat's Cosmetic Dentistry Symposium	Las Vegas, NV - May 1987
New York State Dental Society Annual Meeting	Lake George, NY - June 1987
Esthetic Dentistry Symposium	Vancouver, Canada - July 1987
Boston University Dental Seminar	Portland, MD - August 1987
Nashville Dental Society	Nashville, TN - September 1987
Cosmetic Dentistry Symposium	Brussels, Belgium - September 1987
ADA Annual Meeting	Las Vegas, NV - October 1987
Manchester Dental Society	Manchester, NH - November 1987
New York Fifth District Dental Society Annual Meeting	Syracuse, NY - November 1987
Providence Dental Society	Providence, RI - November 1987
Greater New York Dental Meeting	New York, NY - December 1987
West Metropolitan District Dental Society	Framingham, MA - December -1987
East Coast District Dental Society	Miami, FL - December 1987
Evening CE to Israeli Dentists	Tel Aviv, Israel - February 1988
Ontario Dental Association	
Posts and Cores Symposium	Toronto, Canada - February 1988
Adhesive Dentistry Symposium, 3M Company	Phoenix, AZ - March 1988
Den-Mat Cosmetic Dentistry Symposium	Melbourne, Australia - March 1988
Montgomery-Bucks Dental Society	Willow Grove, PA - April 1988
California Dental Association Annual Meeting	Anaheim, CA - April 1988
Boston University Dental School	Boston, MA - April 1988
Healthco Southern Region VII Sales Meeting	Charlotte, NC - April 1988
Den-Mat Symposium	London, England - May 1988

Connecticut Endodontic Society	New Haven, CT - May 1988
Esthetic Dental Forum	Las Vegas, NV - June 1988
The 4th International Congress	
Hellenic Society of Dental Research	Athens, Greece - June 1988
New Jersey Dental Association Annual Session	Atlantic City, NJ - June 1988
Den-Mat Special Research Forum	Santa Maria, CA - July 1988
Esthetic Dental Symposium	San Francisco, CA - August 1988
Associacao Brasileira De Odontologia	Ponta Grossa, Brazil - Sep 1988
Aesthetic Dentistry Seminar	Mallorca, Spain - September- 1988
Suffolk County Dental Society	Hauppague, NY - October 1988
ADA /FDI 1988 World Dental Conference	Washington, D.C. - October
1988Australia Esthetic Symposium	Melbourne, Australia - Oct 1988
Schenectady County Dental Society	Schenectady, NY - November 1988
Berkshire Dental Society	Pittsfield, MA - November 1988
Northwestern University, Esthetic Dentistry Series	Chicago, IL - December 1988
First District Dental Society	New York, NY - December 1988
Edmonton District Dental Society	Alberta, Canada - January 1989
Chicago Dental Society 124th	
Mid-Winter Meeting	Chicago, IL - February 1989
AADR (Annual Meeting)	San Francisco, CA - March 1989
First District Dental Society	New York, NY - April 1989
International Dental Meeting	Nice, France - May 1989
IADR (Symposium Speaker)	Dublin, Ireland - June 1989
Esthetic Dentistry Symposium	Herzlia, Israel - July 1989
Post and Core Symposium	Paris, France - September 1989
Continuing Education Program	Chambéry, France - September 1989
ADA Annual Session	Honolulu, HI - November 1989
Middlesex County Dental Society	Waltham, MA - November 1989
NJ University of Medicine and Dentistry	Newark, NJ - December 1989
Symposium in Modern Esthetic Dentistry	Tel Aviv, Israel - January 1990
Dallas Mid-Winter Meeting	Dallas, TX - January 1990
15th Annual Yankee Dental Congress	
Post Convention Seminar	Aruba, West Indies - January 1990
American Academy of Crown &	
Bridge Prosthodontics	Chicago, IL - February 1990
125th Chicago Mid-Winter Meeting	
(Live TV Presentation)	Chicago, IL - February 1990
Esthetic Dentistry Extravaganza	Orlando, FL - February 1990
Union County Dental Society	Elizabeth, NJ - March 1990
Philadelphia County Dental Society	Philadelphia, PA - March 1990
IADR (Annual Meeting)	Cincinnati, OH - March 1990
Greater Houston District Dental Society	Houston, TX - March 1990
Boston University Dental School	Stowe, VT - March 1990
District of Columbia Dental Society	Washington, D.C. - March 1990
8th World Congress on Implant	
Research (I.R.C.O.I.)	Modena, Italy - April 1990
Peninsula Hospital Center	Far Rockaway, NY - April 1990
Ontario Dental Association Annual Meeting	Toronto, Ontario - May 1990
Washington State Dental Association	Seattle, WA - May 1990
American Academy of Esthetic Dentistry	Hershey, PA - August 1990
French Society of Esthetic Dentistry	Florence, Italy - September 1990

North Shore Periodontal - Prosthetic Study Group International Symposium - Aesthetic Dentistry" Valley Forge Dental Conference American Society for Geriatric Dentistry Ohio Dental Association Harvard School of Dental Medicine Dr. Paul Goldhaber Symposium N.Y. State Fourth District Dental Society Post ADA Seminar to Dentists from Sweden Israeli Dental Association Greater New York Academy of Prosthodontics University of Delaware 16th Annual Yankee Dental Congress (Live TV Presentation) Northern District Dental Society Chicago Dental Society 126th Annual Mid-Winter Meeting South Palm Beach County Dental Association IADR (Annual Meeting) Minnesota Dental Association Sturdy Memorial Hospital- Dental CE International Symposium on Computer Restorations Third International Conference on Dental Trauma Tennessee Dental Association 124th Annual Session American Academy of Esthetic Dentistry Annual Meeting Riverside Medical Center The Genesee Hospital Three Rivers Dental Conference Greater Cleveland Dental Society Corydon Palmer Dental Society 17th Annual Yankee Dental Congress Bergen Community College Allentown Hospital Hinman Dental Meeting AADR (Annual Meeting) New York Academy of General Dentistry Connecticut State Dental Association IADR (Annual Meeting) New Orleans Dental Society District of Columbia Dental Society University of Texas at San Antonio Icelandic Dental Association Alpha Omega Dental Fraternity Italian Academy of Prosthodontics Congres Centenaire du Dentistes 1st District Dental Society	Marblehead, MA - September 1990 Munich, Germany - September 1990 Valley Forge, PA - October 1990 Boston, MA - October 1990 Columbus, OH - June 1990  Boston, MA - October 1990 Saratoga Springs, NY - Oct 1990 St. Croix, Virgin Islands - Oct 1990 Tel Aviv, Israel - November 1990 New York, NY - November 1990 Newark, Delaware - December 1990  Boston, MA - January 1991 Atlanta, GA - February 1991  Chicago, IL - February 1991 Boca Raton, FL - February 1991 Acapulco, Mexico - April 1991 Minneapolis, MN - April 1991 Attleboro, MA - April 1991  Zurich, Switzerland - May 1991  Copenhagen, Denmark - June 1991  Nashville, Tennessee - June 1991  Santa Barbara, CA - August 1991 Denville, NJ - October 1991 Rochester, NY - October 1991 Pittsburgh, PA - November 1991 Cleveland, OH - December 1991 Youngstown, OH - December 1991 Boston, MA - January 1992 Paramus, NJ - February 1992 Allentown, PA - February 1992 Atlanta, GA - March 1992 Boston, MA - April 1992 New York, NY - May 1992 Bridgeport, CT - May 1992 Glasgow, Scotland - July 1992 New Orleans, LA - August 1992 Washington, D.C. - September 1992 Las Vegas, NV - September 1992 Reykjavik, Iceland - October 1992 Natick, MA - November 1992 Verona, Italy - November 1992 Paris, France - December 1992 New York, NY - December 1992
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Societe Odontologique de Paris  
Esthetic Symposium  
American Prosthodontic Society  
American Academy of Fixed Prosthodontics  
IADR (Annual Meeting)  
Second District Dental Society  
North Coast Spring Meeting  
North Shore District Dental Society  
American Academy of Cosmetic Dentistry  
Journées Dentaires de Nice-Cote D'Azur  
Journées Dentaires de Quebec  
6th Meeting of the Japan Institute  
for Advanced Dentistry  
American Academy of Esthetic Dentistry  
Indiana University Continuing Education  
Ohio Dental Association  
Baylor University CE  
American Dental Association Annual Meeting  
American Dental Association  
Post Annual session seminar  
The Genesee Hospital  
Yankee Dental Congress  
Barbados Dental Association  
Virgin Islands Dental Association  
Cal-Lab Group - Chicago Midwinter Meeting  
IADR (Annual Meeting)  
AADS (Annual Meeting)  
Boston University Continuing Education  
New Jersey Dental Association  
Florida Dental Association  
Dentsply /Tri County Dental Association  
University of Michigan CE  
UCSF, Continuing Education Program  
Baylor College of Dentistry  
China Medical University  
North Bergen County Study Club  
Greater New York Dental Meeting  
University of Buffalo  
Yankee Dental Congress  
University of Minnesota  
South Shore District Dental Society  
Seminar in the Caribbean 1995  
AADS (Annual Meeting)  
AADR (Annual Meeting)  
Hinman Dental Meeting  
Greater Long Island Dental Association  
University of North Carolina  
5th District Dental Society  
Berkshire District Dental Society  
McGill University  
Rhode Island Dental Association

Paris, France - January 1993  
Orlando, FL - February 1993  
Chicago, IL - February 1993  
Chicago, IL - February 1993  
Chicago, IL - March 1993  
New York, NY - March 1993  
Cleveland, OH - April 1993  
Peabody, MA - April 1993  
Miami, FL - April 1993  
Nice, France - May 1993  
Montreal, Canada - May 1993  
  
Tokyo, Japan - August 1993  
Los Angeles, CA - August 1993  
Indianapolis, IN - September 1993  
Columbus, OH - September 1993  
Dallas, TX - October 1993  
San Francisco, CA - November 1993  
  
Napa, California - November 1993  
Rochester, NY - December 1993  
Boston, MA - January 1994  
Christchurch, Barbados - Feb. 1994  
St. Thomas, V.I. - February 1994  
Chicago, IL - February 1994  
Seattle, WA - March 1994  
Seattle, WA - March 1994  
San Juan, Puerto Rico - March 1994  
Atlantic City, NJ - June 1994  
Orlando, FL - June 1994  
York, PA - September 1994  
Ann Arbor, MI - September 1994  
San Francisco, CA - October 1994  
Dallas, TX - October 1994  
Shenyang, China - November 1994  
Woodcliff Lake, NJ - November 1994  
New York, NY - November 1994  
Buffalo, NY - December 1994  
Boston, MA - January 1995  
Minneapolis, MN - January 1995  
Randolph, MA - February 1995  
San Juan, PR - February 1995  
San Antonio, TX - March 1995  
San Antonio, TX - March 1995  
Atlanta, GA - March 1995  
Long Island, NY - April 1995  
Chapel Hill, NC - April 1995  
Rochester, NY - April 1995  
Pittsfield, MA - May 1995  
Montreal, Canada - May 1995  
Providence, RI - May 1995

IADR (Annual Meeting)	Singapore - June 1995
Mahidol University	Bangkok, Thailand - July 1995
Cape Cod Dental Society	Hyannis, MA - September 1995
Ohio Dental Association	Columbus, OH - September 1995
University of Michigan	Ann Arbor, MI - September 1995
American Dental Association	Napa, CA - October 1995
Maimonides Dental Society	Washington D.C., October 1995
Eames Study Group	Atlanta, GA - November 1995
Swedish Dental Association Annual Meeting	Stockholm, Sweden - Nov 1995
Israel Dental Association Annual Meeting	Tel Aviv, Israel - January 1996
Yankee Dental Congress	Boston, MA - January 1996
District of Columbia Dental Society	Washing D.C. - February 1996
Baylor College of Dentistry CE	Dallas, TX - March 1996
IADR (Annual Meeting)	San Francisco, CA - March 1996
AADS (Annual Meeting)	San Francisco, CA - March 1996
GC International Symposium	Yokohama, Japan - March 1996
California Dental Association	Anaheim, CA - April 1996
Boston University CE	San Juan, Puerto Rico - April 1996
Crown-Tech Labs	Ontario, Canada - April 1996
Boston University Dental School	Brewster, MA - April 1996
First District Dental Society	New York, NY - May 1996
Academy of Prosthodontics	Newport Beach, CA - May 1996
Canadian Association of Prosthodontists	Montreal, Canada - May 1996
Sociedade Brasileira de Odontologia Estetica	Rio de Janeiro, Brazil - May 1996
Alabama Dental Association	Orange Beach, AL - June 1996
7th District Dental Society	Rochester, NY - September 1996
The University of North Carolina, Dental School	Chapel Hill, NC - September 1996
American Dental Association	Orlando, FL - September 1996
Davis Schottlander & Davis Ltd. Dental CE	Birmingham, UK - October 1996
Arizona Dental Association	Phoenix, AZ - November 1996
Dallas Mid-Winter Dental Clinic	Dallas, TX - January 1997
Yankee Dental Congress	Boston, MA - January 1997
Asociacion Congreso Cientifico Odontologico	San Juan, Costa Rica - Feb 1997
Chicago Dental Society	Chicago, IL - February 1997
AADS (Annual Meeting)	Orlando, FL - March 1997
18th Anniversary - Khon Kaen University	Khon Kaen, Thailand - March 1997
International Federation of Esthetic Dentistry	Kyoto, Japan - April 1997
University of Minnesota	Minneapolis, MN - April 1997
Connecticut State Dental Association	Cromwell, CT - May 1997
Florida Dental Laboratory Association	Orlando, FL - May 1997
University of Missouri	Kansas City, MO - June, 1997
"Dentists of the World" Meeting	Konstanz, Germany - July 1997
Boston University - Goldman Symposium	Boston, MA - September 1997
University of Buffalo	Buffalo, NY - September 1997
Seattle Study Group	New York, NY - October 1997
Norwegian Dental Association	Trondheim, Norway - October 1997
University of Louisville	Louisville, KY - October 1997
University of Pennsylvania	New Jersey - November 1997
Argentina Dental Society	Buenos Aires, Argentina - Nov 1997
Denplan Conventi on	Strattford, England - Nov. 1997
Greater N.Y. Academy of Prosthodontics	New York, NY - December 1997

University of Missouri  
Miami Winter Meeting  
Greater Washington DC Alumni  
AADS (Annual Meeting)  
AADR (Annual Meeting)  
Columbus Dental Society  
University of Minnesota  
Metropolitan West Dental Society  
University of North Carolina  
IADR (Annual Meeting)  
Academy of General Dentistry  
University of North Carolina  
Academy of General Dentistry  
Dental Manufacturers of America  
University of Buffalo  
University of Washington  
ADA Annual Meeting  
Yankee Dental Congress  
New York BU Alumni CE  
Dental Manufacturers of America  
American Academy of Fixed Prosthodontics  
Connecticut State Dental Association  
McComb Dental Society  
Greater New York Dental Meeting  
Yankee Dental Congress  
Peninsula Study Club  
American Prosthodontic Society  
Franklin Intl Conference  
Valley Forge Dental Conference 2000  
ADA Annual Session  
Berkshire District Dental Society  
American College of Prosthodontists  
World Dental Federation (FDI)/ ADF  
Sullivan-Schein Seminar (all day CE)  
University of Medicine and Dentistry of NJ  
Chicago Dental Society, Mid Winter Meeting  
Boston University Sch of Dental Medicine CE  
Asia Pacific Dental Congress  
Sullivan-Schein Seminar  
Turkish Dental Association Annual Meeting  
IADR Annual Meeting  
Turkish Academy of Esthetic Dentistry  
ADA Annual meeting  
NY 9th District Dental Society  
Greater NY Dental Meeting  
Yankee Dental Congress  
Sullivan Schein Seminar  
CAL Labs Annual Meeting  
American Academy of Fixed Prosthodontics  
IADR Annual meeting  
Boston University Sch of Dental Medicine CE

Kansas City, MO - December 1997  
Miami, FL - January 1998  
Washington, DC - February 1998  
Minneapolis, MN - March 1998  
Minneapolis, MN - March 1998  
Columbus, OH - March 1998  
Minneapolis, MN - April 1998  
Framingham, MA April 1998  
Myrtle Beach, SC - June 1998  
Nice, France - June 1998  
Boston, MA - July 1998  
Myrtle Beach, SC - June 1998  
Boston, MA - June 1998  
Coeur d' Alene, Idaho - July 1998  
Buffalo, NY - October 1998  
Seattle, WA - October 1998  
San Francisco, CA - October 1998  
Boston, MA - January 1999  
New York, NY - February 1999  
Chicago, IL - February 1999  
Chicago, IL - February 1999  
Foxwoods, CT - May 1999  
Clinton Twp., MI - November 1999  
New York, NY - November 1999  
Boston, MA - January 2000  
Woodmere, NY - February 2000  
Chicago, IL - February 2000  
Mexico City - June 2000  
King of Prussia, Pa - Sep 2000  
Chicago, IL - Oct 2000  
Lenox, Ma - Oct 2000  
Waikoloa, Hawaii - Nov 2000  
Paris, France - Nov 2000  
Pittsburgh, Pa - Feb 2001  
West Orange, NJ - Feb 2001  
Chicago, Ill - Feb 2001  
Los-Angeles, CA - Mar 2001  
Taipei, Taiwan - Apr 2001  
New Orleans, LA - May 2001  
Istanbul, Turkey, Jun 2001  
Chiba, Japan - Jun 2001  
Istanbul, Turkey - Sep 2001  
Kansas City, MO - Oct 2001  
White Plains, NY - Oct 2001  
New York, NY - Nov 2001  
Boston, MA - Jan 2002  
Boca Raton, FL - Feb 2002  
Chicago, IL - Feb 2002  
Chicago, IL - Feb 2002  
San Diego, CA - Mar 2002  
San Juan, PR - Mar 2002

Maryland Academy of General Dentistry	Baltimore, MD – May, 2002
Journées Dentaires de Quebec and	
Canadian Dental Assoc Centennial Meeting	Montreal, Canada - May 2002
Esthetic Professionals	Los Angeles, CA – Jul, 2002
Glidewell Laboratories	Newport Beach, CA – Jul 2002
BU Symposium: "Future of Dentistry"	Boston, MA – Sep 2002
Francis Vedder (C&B) Society (2 Day CE)	Traverse City, MI – Sep 2002
American Academy & International Federation	
of Esthetic Dentistry (World Congress)	Arlington, VA – Oct 2002
BU Endodontic Alumni Association	Las Vegas, NV – Oct 2002
ADA Annual meeting	Mew Orleans, LA – Oct 2002
Yankee Lab (Evening course on C&B)	Hartford, CT – Oct 2002
New York Dental Society (All day CE)	New York, NY – Nov 2002
Dental Manufacturers of America (DMA)	New York, NY – Nov 2002
Toronto Crown & Bridge Study Club (All day CE)	Toronto, Canada – Dec 2002
University of Minnesita (All day CE)	Minneapolis, MN – Feb 2003
American Prosthodontic Society	Chicago, IL - Feb 2003
Chicago Midwinter Meeting (1 ½ days)	Chicago, IL – Feb 2003
University of NY at Buffalo	Buffalo, NY – Mar 2003
Valley Forge Dental Meeting (All day)	King of Prussia, PA – Mar 2003
AADR Annual Meeting	San Antonio, TX – Mar 2003
University of Minnesota (All-day)	St Paul, MN – Apr 2003
Academy of Prosthodontics (annual Meeting)	Boston, MA – May 2003
Valley Dental Society (All day)	Springfield, MA – May 2003
European Academy of Esthetic Dentistry	Capri, Italy – May 2003
IADR Annual Meeting	Gothenburg, Sweden – Jun 2003
Ninth District Dental Society (All day)	West Point, NY – Sep 2003
50 <sup>th</sup> Annivers. Hebrew University Dental School	Jerusalem, Israel – Sep 2003
Harvard Odontological Society	Boston, MA – Oct 2003
Boston University Tooth Whitening Forum	Boston, MA – Oct 2003
Harvard Oodntological Society	Boston, MA – Oct 2003
Greek Dental Society, Annual Meeting	Athens, Greece – Oct 2003
AO World Web cast	Tel Aviv, IL - Nov 2003
Seattle Study Club (Affiliate) – all day course	Boca Raton, FL – Nov 2003
BU Ski and Learn CE (3 days)	Stowe, VT – Dec 2003
Yankee Dental Congress	Boston, MA – Jan 2004
Seattle Study Club	Laguna Niguel, CA – Jan 2004
Chicago Dental Society (Midwinter meeting)	Chicago, IL – Feb 2004
Univ of Minnesota (All day CE)	Minneapolis, MN – Feb 2004
IADR Annual Meeting	Honolulu, HI – Mar 2004
Stark County Dent Society (All day CE)	Akron, OH – Mar 2004
NYU Dental College (OKU Seminar)	New York, NY – Apr 2004
Cleveland Acad Adv Dent Educ (All day CE)	Cleveland, OH – Apr 2004
NY County Dental Society – (All day CE)	New York, NY – Apr 2004
Russian Academy of Esthetic Dentistry	Moscow, Russia – July 2004
CARDA (Caribbean Dental Assoc)	Miami, FL – Jul 2004
Chile Academy of Rest Dentistry (2 Day)	Santiago, Chile
Connecticut Dental Society	Farmington, CT – Sep 2004
Esthetics/ Ceramics Symposium (BU)	Boston, MA – Oct 2004
Granite State Study Club	Manchester, NH – Nov 2004



American College of Prosthodontics (Review Course for Specialty Board Exams)	Chicago, IL – Nov 2004
Greater NY Dental Meeting (Full day course)	New York, NY – Dec 2004
International Meeting on Dentistry in the Nanotechnology post genomic era	Khon Kaen, Thailand – Feb 05
Dental Study Club	Seoul, Korea - Feb 2005
Chicago Midwinter Meeting (All day course)	Chicago, IL - Feb 2005
IADR	Baltimore, MD – Mar 2005
Esthetic Restorative Update (AAED)	Orlando, FL – Apr 2005
Ontario Dental Association Annual Meeting	Toronto, Canada – May 2005
Academy of Prosthodontics	Scottsdale, AZ – May 2005
Nice International Dental meeting	Nice, France – May 2005
Ivoclar Ceramic Symposium	San Diego, CA – Jun 2005
GC Summit Meeting	Lake Geneva, WI – Jun 2005
FDA Annual Session	Montreal, Canada – Aug 2005
NYU Prosthodontic Symposium	New York, NY – Sep 2005
University of Michigan (All day CE)	Saginaw, MI – Oct 2005
Sullivan Schein Symposium	Cleveland, OH – Nov 2005
Israeli Dental Association (85 <sup>th</sup> Anniv. - Keynote)	Tel-Aviv, Israel – Nov 2005
American Collge of Prosthodontists (CE)	Chicago, IL – Nov 2005
Greater New York Academy of Prosthodontics	New York, NY – Dec 2005
Lecture to CAL-Labs Annual Meeting	Chicago, IL – Feb 2006
Cambridge Study Club	Cambridge, MA – Feb 2006
AADR	Orlando, FL – Mar 2006
AO Dental Society (All-day CE)	Washington, DC – Apr 2006
Framingham Study Club	Framingham, MA – May 2006
Romanian Academy of Esthetic Dentistry (all day)	Bucharest, Romania – May 2006
NY County Dental Society (All day CE)	New York, NY – Jun 2006
IADR (Paper & Symposium)	Brisbane, Australia – Jun 2006

# Exhibit B.

# Graduate Operative Dentistry

**Program Director: N. Blaine Cook, DDS, MSD**

Professor and Director of Graduate Operative Dentistry

Department of Restorative Dentistry

Indiana University School of Dentistry

1121 W. Michigan Street

Indianapolis, IN 46202

(317)-274-5328

FAX: (317) 278-1076

**Program Graduation Requirements:**

General course requirements, thesis requirements and final examinations in fulfillment of degree requirements are described in the IUSD Academic Bulletin IUSD Academic Bulletin. The requirements for the degree or certificate may change or be amended and it will be the student's obligation to keep abreast of these changes by maintaining close contact with his/her advisor.

A MS/MSD Majors (Master of Science in Dentistry) degree is awarded upon completion of the required didactic and clinical competency program and a research project, including successful defense of a thesis.

Minimum requirements: The minimum requirements for the Operative Dentistry MSD degree include 30 hours of coursework, of which 18 hours must be devoted to didactic work. A minimum of 6 hours must be earned toward an approved minor subject outside the major concentration. Other elective subjects may be selected based on the student's educational objectives. A total of 6 hours must be in research, additional research credit cannot be used toward fulfillment of the degree.

**Application Information:**

Application Deadline: November 1

Application Process: All applicants must complete the University online application.

**Please submit the following items directly to the IUSD Office of Graduate Education and Global Engagement.**

Indiana University School of Dentistry  
Office of Graduate Education and Global Engagement  
1121 W Michigan Street, Room 280B  
Indianapolis, IN 46202

**US applicants:** US citizens who have completed their secondary education in the US

**International applicants:** A US citizen, permanent resident (green card), refugee, political asylee whose secondary education was outside of the US. Or a non-US citizen whose secondary education was outside and/or in the US.

### **Status of Application**

Applicants will receive notification of receipt of their application. The Committee will not review incomplete files; therefore, it is up to the applicant to verify status of his/her file. Completed applications will be reviewed and candidates are selected and may be invited for an interview. Following the interview process, acceptance letters and contracts will be sent to each accepted applicant.

### **Starting Date**

Admitted international students must arrive on campus the end of May in order to complete the English for Academic Purposes (EAP) placement examination. Students who are required to complete an English course as a result of the placement examination will complete this course the month of June. The MSD curriculum will begin the first week of July. We do not accept students spring semester (January).

### **Rules Determining Resident and Nonresident Student Status for Indiana University Fee Purposes**

With very few exceptions, if you enter Indiana University School of Dentistry as a non-resident, you will remain a non-resident (for fee-paying purposes) throughout your postgraduate education. Attending Indiana University School of Dentistry for one year does not entitle you to resident tuition if you are not from Indiana.

If you have any questions regarding the operative dentistry program, please email the Office of Graduate Education at [ds-grad@iupui.edu](mailto:ds-grad@iupui.edu)

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# Joint Operative and Preventive Dentistry Graduate Program

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## Program Directors

N. Blaine Cook, DDS, MSD  
Clinical Associate Professor and Director of Graduate Operative Dentistry  
Department of Restorative Dentistry  
1121 W Michigan Street  
Indianapolis, IN 46202  
(317) 274-5328  
(317) 278-1076 (fax)

and

Andrea Ferreira Zandona, DDS, MSD, PhD  
Associate Professor  
Director, Preventive Dentistry MSD and MS Programs  
Department of Preventive and Community Dentistry  
Oral Health Research Institute, Room 144  
415 Lansing Street  
Indianapolis, IN 46202  
(317) 274-8822

There is a range of private practice, academic, and research opportunities for individuals with advanced training in both Operative Dentistry and Preventive Dentistry. This MSD degree program leads to joint specialty certification in Operative Dentistry and Preventive Dentistry. Because the IU School of Dentistry and IU Medical Center are located on the campus of Indiana University Purdue University at Indianapolis (IUPUI), a unique breadth of clinical, didactic and research resources are available. Joint clinical certification in Operative Dentistry and Preventive Dentistry provides unique qualification for comprehensive preventive and therapeutic oral health care. This program is three years in length. Candidates applying for the joint Operative Dentistry/Preventive Dentistry option should make sure this is indicated on their application.

**Application Deadline:** November 1

All applicants to the Joint Operative Dentistry-Preventive Dentistry Joint Program are required to complete the online University Application. The 2014 online University Application will be available in May 2013.

Application requirements: All supplemental materials should be sent directly to:

Indiana University School of Dentistry  
Office of Graduate Education and Global Engagement  
1121 W Michigan Street, Room 104A  
Indianapolis, IN 46202

US trained dentists (or dental students)

International trained dentists: A US citizen, permanent resident (green card), refugee, political asylee whose secondary education was outside of the US or a non-US citizen whose secondary education was outside and/or in the US.

### **Status of Application:**

Applicants will receive notification of receipt of their application. The Committee will not review incomplete files; therefore, it is up to the applicant to verify status of his/her file. Completed applications are reviewed and acceptance letters and contracts will be sent to each accepted applicant.

### **Starting Date**

International students are required to arrive on campus the end of May in order to complete an English placement examination. If students are required to complete an English course as a result of this placement examination, they will complete the English course during the month of June. All MSD courses begin the first week of July. We do not accept students spring semester (January).

### Required Courses

General course requirements, thesis requirements and final examinations in fulfillment of degree requirements are describe in the IUSD Academic Bulletin. The requirements for the degree may change or be amended and it will be the student's obligation to keep abreast of these changes by maintaining close contact with his/her program director.

### **Rules Determining Resident and Nonresident Student Status for Indiana University Fee Purposes**

With very few exceptions, if you enter Indiana University School of Dentistry as a non-resident, you will remain a non-resident (for fee-paying purposes) throughout your postgraduate education. Attending Indiana University School of Dentistry for one year does not entitle you to resident tuition if you are not from Indiana.

If you have any questions concerning the application process, please contact Barb Lerner at [ds-grad@iupiu.edu](mailto:ds-grad@iupiu.edu)

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# Current Residents

---

## Palika (Poy) Luangruangrong, D.D.S.



**Home:** Bangkok, Thailand

**Dental School:** Chulalongkorn University, Bangkok, Thailand (2007)

**Career Goals:** Clinician (Private Practice/Private Hospital)

## Ashish G. Patel, B.D.S.



**Home:** Troy Michigan (originally Gujarat, India)

**Dental School:** Rajiv Gandhi University, Bangalore, India (2003)

**Internship:** Government Dental College, Ahmedabad, Gujarat (1 year)

**Career Goals:** Academia/Private Practice

## Yasser Alfawaz, B.D.S.





**Home:** Saudi Arabia

**Dental School:** King Saud University, Riyadh, Saudi Arabia (2007)

Teaching Assistant in Restoratorive Department at King Saud University

**Career Goals:** Return to King Saud University to teach Operative Den

## **Alaa Hussein Sabrah, B.D.S.**



**Home:** Sahab, Jordan

**Dental School:** Jordan University (2007)

Teaching Assistant, Jordan University

**Interests:** Treatment of Endodontically Treated Teeth

## **Sarah AlAngari, B.D.S.**



**Home:** Riyadh, Saudi Arabia

**Dental School:** King Saud University, Riyadh, Saudi Arabia (2007)

**Career Goals:** Pursue higher education, Return to being an Academic and teach in King Saud University "Operative Dentistry Division"

**Hobbies:** Travel, swimming, arts and crafts

## **Maria Fernanda Hamilton, D.D.S.**



**Home:** Cuenca, Ecuador / Indianapolis, IN

**Dental School:** Universidad de Cuenca (2005)

**Endodontics:** Uninga University, Bauru, Brazil (2006)

**Career Goals:** Earn MSD, Teaching Faculty, Private Practice, Community Service

**Hobbies:** Reading, running, watching a good movie with my hubby.

## **Amnah Algarni, B.D.S.**



**Home:** Saudi Arabia

**Dental School:** King Abdul Aziz University (2007)

**Career Goals:** Return to Saudi Arabia to work as a teacher in Taiba University. Also clinical practice.

**Hobbies:** Reading stories and novels, cooking

## **Oriana Reis Capin, D.D.S.**



**Home:** Bahia, Brazil / Indianapolis, IN

**Dental School:** Faculdade De Odontologia, Universidade Federal Da Bahia (FOUFBA), Brasil (1994)

**Career Goals:** Become a licensed dentist in the U.S. and work with community-based dental


programs. Also teaching career.

**Hobbies:** Traveling, spending time with my family and trying new restaurants.

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## Dr. N. Blaine Cook, DDS, MSD



Clinical Associate Professor of Operative Dentistry  
Director, Graduate Operative Dentistry

### Contact Info

### Office Address

### Education

- BS Zoology - Brigham Young University - 1978
- DDS - University of the Pacific School of Dentistry - 1981
- Graduate Operative Dentistry/Preventive Dentistry residency, Indiana University School of Dentistry - 1992-1995
- MSD - Operative Dentistry, Indiana University School of Dentistry - 1997

### Dental Career

- Private dental practice, Idaho Falls, Idaho, 1981-1986
- Dental Officer, United States Navy Dental Corps, 1986-2006
- Specialty Advisor for Operative Dentistry to the US Navy Surgeon General, 2000-2006
- Assistant Professor of Operative Dentistry, University of Nebraska Medical Center College of Dentistry, 2006-2009
- Clinical Associate Professor of Operative Dentistry, Indiana University School of Dentistry, 2009-Present
- Director, Graduate Operative Dentistry, Indiana University School of Dentistry, 2009-present

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## Restorative Dentistry

Welcome to the Department of Restorative Dentistry at Indiana University School of Dentistry, located on the campus of Indiana University Purdue University - Indianapolis. The Restorative Dentistry Department is combines the specialty of Prosthodontic Dentistry with the specialties of Operative Dentistry, and Dental BioMaterials. For more information about our department, click on the appropriate link below or to the left.

### Clinics

### Operative Dentistry

### Laboratory Facilities


### Faculty

The department has more than 40 full-time, part-time, and volunteer faculty members working with students in both the undergraduate and graduate courses, as well as in the clinics. Many faculty members also maintain a private practice along with their work in the school. Our faculty members stay current with developments and current issues in their specific disciplines within Restorative Dentistry by attending lectures, continuing educations courses, and conferences throughout the world and involving themselves in and overseeing various research projects.

[View Faculty Listing](#)

### Staff

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### Contact

ds-resto@iupui.edu  
(317) 278-3398 (Phone)  
(317) 278-2818 (Fax)

Indiana University School of  
Dentistry  
1121 West Michigan Street,  
Room S317  
Indianapolis, IN 46202-5186

11 | P | 1

## Faculty

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### Restorative Department Faculty

#### Chair



**Brown, David T.**

Chair, Department of Restorative Dentistry Director, Undergraduate Restorative Professor of Prosthodontics

#### Division Heads



**Platt, Jeffrey A. Platt, DDS, MS**

Associate Professor of Dental Materials  
Ralph W. Phillips Scholar in Dental Materials

#### Graduate Program Directors



**Chu, Tien-Min Gabriel, DDS, PhD**

Associate Professor and Graduate Program Director  
Adjunct Assistant Professor Department of Orthopaedic Surgery



**Cook, N. Blaine, DDS, MSD**

Clinical Associate Professor of Operative Dentistry Director, Graduate Operative Dentistry



**Levon, John A.**

Clinical Assistant Professor of Prosthodontics Director, Advanced Education Programs in Prosthodontics

**Full-time Faculty**



**Adams, Brooke N.**

Visiting Clinical Assistant Professor  
Department of Restorative Dentistry



**Agarwal, Parul**

Assistant Professor of Prosthodontics Department of Restorative Dentistry



**Barbosa, Fidel**

Clinical Assistant Professor of Prosthodontics Department of Restorative Dentistry



**Bottino, Marco C. , DDS, MSc, PhD**

Assistant Professor of Dental Biomaterials Department of Restorative Dentistry



**Browning, William D.**

Professor of Restorative Dentistry IDA Endowed Chair in Restorative Dentistry



**Cho, Sopenis (Minnie)**

Clinical Assistant Professor of Operative Dentistry Restorative Dentistry Faculty



**Haug, Steven P.**



Professor of Prosthodontics Department of Restorative Dentistry



**Kirkup, Michele Lee**

Clinical Assistant Professor of Prosthodontics Department of Restorative Dentistry



**Matis, Bruce, DDS, MSD**

Professor and Director Department of Clinical Research Section



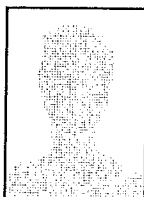
**Paez de Mendoza, Carmen Y.**

Clinical Associate Professor of Prosthodontics Department of Restorative Dentistry



**Reifeis, Paul E.**

Clinical Assistant Professor of Operative Dentistry Department of Restorative Dentistry



**Schmitt, Donald R.**

Clinical Assistant Professor of Prosthodontics Department of Restorative Dentistry



**Singh, Amul**

Visiting Clinical Assistant Professor of Operative Dentistry Department of Restorative Dentistry



**Vickery, Jeannie M.**

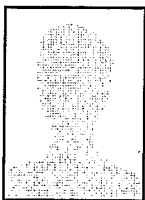
Clinical Associate Professor of Prosthodontics Department of Restorative Dentistry



**Willis, Lisa, DDS, MS**

Clinical Assistant Professor of Operative Dentistry Department of Restorative Dentistry

### **Part-time Faculty**



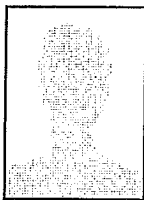
**Bussard, David A.**

Volunteer Clinical Assistant Professor of Restorative Dentistry Department of Restorative Dentistry



**Cayetano, Orlando L.**

Clinical Assistant Professor of Prosthodontics Restorative Dentistry



**Chiffert, Claude Sarah**

Clinical Assistant Professor of Operative Dentistry Restorative Dentistry



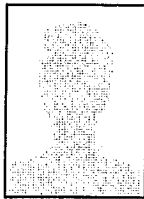
**Cochran, Michael A., DDS, MSD**

Professor Emeritus of Operative Dentistry Past Director of Graduate Operative Dentistry



**Culver, Judith A.**

Adjunct Clinical Assistant Professor Department of Restorative Dentistry



**Flannagan, Jason C.**

Clinical Assistant Professor Volunteer Clinical Assistant Professor



**Gradeless, Michael R.**

Adjunct Clinical Assistant Professor Department of Restorative Dentistry



**Hacker, Corrine H.**

Clinical Assistant Professor Restorative Dentistry



**Hovijitra, Suteera T.**

Emeritus, Associate Professor of Prosthodontics Department of Restorative Dentistry



**Hurrell, Ella**

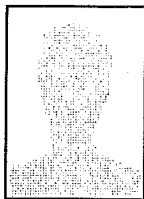
Clinical Assistant Professor of Restorative Dentistry Department of Restorative Dentistry



**Kamath, Neena**



Professor Emeritus of Dental Materials Department of Restorative Dentistry



**Powers, Eva-Marie (E'rie)**

Clinical Assistant Professor Department of Restorative Dentistry



**Sly, Marilia Mattos**

Clinical Assistant Professor of Restorative Dentistry Department of Restorative Dentistry



**Stronczek, Michael J.**

Volunteer Assistant Professor of Oral & Maxillofacial Surgery Department of Restorative Dentistry



**Stropes, L. Michael**

Assistant Professor Emeritus of Operative Dentistry Department of Restorative Dentistry



**Towns, Stephen B.**

Volunteer Clinical Assistant Professor Department of Restorative Dentistry

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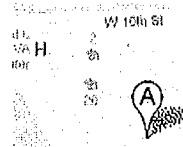
## Graduate Operative

Welcome to Graduate Operative Dentistry, a master degree program dedicated to the pursuit of excellence in restorative dentistry. A Master of Science in Dentistry (MSD) degree is awarded upon completion of didactic, clinical, and research requirements, and successful defense of a master's thesis. Our graduates are qualified to teach restorative dentistry at any level. In addition, an advanced degree in Operative Dentistry makes them highly competitive when applying for academic positions. Our residents traditionally perform well on the American Board of Operative Dentistry certification examinations. Perhaps most important, their patients benefit from their increased knowledge and clinical expertise.

## Contact

ds-grad@iupui.edu  
(317) 274-5348  
(317) 278-9066 (Fax)

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## Joint Operative Curriculum

The following is a breakdown of the curriculum sequencing in the Joint Graduate Operative Dentistry Preventive Dentistry MSD Program by semester. Only graduate core courses and program required courses are listed. Candidates are free to take electives of their own choosing whenever they will fit into their schedule.

A minor concentration in dental materials and either life sciences, microbiology or public health requires a minimum of six credit hours of the chosen area of concentration.

### **BEGINNING SUMMER SESSION (required of all School of Dentistry graduate students):**

DENT-R 955 Oral Biology I (2.5 credit hours)

DENT-G 948 Advanced Radiography (2.0 credit hours)

(These two core courses are condensed and are taken in July at the beginning of the program.)

International students, who are required to complete ENG-G 013, will complete this course in June.

*Please Note: a Cardiopulmonary Resuscitation certification course will be offered during this session for any student not currently certified in CPR. All students must be certified in CPR before beginning clinical activity, and must maintain this certification throughout their graduate program.*

### **FALL SEMESTER - FIRST YEAR**

<u>Courses</u>	<u>Credit Hours</u>
DENT-G 907 Clinical Oral Pathology Conference I	1
DENT-G 912 Properties & Test Methods: Dental Materials	2
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G952 Analysis of Operative Procedures	2
DENT-G 953 Recent Advances in Operative Dentistry	2
DENT-R 909 Advanced Preventive Dentistry I	3

### **SPRING SEMESTER - FIRST YEAR**

<u>Courses</u>	<u>Credit Hours</u>
DENT-G 909 Clinical Oral Pathology Conference II	1
DENT-G 910 Seminar: Operative Dentistry	1
DENT-G 911 Dental Materials Science and Engineering	2
DENT-G 913 Clinical Applications of Dental Materials	2

Materials	2
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 951 Interdisciplinary Role of Operative Dentistry	2
DENT-R 910 Advanced Preventive Dentistry II	3
DENT-R 941 Fundamentals of Implant Dentistry	3

### **SUMMER SESSION - FIRST YEAR**

<u>Courses</u>	<u>Credit Hours</u>
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

### **FALL SEMESTER - SECOND YEAR**

<u>Courses</u>	<u>Credit Hours</u>
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1
DENT-R 911 Advanced Preventive Dentistry III	2
DENT-G 910 Seminar: Preventive Dentistry	1
GRAD-G 651 Introduction to Biostatistics I	3

*Plus Selected Elective Courses*

### **SPRING SEMESTER - SECOND YEAR**

<u>Courses</u>	<u>Credit Hours</u>
DENT G 910 Seminar: Preventive Dentistry	1
DENT-G 925 Research: Operative Dentistry	1

DENT-G 930 Research: Preventive Dentistry	1
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 959 Oral Microbiology	3

*Plus selective elective courses*

### **SUMMER SESSION - SECOND YEAR**

<u>Courses</u>	<u>Credit Hours</u>
DENT-G.950 Advanced Clinical Operative Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

### **FALL SEMESTER - THIRD YEAR**

<u>Courses</u>	<u>Credit Hours</u>
DENT-G 950 Advanced Clinical Operative Dentistry	1
GRAD-G 660 Clinical Research Methods	2
DENT-G 910 Seminar: Preventive Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

*Plus selective elective courses*

### **SPRING SEMESTER - THIRD YEAR**

<u>Courses</u>	<u>Credit Hours</u>
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 910 Seminar: Preventive Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

*Plus Selected Elective Courses*

### **SUMMER SESSION - THIRD YEAR**

<u>Courses</u>	<u>Credit Hours</u>
DENT-G 950 Advanced Clinical Operative Dentistry	1
DENT-G 925 Research: Operative Dentistry	1
DENT-G 930 Research: Preventive Dentistry	1

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# Exhibit C.

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# Operative Dentistry

## About Program

The Department of Cariology and Restorative Dentistry offers a 24 to 36-month postdoctoral training program that is designed to fulfill the certification requirements of the American Board of Operative Dentistry. A Master of Science Degree (M.Sc.) and a Certificate in Operative Dentistry is awarded upon completion of the required core didactic courses and clinical competency program and a research project, including successful defense of a thesis. The program has been developed consistent with the objectives set forth in the ADEA (formerly AADS) Curriculum Guidelines for Postdoctoral Operative Dentistry (J Dent Educ 1993; 57: 832-836).

The Postdoctoral Operative Dentistry Program provides each graduate student an opportunity to enhance their knowledge in three main areas: research, clinical training and teaching. Participants pursue highly intensive clinical training while simultaneously following a rigorous academic curriculum which is research oriented. The following content outline embraces the essential components of the postgraduate program:

1. A Research Sciences Component

Research activities will extend the entire length of the program. Extensive research activities will begin with fundamental courses (biostatistics, research design and analysis, protocol writing, literature search engine, etc) followed by a requirement for writing a research report, publication of a paper and writing a formal thesis (and its defense before an examining committee). Students also will be exposed to preparation of abstracts of research papers, clinic tables and be encouraged to present their research project at scientific or educational meetings, as appropriate. The objective is to integrate more extensive research into the postgraduate education in preparation for an academic career in Operative Dentistry.

2. A Clinical Component

Program will be designed to offer comprehensive training in all aspects of esthetic and contemporary restorative dentistry. The curriculum includes topics such as treatment planning and smile design, ceramic veneers, ceramic posterior restorations, esthetic and metal ceramics, all ceramic systems, computer-generated ceramic restorations, composite (direct and indirect restorations), contemporary esthetic materials, periodontal esthetics, and esthetic considerations in implants. Operative Dentistry will be closely integrated with other post-graduate programs at College of Dental Medicine such as Periodontics, Prosthodontics, Orthodontics and Endodontics. Students will be presented with a broad range of clinical procedures rather than any single method of treatment, preparing graduates to manage a diversity of cases and use varying treatment modalities with special

emphasis on Esthetic Dentistry. Patients will be selected according to students' abilities. Students will be closely associated with faculty in all phases of clinical work to gain maximum experience. In addition, clinical seminars, case presentation and round table discussions will be offered throughout the entire program.

### 3. A Teaching Component

The program will provide graduate students the opportunity to gain experience in teaching. Students will be exposed to teaching experiences by participating in the undergraduate program. Opportunities to lecture, supervise preclinical and clinical activities, and prepare didactic material will be offered to students with the objective of helping to develop students' skills and experiences needed in an academic career. A senior faculty will assist, guide and evaluate the graduate student in preparation for a future academic career in Operative Dentistry.

Finally, the students will have the opportunity to take elective course work directed towards their area of special interest.

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# Operative Dentistry

## Faculty

- Dr. Audrey Levitt Galka, DDS – Chair, Section of Cariology and Restorative Dentistry; Assistant Division Chief, Primary Care
- Dr. Luana Oliveira Haas, DDS, MS, PhD - Assistant Professor, Program Director
- Dr. Steven Haas, DMD, JD – Dean of Clinics, Assistant Professor
- Dr. Amir Far, DDS – Assistant Professor
- Dr. Rafael G. Castellon, DDS, MS – Assistant Professor
- Dr. Peter Pugliese, DDS – Assistant Professor
- Dr. Carlos Villanueva, DDS, Assistant Professor
- Dr. Evren Kilinc, DDS, PhD – Associate Professor
- Dr. Mario Ramos, DDS, MS – Assistant Professor
- Dr. Jeff Thompson, PhD – Professor

## Adjunct Faculty

- Dr. Sam Sadati, DDS, FAGD, FAACD – Adjunct Professor
- Dr. Ana Maria Farias, DDS, MS – Adjunct Professor

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# Operative Dentistry

## Tuition and Fees

Click on the following link for a description of jobs related to this program:

[29-1021- Dentist, General](#)

**How much will this program cost me each year?**

- Tuition: \$53,850,00 (For both Operative Dentistry and Master of Science Programs)
- Registration fee: \$50
- Student Service fee : \$750

**Operative Dentistry/Masters Program - 1st year**

- Books: \$1,000
- Supplies : \$2,000
- Equipment: \$15,000
- Other : \$2,750

**Operative Dentistry/Masters Program - 2nd year**

- Books: \$500
- Traveling: \$2,000
- Other : \$2,575

The program is designed to take 24 to 36 months.

The estimated total cost of the program is \$138,900 not including living expenses.

**What are my financing options to pay for the program?**

In addition to any grants or scholarship aid for which they are eligible, students have taken loans to finance their education.

**Success**

The first class of postdoctoral Operative/Master of Science residents is expected to graduate in July/2013.

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# Operative Dentistry

## Curriculum - Core Courses

### course name / description

#### **Advanced Dental Radiology (CDM 5000)**

Consideration of hard and soft tissue craniofacial imaging modalities, including MRI, tomography, and digital imaging.

#### **Advanced Dental Materials (CDM 5001)**

Properties and clinical considerations in the use of today's restorative materials.

#### **Research Design (CDM 5002)**

Learn how to plan research projects, initiate the projects and effectively present the findings. Critical evaluation of the literature about the field of interest is going to be emphasized.

#### **Adv. Microbiology & Cell Biology (CDM 5003)**

Graduate training in microbiology, including virology, bacteriology, microbial genetics, and microbial pathogenesis.

#### **Advanced Oral Histology & Embryology (CDM 5004)**

Cytological and developmental considerations in embryological, fetal and neonatal human craniofacial growth and development.

#### **Fundamentals of Biostatistics (CDM 5006)**

Analysis of descriptive and inferential statistics as used in contemporary biomedical research, including electronic-based statistical programs.

#### **Ethics and Jurisprudence (CDM 5109)**

Reviews hallmarks of dental professional ethics, and aspects of the law that commonly impact on the daily practice of dentistry.

#### **Advanced Medical Physiology (CDM 5008)**

Detailed examination of cells and their transport, cardiac, pulmonary, acid base balance and fluids. Renal physiology, blood coagulation as well as blood factors will be addressed. Medical application will be part of this course. Other topics will be integrated into the above.

#### **Adv. Head & Neck Anatomy Lecture Series (CDM 5103)**

Didactic and dissection based consideration of head and neck structure and function essential to advanced dental practice.

#### **Adv. Head & Neck Anatomy Lab Series (CDM 5104)**

Laboratory based consideration of head and neck structure and function essential to advanced dental practice.

#### **Adv. Systemic Oral Medicine & Pharmacology (CDM 5106)**

Expands on the predoctoral education regarding the topic of oral medicine. The seminars will discuss current and classic literature to help refine the skills of students in interpreting a medical history and dental management of medically complex patients.

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# Operative Dentistry

## Curriculum - Departmental Courses

- Current Literature Review Seminar I, II, III and IV
- Classic Literature Review Seminar I, II, III and IV
- Advanced Treatment Planning Seminar I, II, III and IV
- Evidence Based Dentistry Course I, II, III and IV
- Research I, II, III and IV
- Thesis I, II, III and IV
- Implant Review Course
- Operative Dentistry Review Course
- Fixed Prosthodontics Review Course
- Cad Cam Restorations Course
- Advanced Cariology Course
- Academic Career in Operative Dentistry Course
- Effective Teaching, Learning, and Assessment Methodology Course
- Advanced Operative Dentistry Clinic I, II, III and IV

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# Exhibit D.

## Restorative Dentistry

### Restorative Dentistry Preceptorship Program

- Program Overview
- Admissions Requirements
- Application Procedure
- Decisions Process
- Immigration Regulations
- Health Insurance
- Contact Information

#### Program Overview

**Richard G. Stevenson, DDS**  
Program Director

The Restorative Dentistry Preceptorship Program is an intensive one-to-two-year program designed to provide internationally trained dentists with a strong fundamental understanding and advanced knowledge and skills in the realm of restorative dentistry. This is an excellent opportunity for those who seek additional restorative experience to supplement what they have already learned through formal education and/or practice in didactic, teaching, and clinical formats.

The program will include lectures and laboratory sessions in operative dentistry, fixed prosthodontics, dental radiology and occlusion, esthetic dentistry, advanced restorative dentistry, conservative cast gold study club, and graduation planning seminars. Preceptors will also work with clinical faculty when treating patients at the restorative dentistry clinic on the Westwood campus and at the Venice Dental Center.

Preceptors will be mentored by restorative dentistry faculty in both pre-clinical and clinical restorative dentistry as taught at the UCLA School of Dentistry, and will learn to improve their own teaching skills as well in pre-doctoral restorative courses. Additionally, preceptors will be encouraged to engage in a directed project in restorative dentistry research leading to a publication submission. At the conclusion of the program, preceptors will obtain the knowledge and skills equivalent to those gained through a one or two-year postgraduate training program in restorative dentistry.

*A certificate of attendance is awarded upon successful completion of the program. This certificate is not the same as a postgraduate program certificate awarded to full-time postgraduate students in specialty training as a qualification for recognition by the American Dental Association, nor is it considered in the United States as evidence of advanced specialty training.*

**Length of Program:** 1-2 years

**Number of Positions:** This program admits up to 12 preceptors at a time.

#### Tuition:

First Year: \$27,600 per year (subject to change)\*

Second Year: \$35,600 per year (subject to change)\*

*\*Please note that half of the tuition is due upon acceptance and the second half is due by the first day of the first year.*

**Dental Kit:** Preceptors will be responsible for purchasing dental supplies and an equipment kit upon arrival in Los Angeles. The approximate cost of this mandatory kit is \$7,500, and will need to be purchased through the UCLA Health Store.

*All fees, including tuition, must be paid in US dollars in the form of a check drawn from a US-affiliated bank, cash, money order, or cash made payable to UC Regents.*



#### Admissions Requirements

- Degree from a dental school accredited by the local government jurisdiction
- English language proficiency



#### Application Procedure

Applicants must submit all of the following materials:

- UCLA Preceptorship Program Application
- Official dental education transcripts translated into English
- 3 confidential reports from people with knowledge of the applicant's skills and potential
- Proof of English language proficiency for applicants with English as a second language (As of January 2013, a TOEFL score is required; an interview in English may also be required.)
- One-time, non-refundable application fee of \$150.00\*\*

All application materials must be sent directly to:

Restorative Dentistry Preceptorship Program

Office of Student Affairs  
UCLA School of Dentistry  
10833 Le Conte Ave, A0-111 CHS  
Los Angeles, CA 90095-1668 USA

If you wish to use a courier service please use the following address:

Restorative Dentistry Preceptorship Program  
Office of Student Affairs  
UCLA School of Dentistry  
Room A0-111 CHS  
650 Charles E. Young Drive South  
Los Angeles, CA 90095-1668



*Incomplete files will not be considered.*

*Photocopies of official transcripts and TOEFL scores will not be accepted.*

**Application Deadline: March 15**

**Upon Acceptance:** There is a non-refundable registration fee of \$400 due after acceptance to confirm your's program. This fee is used to cover related administrative expenses.\*\*

**\*\*All fees, including tuition, must be paid in US dollars in the form of a check drawn from a US-affiliated bank, check, money order, or cash made payable to UC Regents.**



#### Decisions Process

The admissions committee considers the following criteria in its decisions:

- Language skills
- Content of application
- Motivation
- Activities/professional experience since graduating from dental school (*Those who have been treating p desired.*)

Accepted candidates are notified by email. Decisions will be available approximately one month after the a submitted.



#### Immigration Regulations

All preceptors who are not U.S. citizens, permanent residents, or on a visa status authorized for enrollment in full-time studies must United States on an F-1 visa. The 1-20AB necessary for application for an F-1 visa is processed by the Schoc International Advisor. This is a non-immigrant visa which presumes you are in the United States for the purpoc for a limited time. The I-20AB request form will be sent to you after acceptance to the program.



#### Health Insurance

All foreign students attending UCLA are required to be insured under an adequate medical insurance plan du of registration. Medical insurance is not provided by UCLA for preceptorship students, and preceptors cannot on-campus student health facility. The School of Dentistry requires that you obtain a health clearance prior to the program for individual and community health reasons. The health clearance must include a complete phys examination and demonstration of immunity to certain communicable diseases. Annual monitoring for tubercu be necessary.



#### Contact Information

Ms. Erin Hakim  
Program Coordinator & International Advisor  
ehakim@dentistry.ucla.edu



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## Restorative Dentistry

### Restorative Dentistry Advanced Clinical Training Program

- Program Overview
- Admissions Requirements
- Application Procedure
- Decisions Process
- Immigration Regulations
- Health Insurance
- Contact Information

#### Program Overview

**Richard G. Stevenson, DDS**  
Program Director

The Restorative Dentistry Advanced Clinical Training Program is an intensive program 1-2 year designed to provide internationally trained dentists with a strong fundamental understanding and advanced knowledge and skills in the broad realm of restorative dentistry. This is an excellent opportunity for those who seek additional restorative experiences to supplement what they have already learned through formal education and/or practice in didactic, teaching, and clinical formats.

The program will include lectures and laboratory sessions in operative dentistry, fixed prosthodontics, dental morphology and occlusion, esthetic dentistry, advanced restorative dentistry, conservative cast gold study club, and graduate treatment planning seminars. Trainees will also work with clinical faculty when treating patients at the restorative dentistry clinic on the Westwood campus and at the Venice Dental Center.



Trainees will be mentored by restorative dentistry faculty and clinical restorative dentistry techniques as UCLA School of Dentistry, and will learn to improve their teaching skills as well in pre-doctoral restorative courses. Additionally, trainees will be encouraged to be directed project in restorative dentistry research leading to publication submission. At the conclusion of the program, trainees will obtain the knowledge and skills equivalent to those through a one to three-year postgraduate training program in restorative dentistry.

The program is led by Dr. Richard G. Stevenson III, CI Professor and Chair for the Division of Restorative Dentistry at UCLA since 1992, where he received the Year Award from three classes of graduating dentists. He received a Fellowship in Medical Education at the University of Medicine. In 2001, he received a Certificate in Advanced Education in General Dentistry. He is a member of many professional associations including the Academy of Operative Dentistry, and the American Academy of Gold Foil Operations.

Dr. Stevenson is the mentor of five Academy Tucker Study Clubs in Japan, Peru and the United States. Dr. Stevenson is the recipient of the ADA's Golden Award of Excellence. In 2009 the Academy of Operative Dentistry honored him with the Award of Excellence.

*Although this is not a CODA accredited program, a certificate is awarded upon successful completion of the program. The two year program has been approved by the American Board of Operative Dentistry for Challenging the ABOI Certification Examination. Many states in the U.S. allow 2-year graduates the opportunity for licensure. Please contact individual states for specific requirements.*

**Length of Program:** 1 or 2 years (applicants must first have completed the 1 year preceptorship)

**Number of Positions:** This program admits 12 trainees in the first year, 8 in the second year, and 6 in the third year.

**Tuition:**

First Year: \$36,400 per year (subject to change)\*

Second Year: \$32,780 per year (subject to change)\*

*\*Please note that half of the tuition is due upon acceptance and the second half is due by the first day of the first year.*

**Dental Kit:** Trainees will be responsible for purchasing dental supplies and an equipment kit upon arrival in the first year. The approximate cost of this mandatory kit is \$7,500, and will need to be purchased through the UCLA Health Store.

**Certificate Fee:** one-time payment of \$200

**International Student Fee:** \$1,300 (only for those requesting I-20s for F-1 student status)



Admissions Requirements

- Degree from a dental school accredited by the local government jurisdiction
- English language proficiency
- Completion of the 1 year preceptorship in Restorative Dentistry



#### Application Procedure

Applicants must submit all of the following materials:

- UCLA Application Form
- Official dental education transcripts translated into English or ECE Course-by-Course Report
- 3 confidential reports from people with knowledge of the applicant's skills and potential
- Proof of English language proficiency for applicants with English as a second language (An interview in English also be required.)
- One-time, non-refundable application fee of \$150.00 (*the application fee must be paid in US dollars in the check drawn from a US-affiliated bank, cashier's check, or money order made payable to UC Regents.*)

All application materials must be sent directly to:

Contact Information Restorative Dentistry ACT  
Office of Student Affairs  
UCLA School of Dentistry  
10833 Le Conte Ave, A0-111 CHS  
Los Angeles, CA 90095-1668 USA  
Ms. Erin Hakim  
Program Coordinator & International Advisor  
ehakim@dentistry.ucla.edu



If you wish to use a courier service please use the following address:

Restorative Dentistry ACT  
Office of Student Affairs  
UCLA School of Dentistry  
Room A0-111 CHS  
650 Charles E. Young Drive South  
Los Angeles, CA 90095-1668

*Incomplete files will not be considered.*

*Photocopies of official transcripts and TOEFL/IELTS scores will not be accepted.*

**Application Deadline: March 15**

**Upon Acceptance:** There is a non-refundable fee of \$1,300 due after acceptance for those who need an I-20 and an F-1 student visa. There is also a \$200 certificate fee to confirm your acceptance of the program. These fees are applied towards your tuition and are non-refundable.



#### Decisions Process

The admissions committee considers the following criteria in its decisions:

- Language skills
- Content of application
- Motivation
- Activities/professional experience since graduating from dental school (*Those who have been treating patients are desired.*)

Accepted candidates are notified by email. Decisions will be available approximately one month after the application is submitted.



#### Immigration Regulations

All trainees who are not U.S. citizens, permanent residents, or on a visa status authorized for enrollment in full-time study must enter the United States on an F-1 visa. The I-20AB necessary for application for an F-1 visa is processed by the School's International Advisor. This is a non-immigrant visa which presumes you are in the United States for a limited time. The I-20AB request form will be sent to you after acceptance to the program.



#### Health Insurance & Clearance

All foreign students attending UCLA are required to be insured under an adequate medical insurance plan during the duration of registration. Medical insurance is not provided by UCLA for trainees, and trainees cannot be seen at the on-campus student health facility. The School of Dentistry requires that you obtain a health clearance prior to enrollment in the program for individual and community health reasons. The health clearance must include a complete physical examination and demonstration of immunity to certain communicable diseases. Annual monitoring for tuberculosis will also be required.



Richard G. Stevenson III, D.D.S., B.S.



**Contact Information**

UCLA School of Dentistry  
33-009A CHS  
10833 Le Conte Ave  
Los Angeles, CA 90095-1668

**Phone:** (310) 794-4387

**Email:** [rstevenson@dentistry.ucla.edu](mailto:rstevenson@dentistry.ucla.edu)

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## Restorative Dentistry

### Restorative Dentistry Preceptorship

- Program Overview
- Admissions Requirements
- Application Procedure
- Decisions Process
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- Contact Information

### Program Overview

**Richard G. Stevenson, DDS**  
Program Director

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**Length of Program:** 1 year (applicants can then join the 1 or 2 year ACT program)

**Number of Positions:** This program admits 12 trainees in the first year

**Tuition:** \$34,780 per-year (subject to change)\*

*\*Please note that half of the tuition is due upon acceptance and the second half is due by the first day of the first year.*

**Dental Kit:** Trainees will be responsible for purchasing dental supplies and an equipment kit upon arrival in the first year. The approximate cost of this mandatory kit is \$7,500, and will need to be purchased through the UCLA Health Store.

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**International Student Fee:** \$1,300 (only for those requesting I-20s for F-1 student status)



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#### Application Procedure

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Program Coordinator of International Admissions fee of \$150.00 (the application fee must be paid in US dollars in the form of a check drawn on a US-affiliated bank, cashier's check, or money order made payable to UC Regents.)

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Restorative Dentistry Preceptorship  
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UCLA School of Dentistry  
10833 Le Conte Ave, A0-111 CHS  
Los Angeles, CA 90095-1668 USA

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- Content of application
- Motivation
- Activities/professional experience since graduating from dental school (*Those who have been treating patients are preferred.*)

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#### Contact Information

Ms. Erin Hakim



# Exhibit E.

[Skip to main content](#)



# THE UNIVERSITY OF IOWA

## COLLEGE OF DENTISTRY & DENTAL CLINICS

### **Graduate Program / Residency**

- Graduate Program
  - Courses
  - Expenses
  - Alumni

### **Operative News & Events**

### **Donate to Operative**

## **Graduate Program in Operative Dentistry**

### **Graduate Program in Operative Dentistry**

The Operative Dentistry Graduate Program has been designed to provide each post-doctoral student the opportunity and flexibility to achieve several professional goals.

The first of these is the development and refinement of skills in advanced operative dentistry techniques with special emphasis on the biological basis of caries and esthetic dentistry. Graduate students will gain significant clinical experience in comprehensive restorative dentistry within the interdisciplinary environment of the College of Dentistry. Students will have the opportunity to learn the latest materials and procedures in bonding technology and integrate them into a sound philosophy of esthetics through minimally-invasive direct restorative techniques.

Second, the program provides the opportunity to gain experience in teaching and research in preparation for an academic career in Operative Dentistry. Courses in education are available for the student as well as student teaching experience. All students will develop a research protocol, conduct research, and report and defend the findings in the form of a thesis.

Finally, the program provides the opportunity for clinical case development and preparation for the student interested in board certification in Operative Dentistry from the Academy of Operative Dentistry.

The Operative graduate program offers a combined MS in Oral Science and Certificate in Operative Dentistry. The MS in Oral Science requires a minimum of 30 s.h. of graduate-level credit and 36 months of full-time study, including completion of required and elective courses, preparation and defense of an acceptable thesis based on original research, and satisfactory completion of comprehensive written and oral examinations. The successful completion of the written exam component of the ABOD, is required as evidence of comprehensive operative knowledge. The Operative Dentistry certificate program is completed in conjunction with the Master of Science and provides a sound foundation for the clinical practice and teaching of operative dentistry. Students are required to complete all clinical and didactic courses in the discipline of Operative dentistry and teaching requirements. It also meets the educational requirements for application to take board certification examinations of the American Board of Operative Dentistry.

Both a Master of Oral Science degree and a certificate in Operative Dentistry are awarded upon completion of the course of study. Although certain courses are required for graduation, the students will have the opportunity to take elective course work directed towards their area of special interest. A list of department courses can be found [here](#).

Application for the graduate program should be made to Graduate/International Admissions and will be processed through the Graduate College of the University of Iowa.

- The Test of English as a Foreign Language (TOEFL) is required of all international applicants who are non-native speakers of English. This requirement is waived for applicants who have completed a bachelor's degree or higher at an accredited university in the U.S., the United Kingdom, Canada (excluding French Quebec), Africa (English speaking), Australia, or New Zealand. A score of at least 550 paper-based (PBT) or 81 internet-based (IBT) is required. Applicants who present TOEFL scores below 600 on the PBT or below 100 on the IBT are required to complete an English Proficiency Evaluation on campus before their first registration for classes.
- IELTS will also be accepted as an alternative to TOEFL. A minimum IELTS composite score of 7 and no single section score under 6 is required. Individuals taking the IELTS will be required to take the on-campus English Proficiency Evaluation.
- GRE is not required.
- The National Board Dental Exam is not required but highly recommended.
- An official copy of the applicant's dental diploma and dental license is required with the application.

Three students are accepted into the graduate program each year. Currently, no stipends are available for graduate students accepted into the program and all students must be able to financially support themselves. International students must also submit a financial statement upon acceptance to the University. The deadline for application is October 1 of the year prior to the anticipated date of starting the program. The program begins on or about July 1. Tuition and fees may be found on the Office of the Registrar Web pages. A more complete list of Operative Dentistry fees may be found here. Additional information about the department will be found here.

### **Services**

- Biopsy Submissions / Reports
- Iowa Practice Opportunities
- OM Radiology Consultants
- Patient Referrals
- Sterilizer Monitoring Program

### **QuickLinks**

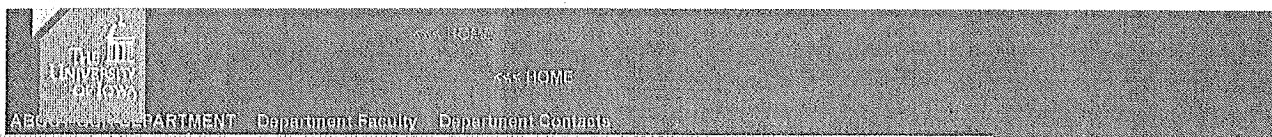
- Find a Dentist
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- Information & Hours
- Directions & Maps
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- About Us

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- ICON
- Employee Self Service
- EMail
- IntraDent
- Additional Links



**OPERATIVE DENTISTRY**

**Prospective Students**

- [Graduate Program](#)
- [Courses](#)
- [Expenses](#)

**Department News & Events**

**Donate to Operative Dentistry**

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**COLLEGE of DENTISTRY**

- [Education](#)
- [Patient Care](#)
- [Research](#)
- [Alumni, Donors, & Friends](#)
- [Professionals & Industry](#)

**Department of Operative Dentistry**



**Steven R. Armstrong, D.D.S., Ph.D., Professor and Chair**

Dr. Armstrong joined The University of Iowa College of Dentistry faculty in 1999 after completing post-doctoral work at the college as an NIDCR Dentist-Scientist. He is a professor in the Department of Operative Dentistry.  
[More...](#)



**Deborah R. Cobb, D.D.S., M.S., Associate Professor**

Dr. Deborah Cobb joined the College of Dentistry in 1986. She is an associate professor and graduate program director in the Department of Operative Dentistry.  
[More...](#)



**Gerald E. Denehy, D.D.S., M.S., Professor**

Dr. Denehy joined the College of Dentistry in 1968. He is the Dr. Bob H. and Jerilee H. Williams Professor in Restorative Dentistry and a professor in the Department of Operative Dentistry.  
[More...](#)



**Sandra Guzmán-Armstrong, D.D.S., M.S., Clinical Associate Professor**

Dr. Guzmán-Armstrong joined The University of Iowa College of Dentistry faculty in 2001 after completing postdoctoral work at the college. She is a clinical associate professor in the Department of Operative Dentistry.  
[More...](#)

More Info: [Contact our Webmaster](#) [Employment Opportunities](#) [Library](#) [Archives](#) [Media](#) [Privacy Policy](#)

The University of Iowa College of Dentistry, Iowa City, IA 52242



**Marja Marnela Hernández, D.D.S., M.S., Clinical Associate Professor**

Dr. Hernández joined the University of Iowa College of Dentistry faculty in 2003 after working as director of the operative dentistry section at the Universidad Javeriana Dental School, Bogota, Colombia, and working in private practice for ten years. She is a clinical associate professor in the Department of Operative Dentistry.  
[More...](#)



**Justine L. Kolker, D.D.S., M.S., Ph.D., Associate Professor**

Dr. Kolker joined The University of Iowa College of Dentistry faculty in 2005 after completing a research fellowship at the University of Michigan and a Ph.D. in oral science at Iowa as an NIDCR Dentist-Scientist. She is an assistant professor in the Department of Operative Dentistry.

*More...*



**Patricia Meredith, D.D.S., M.S., Clinical Associate Professor**

Dr. Meredith joined The University of Iowa College of Dentistry faculty in 1996 as director of Patient Admissions. She is a clinical associate professor in the Department of Operative Dentistry.

*More...*



**Rodrigo Rocha Maia, D.D.S., M.S., Ph.D, Visiting Assistant Professor**

Dr. Rocha Maia joined the University of Iowa College of Dentistry faculty in 2012 as a visiting assistant professor in the Department of Operative Dentistry.

*More...*

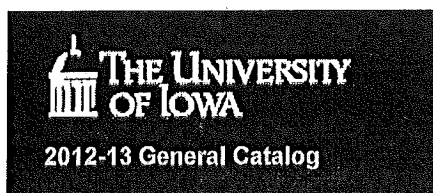


**Natalia Restrepo-Kennedy, D.D.S., M.S., Visiting Assistant Professor**

Dr. Restrepo-Kennedy joined The University of Iowa College of Dentistry faculty in 2012 as a visiting assistant professor in the Department of Operative Dentistry.

*More...*

College of Dentistry Emeriti



[Catalog Home](#) | [A-Z Directory](#) | [Catalog Contents](#)

[Search](#)

[Catalog Home](#) > [College of Dentistry](#) > [Operative Dentistry](#)

69

## Operative Dentistry

### Head

Steven Armstrong

### Professors

Steven Armstrong, Gerald Denehy

### Professors emeriti

Murray Bouschlicher, Daniel Boyer, James Fuller, Satish Khera, Devore Killip

### Adjunct professor

Robert Margeas

### Associate professors

Deborah Cobb, Justine Kölker

### Associate professors emeriti

Yvonne Chalkley, Thomas Schuelein

### Adjunct associate professor

Cathia Bergeron

### Clinical associate professor

Sandra Guzmán-Armstrong

### Adjunct assistant professors

Stephanie Barquist, Terry Donnelly, Christine Gouzalez, Richard Grunder, Terry Riley, Jon Ryder, Jeremy Tu, Lori Veerman

### Clinical assistant professor

Marcela Hernández

### Adjunct instructors

Ed Fung, Lynn Griebahn, Ben Lloyd, Matt Miller, Kayla Risma, Alan Swett, Rob Thompson, Chadwin Wagener

**Professional certificate: operative dentistry**

**Graduate degree: M.S. in operative dentistry**

**Web site:** <http://www.dentistry.uiowa.edu/>

## D.D.S. Student Training

Course work and clinical experiences in operative dentistry are fundamental to the overall education of D.D.S. students. The operative dentistry curriculum is designed so that didactic material relates closely to laboratory and clinical experiences. The program prepares students to proceed independently in operative dentistry during their fourth year of training.

## Graduate and Clinical Specialty Programs

- Master of Science in operative dentistry
- Certificate in Operative Dentistry

### In this section

D.D.S. Student Training

Graduate and Clinical Specialty Programs

Master of Science and Certificate

Courses

For D.D.S. Students

For Graduate and Certificate Students

Graduate and clinical specialty programs in operative dentistry provide advanced training designed to prepare dentists for teaching, research, and practice. Since the American Dental Association does not recognize operative dentistry as a specialty area, graduate students have the opportunity to take courses that particularly interest them.

### Master of Science and Certificate

The Master of Science program in operative dentistry requires 52 s.h. of graduate-level credit, preparation of an acceptable thesis based on original research, and a formal thesis defense. Students complete the certificate program as they work toward the Master of Science and are awarded the Certificate in Operative Dentistry when they receive the M.S. degree.

Students must provide their own financial support for the graduate program, including research and thesis expenses.

Applicants must be graduates of recognized schools of dentistry and must meet the admission requirements of the Graduate College. The department may request an interview with an applicant.

### Courses

#### For D.D.S. Students

**082:120 (OPER:8120) Dental Anatomy** 3 s.h.  
Basic dental terminology and nomenclature, human tooth morphology, creation of tooth crowns with wax.

**082:122 (OPER:8122) Operative Dentistry I** 6 s.h.  
Principles, design of cavity preparations; placement of restorative materials; clinical simulation on dental mannequins.

**082:140 (OPER:8240) Operative Dentistry II** 1 s.h.  
Principles, design of cavity preparations, restoration of teeth, patient management, pain control.

**082:141 (OPER:8241) Operative Dentistry II Clinic** 0,3 s.h.  
Procedures performed on operative clinic patients; based on biological principles for preparation of cavities, restoration with appropriate materials.

**082:142 (OPER:8242) Esthetic Dentistry** 1 s.h.  
Principles of esthetic dentistry; tooth bleaching, tooth recontouring, esthetic buildups with composite resin; exercises on mannequins in the simulation clinic.

**082:170 (OPER:8370) Operative Dentistry III** 4 s.h.  
Combination of didactic and clinical aspects of operative dentistry; review of clinical problems, restorative dental materials, and treatment methods; patient treatment; amalgam, composite resin, gold; emphasis on physiological and esthetic importance of restorative treatment.

#### For Graduate and Certificate Students

##### Discipline Studies

**082:224 (OPER:6224) Graduate Restorative Materials** 2 s.h.  
Dental materials science: mechanical, physical, and chemical properties of restorative materials; selection and manipulation. Same as 084:224 (PROS:6224).

**082:225 (OPER:5125) Operative Dentistry Seminar I** 1 s.h.  
Basic concepts of cavity preparation, material placement.

**082:226 (OPER:5126) Operative Dentistry Seminar II** 1 s.h.  
Direct resin systems, bonding technology; their use in dental esthetic treatment.

<b>082:227 (OPER:6227) Operative Dentistry Seminar III</b> Use of indirect techniques in bonded esthetic restorations.	1 s.h.
<b>082:228 (OPER:6228) Operative Dentistry Seminar IV</b> Principles for health professions educators.	1 s.h.

### Research Program

<b>082:230 (OPER:5130) Operative Dentistry Research I</b> Thesis topic selection, committee selection, literature review.	3 s.h.
<b>082:231 (OPER:5131) Operative Dentistry Research II</b> Thesis protocol, research.	2 s.h.
<b>082:232 (OPER:6232) Operative Dentistry Research III</b> Thesis research, data gathering, writing.	3 s.h.
<b>082:233 (OPER:6233) Operative Dentistry Research IV</b> Thesis completion, defense.	3 s.h.
<b>082:234 (OPER:5234) Selected Applications of Operative Dentistry</b> Advanced techniques.	arr.

### Clinical Studies

<b>082:240 (OPER:5140) Operative Dentistry Advanced Clinic I</b> Materials, techniques; restoration procedures on a mannequin.	arr.
<b>082:241 (OPER:5141) Operative Dentistry Advanced Clinic II</b> Patient treatment in operative clinic; basic operative procedures.	arr.
<b>082:242 (OPER:6242) Operative Dentistry Advanced Clinic III</b> Patient treatment in operative clinic; direct-bonded esthetic restorative procedures.	arr.
<b>082:243 (OPER:6243) Operative Dentistry Advanced Clinic IV</b> Patient treatment in operative clinic; advanced esthetic restorative procedures.	arr.
<b>082:244 (OPER:6245) Operative Dentistry Advanced Clinic V</b> Patient treatment in operative clinic; advanced esthetic restorative procedures.	arr.
<b>082:245 (OPER:5245) Clinical Demonstrating</b> Teaching undergraduate dental students in laboratory, clinic.	arr.
<b>082:300 (OPER:9300) Operative Dentistry Certificate Program</b> Advanced dental clinical, didactic education; nondegree program toward eligibility for board certification in operative dentistry.	0 s.h.



# Exhibit F.



## Graduate Restorative Dentistry - Overview

[GPRD Home](#) | [3-Year Curriculum](#) | [Admissions](#) | [Residents](#) | [GPRD Clinic](#) | [Directions & Parking](#)

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The program provides advanced clinical training and patient management experiences.

- Residents gain much more detailed knowledge in periodontics, endodontics, occlusion and implantology.
- They will treat patients with advanced stages of oral disease and/or compromised health.
- They obtain a working knowledge of scientific methodology.
- They gain a foundation for evidence based dentistry.
- They develop teaching skills and participate in a teaching role under the mentorship of experienced faculty.

The first year establishes the basis for sound treatment decision-making and clinical practice. The second year provides advanced clinical experience in restorative procedures, an introduction to research design and methodology and a teaching experience at the pre-doctoral level. The third year involves additional clinical practice plus a mentored research experience to meet a thesis requirement that can be submitted for publication in the dental literature.

Successful graduates are well-qualified for positions as full-time clinical faculty in a dental school as an educator or administrator in both pre-doctoral comprehensive care and graduate general dentistry programs.

Students completing the academic, clinical and research requirements receive both a:

- Master of Science degree from the Rackham Graduate School
- Certificate of program completion from the Dental School.



## Restorative Dentistry - Current Residents

[Graduate Restorative Dentistry Home](#) | [Overview & Curriculum](#) | [GRD Clinic](#) | [Directions & Parking](#)

Feras Alhalabi (no photo available), email: [alhalabi@umich.edu](mailto:alhalabi@umich.edu)

Sultan Binalrimal (no photo available), email: [drsultan@umich.edu](mailto:drsultan@umich.edu)

Basma Ghandourah (no photo available), email: [basmag@umich.edu](mailto:basmag@umich.edu)

Varinee Srimahachota (no photo available), email: [svarinee@umich.edu](mailto:svarinee@umich.edu)

Ali Alqahtani (no photo available), Grad Op Post, email: [robaian@umich.edu](mailto:robaian@umich.edu)



Ahmed Maawadh  
email: [maawadh@umich.edu](mailto:maawadh@umich.edu)



Fahd Alqahtani  
email: [drfahd@umich.edu](mailto:drfahd@umich.edu)



Haltham Alquorain  
email: [quorain@umich.edu](mailto:quorain@umich.edu)



Luciana Castro  
email: [castrolu@umich.edu](mailto:castrolu@umich.edu)



Rabia Arif  
email: [rabiarif@umich.edu](mailto:rabiarif@umich.edu)



Solafah Trabzouni  
email: [tsolafah@umich.edu](mailto:tsolafah@umich.edu)



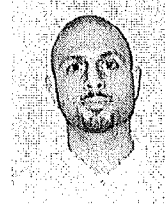
Alexandra Rodriguez  
email: [alerod@umich.edu](mailto:alerod@umich.edu)



Danika Jo Downey  
email: [downeydj@umich.edu](mailto:downeydj@umich.edu)



Vasiliki Maseli  
email: [vmaseli@umich.edu](mailto:vmaseli@umich.edu)



Mohammad Al-Mazedi  
email: [almazedi@umich.edu](mailto:almazedi@umich.edu)



Sarah Dhuhair  
email: [sarahad@umich.edu](mailto:sarahad@umich.edu)



Thamer Almohareb  
email: [mohareb@umich.edu](mailto:mohareb@umich.edu)

*No Photo Available*  
Alejandra De Fuentes  
email: [dfuentes@umich.edu](mailto:dfuentes@umich.edu)



## Graduate Restorative Dentistry - 3-Year Curriculum

[GPRD Home](#) | [Overview](#) | [Admissions](#) | [Residents](#) | [GRD Clinic](#) | [Directions & Parking](#)

[Year 1](#) | [Year 2](#) | [Year 3](#)

### Curriculum for Year 1

	Credits
<b>Summer Term - Total Credits: 1</b>	
Seminar in Operative Dentistry - Orientation	0
Conservative Esthetic Principles and Restorative Techniques, #883 Standardization Procedures - Typodont Exercises	1
<b>Fall Term - Total Credits: 8</b>	
Periodontal Therapy, #786 (starts in early July)	2
Principles of Operative Dentistry, #746 (starts in early July)	2
Scientific Communication, #610	1
Radiology, #662	2
Restorative Clinic, #742	1
<b>Winter Term - Total Credits: 10</b>	
Clinical Evaluation in Restorative Dentistry, #747	2
Concepts of Occlusion, #871	1
Molecular Biology, #612	1
Dental Education, #561 (includes Preclinic/Clinic Mentored Teaching Assignment)	2
Esthetic Dentistry, #745	1
Oral Pathology, #614	1
Dental Implantology, #636	1
Restorative Clinic, #742	1
<b>Spring Term - Total Credits: 4</b>	
Biomaterials, #566	1
Data Management in Restorative Dentistry, #741 (Statistics)	2
Restorative Clinic, #742	1

### Curriculum for Year 2

	Credits
<b>Fall Term - Total Credits: 7</b>	
Treatment of the Compromised Patient, #763	1
Clinical Procedures in Crown and Bridge, #739	1
Partial Denture, #638	1
Application of Partial Denture Theory, #639	1
Caries Diagnosis and Management, #884	2
Restorative Clinic, #742	1
Preclinic/Clinic Teaching (Optional, with stipend)	0
<b>Winter Term - Total Credits: 4</b>	
Treatment of the Compromised Patient, #764	1
Advanced Clinical Procedures in Crown and Bridge, #876	1
Thesis Investigation, #743	1
Restorative Clinic, #742	1
Preclinic/Clinic Teaching (Optional, with stipend)	0
<b>Spring Term - Total Credits: 2</b>	
Thesis Investigation, #743	1
Restorative Clinic, #742	1
Preclinic/Clinic Teaching (Optional, with stipend)	0

### Curriculum for Year 3

	Credits
<b>Fall Term - Total Credits: 2-4</b>	
Thesis Investigation, #743	1
Epidemiology of Oral Diseases, #621 (Elective)	2
Restorative Clinic, #742	1
Preclinic/Clinic Teaching (Optional, with stipend)	0
<b>Winter Term - Total Credits: 2</b>	
Thesis Investigation, #743	1
Restorative Clinic, #742	1

[Return to Top](#)



## Graduate General Dentistry Clinic - Patient Information

[Clinic Locations](#) | [Computerized Dentistry Home](#) | [Graduate Restorative Dentistry Home](#)

### Patient Information

- Patients are encouraged to schedule appointments by calling 734-764-1532
- Clinic hours are Mon-Fri from 8:15 am to 5:00 pm, closed from 12:00-1:00 daily

### Available Services

- Exams, x-rays, cleanings, and fillings
- Crowns and bridges
- Tooth colored crowns in a single appointment
- CAD/CAM and Digital dental procedures
- Complete and partial dentures
- Dental Implant treatment
- Cosmetic dentistry, tooth whitening, veneers
- Periodontal (gum) treatment
- Root canal (endodontic) treatment

### Our Clinic

The Graduate General Dentistry Clinic is operated jointly by the Graduate Restorative Dentistry and Computerized Dentistry programs. There is a full time clinic coordinator who manages the day-to-day clinic operations. Two office managers handle patient communication, appointment scheduling, record monitoring, and fee collections. There are 15 active chairs for general assignment managed by the Clinic Team of 7 dental assistants. The Hygiene Team has three hygienists who manage the patient recall program and collaborate on patient treatment with students and faculty. The in-house CompuDent Laboratory supports the clinic for lab prescribed services. The clinic is also home to an active Clinical Research Team focused on emerging dental procedures and materials.

### Maps and Parking

- [Patient Directions & Parking](#)
- [Clinic Locations](#)



## Peter Yaman, DDS, MS



### Clinical Professor

Director, Graduate Program in Restorative Dentistry  
Cariology, Restorative Sciences, and Endodontics  
School of Dentistry, Room 2335  
University of Michigan  
1011 N University Ave  
Ann Arbor, MI 48109-1078  
TEL = 734-647-3726  
FAX = 734-936-1597  
EMAIL = [pyam@umich.edu](mailto:pyam@umich.edu)

[additional contact information](#) | [Complete CV](#)

### Major Responsibilities:

Director, Graduate Program in Restorative Dentistry  
Course Director, DENT745/749, Esthetic Restorative Procedures  
Course Director, DENTXXX, Graduate Seminar Case Presentations  
Course Director, DENT742, Restorative Clinic

### Special Distinctions:

Fellow, International College of Dentists  
Consultant, NERB

### Description of Research Area(s):

Dr. Yaman is involved in laboratory and clinical investigations of restorative materials and esthetic techniques. Clinical trials are ongoing to assess the reliability of caries diagnosis techniques using laser fluorescence and digital radiographs. Laboratory research to evaluate the properties of the most recent composite formulations.

### Publications:

1. Vivas J, Yaman P, Taylor G. Effect of different surface treatments on the shear and flexural re-bond strengths of a micro-hybrid composite. *J Contemp Dent Pract* 2009 Sept 1; 10(5):E00108
2. Chuang SF, Yaman P, Herrero A, Dennison JB, Chang CH. Influence of post material and length on endodontically treated incisors: an in vitro and finite element study. *J Prosthet Dent* 2010 Dec; 104(6):379-88.
3. Khalife MA, Boynton JR, Dennison JB, Yaman P, Hamilton JC. In vivo evaluation of DIAGNOdent for the quantification of occlusal dental caries. *Oper Dent* 2009 Mar-Apr;34(2):136-141. [[PubMed](#)]
4. McLaren JD, McLaren CI, Yaman P, Bin-Shuwaish MS, Dennison JD, McDonald NJ. The effect of post type and length on the fracture resistance of endodontically treated teeth. *J Prosthet Dent* 2009 Mar;101(3):174-182. [[PubMed](#)]
5. Bin-Shuwaish M, Yaman P, Dennison JB, Neiva G. The correlation of DIFOTI to clinical and radiographic images in Class II carious lesions. *J Dent Assoc* 2008 Oct;139(10):1374-1381. [[PubMed](#)]
6. Bin-Shuwaish M, Dennison JB, Yaman P, Neiva G. Estimation of clinical axial extension of Class II caries lesions with ultraspeed and digital radiographs: an *In vivo* study. *Oper Dent* 2008 Nov-Dec;33(6):613-621. [[PubMed](#)]
7. Koh R, Neiva G, Dennison JB, Yaman P. Effect of finishing systems on the final surface roughness of composites. *J Contemp Dent Pract* 2008 Feb;9(2):138-145. [[PubMed](#)]
8. Givens EJ Jr, Neiva G, Yaman P, Dennison JB. Marginal adaptation and color stability of four provisional materials. *J Prosthodont* 2008 Feb;17(2):97-101. [[PubMed](#)]
9. Kishta-Derani M, Neiva G, Yaman P, Dennison JB. In vitro evaluation of tooth-color change using four paint-on tooth whiteners. *Oper Dent* 2007 Jul-Aug;32(4):394-398. [[PubMed](#)]
10. Chuang SF, Chang LT, Chang CH, Yaman P, Liu JK. Influence of enamel wetness on composite restorations using various dentine bonding agents: part II-effects on shear bond strength. *J Dent* 2006 May;34(5):352-361. [[PubMed](#)]
11. Chuang SF, Chang CH, Yaman P, Chang LT. Influence of enamel wetness on resin composite restorations using various dentine bonding agents: part I-effects on marginal quality and enamel microcrack formation. *J Dent* 2006;34(5):343-351. [[PubMed](#)]

[Return to Faculty page](#)

updated 01/03/2013

**CURRICULUM VITAE**  
**PETER YAMAN, DDS, MS**

School of Dentistry  
Cariology, Restorative Sciences, and Endodontics  
University of Michigan  
1011 North University Avenue  
Ann Arbor, MI 48109-1078  
EMAIL: [pyam@umich.edu](mailto:pyam@umich.edu)  
TEL: 734-647-3726

**PROFESSIONAL HISTORY**

**Education**

1975 M.S. (Restorative Dentistry), University of Michigan, Horace H. Rackham School of Graduate Studies  
1971 D.D.S., University of Michigan, School of Dentistry  
1966-1967 University of Michigan, Horace H. Rackham School of Graduate Studies, School of Public Health  
1966 B.S., Eastern Michigan University  
1961-1962 Rutgers University

**Academic Appointments:**

1998-Present Clinical Professor, Director Graduate Restorative Dentistry, University of Michigan, School of Dentistry  
1988-1998 Assistant Professor, Director Graduate Restorative Dentistry, University of Michigan, School of Dentistry  
1975-1988 Assistant Professor, Department of Cariology, Restorative Sciences, and Endodontics, University of Michigan, School of Dentistry  
1971-1975 Clinical Instructor, Department of Operative Dentistry, University of Michigan, School of Dentistry

**Professional Licenses**

1971-Present D.D.S., State of Michigan

**Dental Practices**

-Present Dental Faculty Practice

**Honors and Awards**

1986 Omicron Kappa Upsilon  
1987.03 Session Chairman – 65<sup>th</sup> General Session of the International Association of Dental Research. Session N: Prosthodontics Research I: Fixed Prosthodontics and Chemical Removal of Caries. Chicago, IL.  
1988.03 Chairman, Scientific Session – Prosthodontics Research, IADR, Montreal, Canada  
1989.03 Co-chairman, Scientific Session – Prosthodontics Research, AADR, San Francisco, CA  
1990 AADR – Prosthodontic Committee Chairman



- 1991 IADR – Prosthodontic Committee Co-chairman  
 1993 International College of Dentists, Nominated and Accepted

### **Professional Memberships**

- 1990-Present Academy of Operative Dentistry  
 1985-1988 American Association of Dental Schools  
 1971-Present American Dental Association  
 1993-Present International College of Dentists  
 1971-Present Michigan Dental Association  
 1995-Present Northeast Regional Board of Dental Examiners  
 1986-Present Omicron Kappa Upsilon - Chi chapter  
 1971-Present Washtenaw District Dental Association  
 1981-Present IADR/AADR  
 1995-Present American Academy of Cosmetic Dentistry-University Advisory Council

### **SERVICE ACTIVITIES**

#### **Departmental Committees, CRSE, School of Dentistry**

- 1971-1984 Preclinical staff meetings  
 1992-Present Clinical Research Committee  
 1988-Present Director, Graduate Restorative Program  
 1998-Present Director, CRSE Continuing Education  
 2003-2004 MAC Disability Subcommittee – Task Force  
 2004-2005 Search Committee for Department Chair  
 2003- Internal Review Committee, Promotion, Dr. Jacques Nor  
 2005 Internal Review Committee, Promotion, Dr. Gisele Neiva (Chair)  
 2011-2012 Search Committee for three Department positions

#### **School of Dentistry Committees**

- 1982-1993 Table Clinic Program  
 1986-1989 Student Affairs Committee  
 1989 Student Affairs Committee (Chair)  
 1975-1984 Preclinical Dentistry Committee  
 1985-1988 Advisory Committee to the Director of Clinics  
 1984-1987 Patient Care Interdisciplinary Coordinating Committee  
 1991-1993 Graduate Studies Committee  
 1983-1988 Esthetic Dentistry Committee  
 1998-1999 Graduate Clinic Space Planning Committee  
 1998-Present Continuing Education Directors Committee  
 1994-Present Graduate Directors Committee  
 2010-Present Search Committee for Pedodontics (Chair)  
 2011 Review Committee, Promotion, Dr. Marianella Sierraalta

#### **University Committees**

- 2003-2006 Senate Assembly, Financial Affairs Advisory Committee (Chair)

#### **National/International Committees**

- 2005-Present American Association of Dental Examiners-Criteria Subcommittee  
 1984-Present Northeast Regional Board  
 1997-Present Examiner  
 1990-Present Training for dental examiners  
 1990-Present Conduct of the examination  
 1984-Present Development and calibration kits for restorative dentistry and periodontics  
 1984-Present Manuals for examiners and candidates  
 1988-Present Examination Committee  
 1988-Present Written Examination Subcommittee  
 1996-Present Electronic Testing Committee  
 1999 Dental Examination, NERB, Boston (Dec 13-15)  
 2000 Dental Examination, NERB, Tufts University, (Apr 24-28)  
 2000 Dental Examination, NERB, UMDNJ (May 18-19)  
 2000 Dental Examination, NERB, NYU (Aug 24-28)  
 2001 Dental Examination, NERB, Temple University (May)  
 2001 Dental Examination, NERB, NYU (August 24-28)  
 2001 Dental Examination, NERB, NYU (Dec)  
 2002 Dental Examination, NERB, NYU (May)  
 2002 Dental Examination, NERB, UMDNJ (May)  
 2004 Dental Examination, NERB, NYU (August)  
 2004 Dental Examination, NERB, NYU (Dec)  
 2005 Dental Examination, NERB, NYU (Feb)  
 2005 Dental Examination, NERB, Tufts University (Feb)  
 2005 Dental Examination, NERB, The Ohio State University (Feb)  
 2005 Dental examination, NERB, Tufts University (Apr)  
 2005 Dental Examination, NERB, NYU (May)  
 1971-2007 Michigan Dental Association Task Force  
 2001-2005 Special Committee on Licensure  
 2002-Present Peer Review Committee (Consultant)  
 1987-2007 International Association for Dental Research  
 1987 IADR Session N: Prosthodontics Research I: Fixed Prosthodontics and  
 Chemical Removal of Caries (Session Chair), Chicago, IL.  
 1988 IADR Scientific Session: Prosthodontics Research (Session Chair),  
 Montreal, Canada.  
 1989 AADR Scientific Session: Prosthodontic Research (Session Co-Chair),  
 San Francisco, CA.  
 1990 AADR Scientific Session: Prosthodontics (Chair), Cincinnati, OH.  
 1991 IADR Scientific Session: Prosthodontics (Co-Chair), Acapulco, Mexico.  
 1995-2007 American Academy of Cosmetic Dentistry  
 1995-2007 University Advisory Council  
 2011-present IADR Scientific Session-Prosthodontics (Co-Chair), San Diego, CA  
 IADR Sequence #356-Prosthodontics research (Chair), San Diego, CA

### **Journal Reviewer**

- 1992-Present *Journal of Prosthetic Dentistry* (Editorial Board)  
 2001-Present *Academy of General Dentistry* (Reviewer)  
 1999-Present *Journal of Esthetic and Restorative Dentistry* (Reviewer)  
 2002-Present *Journal of the American Dental Association* (Reviewer)  
 1996-Present *Journal of Operative Dentistry* (Editorial Board)  
 2006-2010 *Journal of Contemporary Dental Practice* (Reviewer)

- 2007-Present *Journal of Prosthodontics* (Reviewer)  
 1985-Present *The Dental Advisor* Newsletter (Associate Editor)  
 2007-Present *Journal of Endodontics* (Reviewer)  
 2007-Present *Journal of Oral Rehabilitation* (Reviewer)  
 2007-Present *American Journal of Dentistry* (Reviewer)  
 2008-Present *Journal of Applied Science* (Reviewer)  
 2008-Present *Clinical Oral Investigations* (Reviewer)  
 2008-Present *Journal of Dental Education* (Reviewer)  
 2010-Present *ISRN Dentistry-Hindawi Publishing* (Editorial Board)

### **Consulting Positions**

- 1982-1987 Veterans Administration Hospital, Allen Park, Michigan  
 1982-1991 Veterans Administration Hospital, Ann Arbor, Michigan  
 1984-Present Northeast Regional Board of Dental Examiners (Consultant and examiner)  
 1985-1993 Technical Advisory Services for Attorneys (TASA), Phoenix, AZ (Expert witness)  
 1988-Present Naval Dental School, Bethesda, Maryland  
 1998-2001 Kerr Round Table Symposium, Coronado, California  
 2005-Present American Association of Dental Examiners  
 2007-Present Fellowship Conference, Dentsply/Caulk  
 2007 Spring dental conference, GC Inc.

### **TEACHING ACTIVITIES**

#### **DDS Undergraduate, University of Michigan, School of Dentistry**

- 1975-1990 DENT833, Operative Dentistry Clinic (Summer, Fall and Winter), Instructor  
 1980-1983 DENT523, Preclinical Dentistry (Winter), Instructor  
 1980-1990 DENT623, Preclinical Dentistry: Complex Esthetic Restorations (Winter), Course Director  
 1980-Present DENT732, Operative Dentistry (Fall), Instructor  
 1981-Present DENT732, Operative (Winter), Instructor  
 1987-Present DH414, Dental Hygiene (Fall), Instructor  
 1989-1994 DENT614, Principles of Restorative Dentistry (Fall and Winter), Instructor  
 1989-1994 DENT631, Integrated Clinical Sciences III (Fall and Winter), Instructor  
 1991-Present DENT832, Advanced Operative Dentistry (Fall), Instructor

#### **MS Graduate Program, University of Michigan, School of Dentistry**

- 1975-Present DENT742, Clinical Restorative Dentistry (Fall, Winter, Spring, Summer), Instructor  
 1979-Present DENT742, Clinical Conference (Fall and Winter), Seminars  
 1979-1997 DENT787, Restorative Considerations for the Periodontal Patient (Fall), Lecturer  
 1984-Present DENT???, Endodontic Graduate Seminar, Instructor  
 1984-Present DENT745, Esthetic Restorative Procedures (Winter), Course Director  
 1984-2005 DENT749, Esthetic Restorative Procedures (Winter), Course Director  
 1987-Present DENT744, Literature Review in Restorative Dentistry (Winter), Instructor  
 1987-Present DENT746, Principles of Operative Dentistry, Laboratory and Seminar (Summer, Fall), Instructor  
 1987-Present Graduate Seminar-Case Presentation (Fall), Course Director  
 1988-Present DENT883, Conservative Esthetic Restorations (Winter), Instructor  
 1988-Present DENT748, Special Topics in Restorative Dentistry (Winter), Instructor

1992-Present AEGD, Seminars and Clinic, Instructor  
 2001-2006 DENT566, Biomaterials  
 1999-Present DENT764, Orthodontics (Fall, Winter), Instructor  
 2004-2006 ????, Grad Prosthodontics

#### **Pre-Dental and Dental Student Research Project Advisor**

1976-1980 Dental Student Class Counselor  
 1989 High School Student Research Program (Advisor)  
 1990 C. Tanaglia, D2 student (Summer Research Advisor)  
 1993 Andrew Dwan, Margin accuracy of indirect posterior composite and CAD/CAM inlays (Summer Research Advisor)  
 1994 Andrew Dwan, Effect of pretreatment on bond strength of resin to porcelain (Summer Research Advisor)  
 1995 Andrew Dwan, Effect of cement on fracture resistance of all-ceramic crowns (Summer Research Advisor)  
 2000-2001 Jeffrey Zieziula (Summer Research Advisor)  
 2000-2002 Nikole Pecora (Summer Research Advisor)  
 2001 Jared Ferguson (Summer Research Advisor)  
 2002 Nassim Ghavamian (Summer Research Co-Advisor)  
 2003-2004 Edward Givens (Summer Research Co-Advisor)  
 2003-2004 Curtis Godfrey (Summer Research Advisor)  
 2003-2006 Brian Nakfoor (Summer Research Advisor)  
 2004 Brian Nakfoor (Summer Research Advisor)  
 2004-2007 Annelise Preslan (Summer Research Advisor)  
 2004-2007 Casey Tenniswood (Summer Research Advisor)

#### **Thesis Research Committee** (Responsible for post-graduate education for >35 dentists from 14

countries: United States, Canada, Korea, Taiwan, Philippines, Pakistan, India, Saudi Arabia, Iran, Japan, Greece, Brazil, Venezuela, Thailand)

1979 Roberto Garcia, MS Restorative Dentistry, Title: Gingival tissue response to restoration of deficient cervical contours using a glass ionomer material, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)

1980 Joseph E. Giles, MS Restorative Dentistry, Title: Effect of immediate finishing and polishing of Tytin amalgam restorations evaluated by in-situ replication technique, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)

1982 Jose Gomez, MS Restorative Dentistry, Title: The importance of the thickness of the porcelain fused to metal on the selected shade, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)

1984-1985 Christopher Keall, MS Restorative Dentistry, Title: Quality assessment of complex restorative procedures, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)

1984 Enrique O. Perez, MS Endodontics, Title: Radiographic determination of the space available for post preparation in 957 extracted teeth, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)

1988 Ghalia Katranji, MS Restorative Dentistry, Title: Margin integrity of three porcelain crowns, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)

1988 Jackson Linger, MS Restorative Dentistry, Title: Color match and shade selection for porcelain dental restorations, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)

- 1988 Robert Humphries, MS Prosthodontics, Title: The accuracy of master casts fabricated from transfer impressions using the Branemark osseointegrated implant system, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1988 Carlos Trindade, MS Restorative Dentistry, Title: Fit evaluation of a castable ceramic material in intracoronal restorations, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1989 Ching-Cheng Liu, MS Dental Materials, Title: Strength of magnesia core porcelain crowns, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1989 Zahir Khokhar, MS Prosthodontics, Title: In-vitro study of the color stability of modern restorative materials, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1990 Mujib Minhas, MS Prosthodontics, Title: Effect of setting on the accuracy of die stone, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1990 Thorstein Thorsteinsson, MS Restorative Dentistry, Title: Photoelastic stress analysis of four different prefabricated posts for endodontically treated teeth, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1991 James Ragain, MS Restorative Dentistry, Title: The effects of retention pin design and pin retained core systems on dentinal damage, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 1992 Saqib Qazi, MS Restorative Dentistry, Title: Tooth color modification with porcelain laminates, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 1992 Dina Agay, MS Restorative Dentistry, Title: Margin accuracy of indirect esthetic posterior inlays, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1992 Allison Oates, MS Restorative Dentistry, Title: Patient decision making in relation to extensive restorative dental treatment, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1993 Henry Young, MS Restorative Dentistry, Title: Methodologies and standardization of measurements for occlusal wear in composite resins, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1994 Tahereh Mohammadi, MS Restorative Dentistry, Title: The effect of post-cure on the physical properties of composite resins, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1994 Tauseel Kahn, MS Restorative Dentistry, Title: Evaluation of calcium and phosphorus content of vital and endodontically treated teeth, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1994 Tariq Al-Ali, MS Restorative Dentistry, Title: Effect of luting cement and shoulder porcelain on the fracture resistance of all-ceramic crowns, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1995 Socratis Thomaidis, MS Restorative Dentistry, Title: The effect of the addition of pigments on the physical properties of a high expansion magnesia core, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 1995 Abdullah Al-Barkheel, MS Restorative Dentistry, Title: The color properties of glass ionomers after surface coating, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1995 Tarchee Aw, MS Restorative Dentistry, Title: Comparison of a human expert to a neural network in grading of amalgam cavity preparations, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)

- 1995 Ethan Pansick, MS Prosthodontics, Title: The effect of multiple porcelain firing cycles on the fit of implant frameworks, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1995 Ralph Atanasi, MS Prosthodontics, Title: Color stability of procera all-ceramic porcelain, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1996 Wedad Awliya, MS Restorative Dentistry, Title: Shear bond strength of resin cements to a densely sintered Aluminum oxide material, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 1996 Gisele Neiva, MS Restorative Dentistry, Title: Resistance to fracture of three all-ceramic systems, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 1997 Ricardo Seir, MS Restorative Dentistry, Title: Effect of critical time plus varying light intensities on composite resin shrinkage, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1997 Elizabeth Koukopolou, MS Restorative Dentistry, Title: Shade matching with the use of the intraoral video camera, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1997 Olga Efstratopoulou, MS Restorative Dentistry, Title: Tensile bond strength of four all-ceramic systems to dentin, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1998 Paul Byers, MS Restorative Dentistry, Title: The effects of bur design on particle size distribution generated by amalgam restoration removal, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1998 Adriana Castro, MS Pediatric Dentistry, Title: Microleakage of an intermediate restorative material in primary and permanent teeth, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1998 Samah El-Abrashi, MS Prosthodontics, Title: The effect of coping design/die fir of Procera aluminum oxide copings cemented with different cements, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1998 Douglas Eagan, MS Restorative Dentistry, Title: Plaque pH and plaque fluoride measurements adjacent to fluoride containing tooth colored restorative materials, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 1999 Marianella Sierraalta, MS Prosthodontics, Title: Tensile bond strength of two luting agents to various implant prosthetic substrates, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2000 Hassan Abed, MS Prosthodontics, Title: Studies on the Procera all-ceramic porcelain crown, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2000 Regina Zajia, MS Restorative Dentistry, Title: Clinical effectiveness of bonded amalgam restorations for cracked tooth syndrome, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2001 Waletha Wasson, MS Restorative Dentistry, Title: Evaluation for the color appearance match of esthetic restorative materials with the human dentition: an empirical analysis and its application to dental education, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2001 Marcela Jimenez, MS Restorative Dentistry, Title: Fracture resistance and mode of failure for endodontically treated teeth restored with fiber reinforced posts, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2001 Kevin Dancy, MS Restorative Dentistry, Title: Color measurements as a quality criteria for clinical shade matching of porcelain crowns, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)

- 2001 Felipe Falcao, MS Restorative Dentistry, Title: Torque required to loosen surface treated abutment screws before and after cyclic loading, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2001 Hal O'Kray, MS Biomaterials, Title: The hydration of a high alkali porcelain and its effect on in vitro human enamel wear, flexure and impact strength, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2002 Abdullah Al-Swuaillem, MS Restorative Dentistry, Title: The effect of curing sequence on the shear bond strength of resin cement to dentin, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2002 Gabriela Mantellini, MS Restorative Dentistry, Title: Effect of an adhesive resin on the dental pulp cell apoptosis and vascular endothelial growth factor expression, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2003 Ernesto Villalobos, MS Restorative Dentistry, Title: Effect of bit splint therapy on the blood levels of adrenocorticotrophic hormone (ACTH) on bruxers and non-bruxers, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2003 Supriya Goverdhanam, MS Restorative Dentistry, Title: Correlation between bruxing, blood pressure and heart rate, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2003 Monica Hadechny, MS Restorative Dentistry, Title: Effect of various light curing systems on composite shrinkage, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2003 Marjorie Aleman, MS Restorative Dentistry, Title: Effect of aluminum oxide core on the polymerization of a resin cement, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2003 Preetha Kanjirath, MS Restorative Dentistry, Title: A Patient utility analysis of treatment modalities for replacing a single missing tooth, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2003 Charles McLaren, MS Restorative Dentistry, Title: Time-dependent fluoride uptake into dentin from a resin-modified glass ionomer, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2003 John McLaren, MS Restorative Dentistry, Title: The effect of post type and length on the fracture resistance of endodontically treated teeth, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2003 Lainie Shapiro, MS Orthodontics, Title: Orthodontic treatment, referrals and timing: attitudes of general dentists, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2003 Hana Al-Dohan, MS Restorative Dentistry, Title: Shear strength of core-veneer interface in bi-layered ceramics, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2003 Micheline Tnjutco, MS Restorative Dentistry, Title: A comparison of the physical properties of four resin cements, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2003 Scott Kooistra, MS Restorative Dentistry, Title: A comparison of the radiographic and clinical extension of class II carious lesions using an F-speed film, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2005 Abdullah Al-Swuaillem, PhD Public Health, Title: The longevity of single indirect restorations and their distribution in a population with dental insurance, School of Public Health, University of Michigan, Ann Arbor (Committee Member)

- 2005 Pornpimoln Charakorn, MS Restorative Dentistry, Title: Effect of BMP 2, 4 and 7 on dental pulp cell survival, proliferation and cell cycle, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2006 Brian Schabel, MS Orthodontics, Title: Orthodontic esthetics: a systematic evaluation of the smile, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2006 Young-Ah Chai, MS Prosthodontics, Title: The effect of cement color on the shade matching of veneered Procera zirconia oxide substrates, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2004-Present Andreas O'Campo, MS Operative Dentistry, Title: The effect of porcelain laminate contour on gingival inflammation, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2005-Present Tijen Lacin, MS Operative Dentistry, Title: Clinical and molecular analysis of sealed carious dentin, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2005-Present Alexandra Jaquery, MS Operative Dentistry, Title: Implantation of dental pulp stem cells in a biodegradable scaffold for dental pulp tissue engineering, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2007 Vichlada Phunthikaphadr, MS Operative Dentistry, Title: Vascular endothelial growth factor (VEGF) induction in dental pulp cells by bacterial lipoteichoic acid (LTA), School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2005-Present Carlos Uribe, MS Operative Dentistry, Title: Effect of Onlay preparation design on fracture resistance and internal adaptation of all-ceramic restorations, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2007 Augusto Robles, MS Operative Dentistry, Title: Clinical evaluation of a self-etching adhesive for all-ceramic indirect restorations, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2007 Mohammed Bin-Shuwaish, MS Operative Dentistry, Title: A comparison of the clinical axial extension of class II carious lesions to different diagnostic images, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2007 Ilona Fotek, MS Operative Dentistry, Title: Effect of coping design on fracture resistance of zirconia core ceramics, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2007 Sahar Barbat, MS Operative Dentistry, Title: A patient utility analysis of treatment modalities for a single non-vital tooth, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2007 Sumant Ram, MS Restorative Dentistry and Biomaterials, Title: The effect of nickel as a barrier plate for gold plated copper, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2007 Moufida Khalife, MS Restorative Dentistry, Title: Clinical evaluation of a low diode laser for quantification of dental caries: in-vivo study, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2008 David W. Jones, MS Operative Dentistry, Title: Preservation of Prepolymerized Particles in Composite Filler Content Measurements, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2008 Anthony Khoo, MS Operative Dentistry, Title: Clinical Evaluation of a Self-Etch, Self-Adhesive Resin Cement for Bonding Indirect All-Ceramic Restoration, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)



- 2009 Rodolfo Diaz, MS Operative Dentistry, Title: Evaluation of Cement Space as a Function of Endodontic Post Retention, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2009 Qiming Jin, MS Operative Dentistry, Title: PDGF Gene Therapy to Accelerate Dental Implant Osseointegration, School of Dentistry, University of Michigan, Ann Arbor, MI (Committee Member)
- 2009 Wendy Abrams, MS Operative Dentistry, In Progress, Title: Analysis of Microflora Associated with Discolored Resin Margins, With and Without Caries, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2009 Di Jiang, MS Operative Dentistry, Title: Identification and Characterization of MAPK Phosphorylation Sites in Runx2, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2010 Irma Gavaldon, MS Operative Dentistry, Title: The Correlation of Physical Properties with Filler Content in Composite Resins, School of Dentistry, University of Michigan, Ann Arbor
- 2010 Pavitra Waikasetkorn, MS Restorative Dentistry, Title: Assessment of physical properties of 4 composite resins, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2010 Sahar Taha, MS Restorative Dentistry, Title: Synthetic enamel paste in the treatment of dentin hypersensitivity, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2010 Aiketerina Oikonomopoulou, MS Restorative Dentistry, Title: Marginal degradation of ceramic inlays/onlays over time, School of Dentistry, University of Michigan, Ann Arbor (Committee Chair)
- 2011 Gail Krishnan, MS Restorative Dentistry, Title: Effect of coping design on the fracture resistance of pressable zirconia core ceramics, School of Dentistry, University of Michigan, Ann Arbor, (Chair)
- 2011 Helena Pocaterra, MS Restorative Dentistry, Title: Effectiveness of a 2-step polishing system for composite restorations, School of Dentistry, University of Michigan, Ann Arbor (Chair)
- 2011 Fahad Alkudhairi, MS Restorative Dentistry, Title: The effect of irrigation solutions on the bond strength of cemented fiber posts, School of Dentistry, University of Michigan, Ann Arbor (Chair)
- 2011 Daisy Salazar, MS Restorative Dentistry, Title: Inorganic and prepolymerized filler content analysis of four resin composites, School of Dentistry, University of Michigan, Ann Arbor (Chair)
- 2011 Matthew Chang, MS Restorative Dentistry, Title: Physical property evaluation of four composite materials, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2011 James Thompson, MS Restorative Dentistry, Title: Translucency and radiopacity of five resin composites, School of Dentistry, University of Michigan, Ann Arbor (Chair)
- 2012 Ahmad Deebajah, MS Restorative Dentistry, Title: Neurometabolite changes in the posterior insula with myogenous temporomandibular disorder symptoms, School of Dentistry, University of Michigan, Ann Arbor (Committee Member)
- 2012 Daniela Garcia, MS Restorative Dentistry, Title: Polymerization shrinkage and depth of cure of three bulk fill flowable composite resins, School of Dentistry, University of Michigan, Ann Arbor (Chair)

## PRESENTATIONS:

**Continuing Dental Education and Invited Dental Presentation**

- 1980.06 Functional oral rehabilitation, School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1981.01 Clinical considerations in porcelain-gold supported esthetic restorations (lecture and laboratory demonstrations), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1981.04 Canadian endodontic postgraduate course (Lecturer), Restoration of Devital Teeth, Toronto, Canada.
- 1981.06 Mini-course (Lecturer, 6 hours). 23rd Spanish Congress and Third International Congress on Odonto-Stomatology, Valencia, Spain.
- 1981.11 Endodontics II - posterior teeth (Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1982.05 Oral rehabilitation (2-day laboratory), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1982.05 Oral rehabilitation (for Spanish speaking students) (Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1982.06 Esthetic restorations - 1-week laboratory (for Spanish speaking students), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1982.11 Endodontics II - posterior teeth (Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1983.05 Pin-retained amalgam restorations (Lecture), Veterans Administration, Ann Arbor, MI
- 1983.11 Endodontics II - posterior teeth (Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1983.12 Esthetic considerations (Lecture), Veterans Administration, Ann Arbor, MI
- 1984.02 Restoration of devital teeth (Postgraduate Endodontics), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1984.05 ABC's of esthetics in restorative dentistry (Lecture), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1984.05 Dental treatment for the adult and aging handicapped patient (Lecture), Kalamazoo Dental Society, Kalamazoo, MI
- 1984.05 Restoration of devital teeth: problems and solutions (Course Director and Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1984.09 Occlusion, restorative and endodontics. Venezuelan Society of Prosthetic Dentistry, Restorative Options (Lecturer), Caracas, Venezuela.
- 1984.09 Restoration of teeth using pin-retained cores and post and cores: rationale and techniques (Lecturer), School of Dentistry Alumni Homecoming, Ann Arbor, MI
- 1984.11 Endodontics II - posterior teeth (Lecture), School of Dentistry, University of Michigan, Ann Arbor.
- 1985.01 Restoration of the compromised tooth (Lecturer), Delta Dental Fund of MI, Ann Arbor, MI.
- 1985.04 Ceramics - new concepts (Lecturer), Veterans Administration, Ann Arbor, MI
- 1985.05 Dental care for the aging handicapped patient (Lecturer), Oakland Community College, Oakland, MI.

- 1985.05 Operative dentistry seminar (Lecturer), Naval Dental Clinics, Great Lakes Naval Training Center, Great Lakes, IL.
- 1985.06 Conservative to Complex Esthetics (Lecturer), Upper Peninsula Dental Society, Copper Harbor, MI.
- 1985.10 The Oral Health of the Older Adult (Lecturer, Panelist), Michigan Geriatric Education Center, Ann Arbor, MI.
- 1985.12 Complex esthetic restorations - an overview (Lecturer), Royal College of Dental Surgeons, Toronto, Canada.
- 1986.01 Management of restorative materials during prophylaxis (Lecturer) School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1986.02 Esthetics (Lecturer), Veterans Administration Medical Center, Ann Arbor, MI.
- 1986.03 Esthetics - simple to complex (Lecturer), Cruise through the Virgin Islands.
- 1986.03 Post and core - treatment rationale (Lecturer), Veterans Administration Medical Center, Ann Arbor, MI.
- 1986.05 Restorative and Esthetic Treatment, First International Joint Dental Seminar (Lecturer), The Nippon Dental University, (Niigata, Japan) and The University of Michigan (Ann Arbor, MI).
- 1986.09 New developments in ceramics (Lecturer), Veterans Administration Medical Center, Ann Arbor, MI.
- 1986.11 Supplemental retention (Lecturer), Veterans Administration Medical Center, Ann Arbor, MI.
- 1987.04 Esthetic problems: composite to ceramics, School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1987.05 Pin, core and post retention, School of Dentistry, University of Michigan, Ann Arbor.
- 1987.06 The curriculum in operative dentistry -- future directions (Lecturer in International Symposium), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1987.11 Update in operative dentistry -- treatment planning for complex esthetic restorations, School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1988.02 Options for endodontically treated teeth (Lecturer), Annual Convention of General Dentists, Puerto Rico.
- 1988.05 Restorative procedures for devital and compromised teeth, School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1988.05 Posts and Cores (Lecturer), Washtenaw Dental Society, Ann Arbor, MI
- 1988.07 Restorative dentistry, endodontics, periodontics and occlusion (Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1988.10 Treatment for compromised teeth (Lecturer), Central District Dental Society, Lansing, MI.
- 1988.11 Clinical update in operative dentistry (Course Director and Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1988.11 Clinical update in operative dentistry (Course Director and Laboratory Instructor), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1988.11 Use of supplemental retention (Lecturer), Kingery Society, Ann Arbor, MI.
- 1988.12 Major esthetic problems (Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1989.10 Restorative seminars- 3 --one hour seminars, Fall and Winter (Lecturer), Ann Arbor, MI
- 1989.01 Review of restorative procedures (Lecture), Jornadas "Victor Longobardi D", Universidad Central de Venezuela, Caracas, Venezuela.
- 1989.04 Restorative procedures for devital and compromised teeth, School of Dentistry, University of Michigan, Ann Arbor, MI.

- 1989.07 Restorative dentistry: Endodontics, Periodontics, and occlusion for Brazilian Dentists, (Lecturer), Ann Arbor, MI.
- 1989.10 Current trends in Restorative and esthetic dentistry (One-day course), Delta Dental Fund Meeting, Sylvan Resort, Ga ylord, MI.
- 1989.11 Clinical update in operative dentistry (Laboratory Instructor), Ann Arbor, MI.
- 1989.11 Clinical update in operative dentistry (Lecturer) Ann Arbor, MI,
- 1989.12 Porcelain veneers - hands-on (Instructor), Ann Arbor, MI.
- 1990.03 Technique for home bleaching of teeth (Lecturer), Macomb District Dental Hygiene Society, Warren, MI.
- 1990.01 Restorative seminars- 3 –one hour seminars, Fall and Winter (Lecturer), Ann Arbor, MI
- 1990.01 Porcelain veneers - hands-on (Instructor), Ann Arbor, MI
- 1990.04 Esthetic restorative procedures (Lecturer), Ann Arbor, MI.
- 1990.04 North East Regional Board of Dental Examiners - Training for examiners and Continuing Education (Lecturer), Washington DC
- 1990.04 Restorative procedures for devital compromised teeth (Lecturer), Ann Arbor, MI.
- 1990.07 Restorative dentistry, endodontics, periodontics, and occlusion (Lecturer), Belem and Brazilia, Brazil.
- 1990.09 Modifying tooth color with vital bleaching techniques (lecturer), Ann Arbor, MI.
- 1990.10 Electrosurgery and other tissue management aids in restorative practice: hands-on experience (Lecturer), Ann Arbor, MI.
- 1990.10 Theory of post and cores (Lecturer), Southwest Detroit Dental Society, Detroit, MI.
- 1990.11 Clinical update in operative dentistry (Lecturer), Ann Arbor, MI.
- 1990.12 Porcelain veneers and esthetic inlays: hands-on experience (Lecturer), Ann Arbor, MI.
- 1990.12 Bleaching teeth (Lecturer), Macomb District Dental Society, Warren, MI.
- 1991.01 Porcelain veneers and esthetic inlays: hands-on experience (Lecturer), Ann Arbor, MI.
- 1991.03 Modifying tooth color (Lecturer), Veterans Administration Hospital, Ann Arbor, MI.
- 1991.04 North East Regional Board of Dental Examiners - criteria evaluation training (Lecturer), Washington, D.C.
- 1991.06 Review of current esthetic procedures (3-day course), Jackson, WY.
- 1991.07 Restorative dentistry, endodontics, periodontics and occlusion, (Lecturer), Rio de Janeiro, Brazil.
- 1991.08 Color modification of teeth by bleaching (Lecturer), MDA Summer Session, Grand Traverse Resort, Traverse City, MI
- 1991.09 Posterior esthetic restorations (Lecturer), Ann Arbor, MI.
- 1991.11 Techniques for modifying tooth color (Lecturer), Kalamazoo District Dental Society, Kalamazoo, MI.
- 1991.11 Update in operative dentistry, didactic & clinical (Lecturer), Ann Arbor, MI.
- 1991.12 Porcelain laminates -- hands-on (Lecturer), Ann Arbor, MI.
- 1992.01 Porcelain laminates -- hands-on (Lecturer), Ann Arbor, MI.
- 1992.01 Review of tooth bleaching (Lecturer), Washtenaw District Dental Society, Ann Arbor, MI.
- 1992.03 All-porcelain restorations (Lecturer), Parris Island Marine Training Base, U.S. Navy, Parris Island, SC.
- 1992.03 Update for esthetic dentistry (Lecturer), Low Country Dental Study Club, Beaufort, SC.
- 1992.04 North East Regional Board of Dental Examiners - examiner training (Lecturer), Washington, D.C.
- 1992.05 Posterior esthetics (Lecturer), Jackson Dental Society, Jackson, MI.
- 1992.05 Restoration of devital or compromised teeth (Lecturer), Ann Arbor, MI.
- 1992.05 Review of conservative esthetics (Lecturer), Wolverine Dental Society, Detroit, MI

- 1992.06 Effective management of restorative materials for the dental assistants and hygienists (Lecturer), Ann Arbor, MI.
- 1992.10 The rationale for post design and core construction: when, where, why and how? (Lecturer), Ann Arbor, MI.
- 1992.11 Clinical update in operative dentistry (Lecturer), Ann Arbor, MI
- 1992.11 Clinical update in operative dentistry (Clinic Instructor, Hands-on) Ann Arbor, MI
- 1992.12 Indirect esthetic restorations -- new generation porcelain and extended cure composites. (Lecturer and hands-on), Ann Arbor, MI
- 1993.01 Tooth color modification (Lecturer), Veterans Administration, Ann Arbor, MI.
- 1993.03 Indirect posterior and anterior esthetics (Lecturer), San Diego Naval Base, San Diego, CA.
- 1993.03 North East Regional Board of Dental Examiners - examiner training (Lecturer), Washington, D.C.
- 1993.03 Review of current esthetic procedures (Lecturer), Davis-Monthan Air Force Base, Tucson, AZ
- 1993.04 North East Regional Board of Dental Examiners - examiner training (Lecturer), Washington, D.C.
- 1993.06 Making sense out of the maize of new techniques and materials in operative dentistry (Lecturer), Ann Arbor, MI.
- 1993.11 Current concepts in operative dentistry (Lecturer), Rio de Janeiro, Brazil.
- 1994.03 Continuing education for root canal specialists (Lecturer), Ann Arbor, MI.
- 1994.03 North East Regional Board of Dental Examiners - examiner training (Lecturer), Washington, D.C.
- 1994.05 Post and cores (Lecturer), Veterans Administration, Ann Arbor, MI.
- 1994.10 Modifying tooth color with vital bleaching techniques: at home or in the office (Course Director Ann Arbor, MI.
- 1994.11 Update in esthetic restorative materials (Lecturer), Ann Arbor, MI.
- 1994.12 Indirect esthetic restorations - new generation porcelains and extended cure composites (Course Director and Lecturer), Ann Arbor, MI.
- 1995.04 North East Regional Board of Dental Examiners - examiner training (Lecturer), Washington, D.C.
- 1995.06 Restorative techniques and materials (Lecturer), Ann Arbor, MI
- 1995.09 Incorporating all-ceramic and low fusing porcelain in clinical dentistry (Lecturer), Ann Arbor, MI
- 1995.11 Operative dentistry techniques (Course Director, 2-day course), (Lecturer), Brazil,
- 1995.11 Operative dentistry techniques (Course Director, 2-day course), (Lecturer), Brazil.
- 1995.11 Ceramic inlays from machinable glasses. A CEREC training course (Lecturer), Ann Arbor, MI
- 1995.12 Indirect esthetic restorations - new generation porcelain and extended cure composites (Lecturer), Ann Arbor, MI
- 1996.02 Advanced bonded ceramic restoration (Lecturer), Ann Arbor, MI
- 1996.03 North East Regional Board of Dental Examiners - examiner training (Lecturer), Washington, D.C.
- 1996.04 Operative dentistry (Lecturer), Naval Dental School, Bethesda, MD
- 1996.09 Color stability of surface coated glass ionomers (Lecturer), American Dental Association, Orlando, FL.

- 1996.09 Physical properties of Procera Alceram crowns (Lecturer), American Dental Association, Orlando, FL.
- 1996.09 Fracture resistance of three all-ceramic systems (Co-author), American Academy of Esthetic Dentistry, Aspen CO.
- 1996.09 Restorative management of endodontically treated teeth (Lecturer), Ann Arbor, MI
- 1996.10 Ceramic inlays from machinable glasses: a CEREC training course (Lecturer), Ann Arbor, MI
- 1996.10 The endodontically treated tooth, rational for restoration (Lecturer), Muskegon County Study Club, Muskegon, MI
- 1996.11 Periodontal specialists - current ceramic systems (Lecturer), Ann Arbor, MI
- 1996.12 Indirect esthetic restorations - new generation porcelains and extended cure composites (Lecturer), Ann Arbor, MI
- 1997.02 Advances in bonded ceramic restorations (Lecturer), Ann Arbor, MI
- 1997.02 Bond strength of hybrid ionomer liners to dentin and composite (Table Clinic), Academy of Operative Dentistry, Chicago, IL.
- 1997.02 Color stability of compomer restorative materials (Table Clinic), Academy of Operative Dentistry, Chicago, IL.
- 1997.03 Current restorative techniques (Lecturer), Toledo Dental Society, Toledo, OH
- 1997.04 North East Regional Board of Dental Examiners - examiner training (Lecturer), Washington, D.C.
- 1997.11 Complex restorative treatment (Lecturer), Detroit District Dental Society, Detroit, MI.
- 1997.12 Indirect esthetic restorative - new generation porcelains and extended cure composites (Course Director and Lecturer), Ann Arbor, MI
- 1998.02 Conservative to complex esthetic treatment (Lecturer), Annual Hawaiian Dental Forum, Kuai, HI
- 1998.02 Advances in bonded ceramic restorations (Lecturer), Ann Arbor, MI
- 1998.02 Effects of fluorides on porcelain (Table Clinic), Academy of Operative Dentistry, Chicago, IL.
- 1998.02 Plaque pH and fluoride measurements by fluoride containing restoratives (Table Clinic), Academy of Operative Dentistry, Chicago, IL.
- 1998.02 The effects of bur design on particle-size distribution generated by amalgam restoration removal (Table Clinic), Academy of Operative Dentistry, Chicago, IL.
- 1998.03 North East Regional Board of Dental Examiners - Examiner Training (Lecturer), Washington, D.C.
- 1998.11 Indirect esthetic restorative - new generation and extended cure composites (Course Director and Lecturer), Ann Arbor, MI
- 1999.02 Contemporary esthetic dentistry: composites, ceromers, and ceramics (Course Co-Director and Lecturer), Ann Arbor, MI
- 1999.02 An evaluation of bonded amalgam restorations (Table Clinic), of Operative Dentistry, Chicago, IL.
- 1999.02 Depth of cure of resin cement under three thicknesses of porcelain (Table Clinic), of Operative Dentistry, Chicago, IL.
- 1999.02 Shrinkage and depth of cure of condensable composites (Table Clinic), of Operative Dentistry, Chicago, IL.
- 1999.03 North East Regional Board of Dental Examiners - Examiner Training (Lecturer), Washington, D.C.
- 1999.04 Rationale for post design and core construction: when, where, why and how? (Course Director and Lecturer), Ann Arbor, MI

- 1999.06 Update on restorative dentistry, Flying Dentists Association National Meeting (Lecturer), Huron, OH.
- 1999.09 Fundamentals of operative dentistry (Lecturer), Universidad Del Valle Cochabamba, Bolivia.
- 1999.11 Restoration of endodontically treated teeth (Lecturer), Naval Postgraduate Dental School, Bethesda, MD.
- 1999.12 Indirect esthetic restorative - new generation and extended cure composites (Course Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 1999.12 Procedures in restorative dentistry (Lecturer), Universidad Nacional Autonoma de Nicaragua (UNAN) Leon, Nicaragua.
- 2000.02 Contemporary esthetic dentistry (Course Co-Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2000.02 Restoration of endodontically treated teeth and complex esthetics (Lecturer), King Saud University, 11<sup>th</sup> Saudi International Dental Meeting, Riyadh, Saudi Arabia.
- 2000.02 New concepts in post and cores, Vacationland Dental District, Marquette, MI.
- 2000.03 North East Regional Board of Dental Examiners- standardization and calibration (Two lectures), Washington, D.C.
- 2000.03 Update on bonding agents and cements (Course Co-Director and Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2000.04 Rationale for post design and core construction: when, where, why and how (Course Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2000.04 North East Regional Board of Dental Examiners- standardization and calibration (Two lectures), Washington, D.C.
- 2000.05 Clinical evaluation of preparations and restorations (Lecturer), School of Dentistry, West Virginia University, Morgantown, WV.
- 2000.11 2000 esthetic considerations and restoration of devital teeth (One-day, Lecture), Greater New York Dental Meeting, New York, NY.
- 2000.11 Conservation to complex esthetic treatments – color and contour correction (Course Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2000.11 Esthetic considerations and restoration of devital teeth (One day, Lecture), Greater New York Dental Meeting, New York, NY.
- 2001.02 Complex restorative procedures and esthetics (One day, Lecture), Maine Dental Association, Portland, ME.
- 2001.02 Contemporary esthetic dentistry (Course Co-Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.03 North East Regional Board of Dental Examiners- standardization and calibration (Two lectures), Washington, D.C.
- 2001.03 Rationale for post design and core construction: when, where, why and how (Course Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.03 Update on bonding agents and cements (Course Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.05 Review of esthetic techniques (Lecturer), Washtenaw District Dental Society, Ann Arbor, MI.
- 2001.10 Restoring devital teeth (Lecturer), Western Detroit District, Detroit, MI.
- 2001.11 Esthetic dentistry (All day, Lecturer), Michigan Dental Association, Livonia, MI.
- 2001.11 Current restorative dentistry (Lecture), Naval Dental School, Bethesda, MD.
- 2001.11 Tooth color and contour modification with all-ceramic system (All day), University of Pittsburgh, Pittsburgh, PA.

- 2002.01 Trends in restorative dentistry (All day, Lecturer), Central District Dental Society, Lansing, MI
- 2002.04 Innovations in treatment of endodontically treated teeth (Lecturer), Muskegon Dental Society, Muskegon, MI.
- 2002.07 Porcelain Laminates (Lecturer), University of Detroit, Detroit, MI.
- 2002.10 Restoration of Endodontically Treated Teeth, American Dental Association, New Orleans, LA
- 2002.11 Modern concepts in restorative and esthetic dentistry (Lecturer, 12 hours), Lima, Peru.
- 2002.11 Modern concepts in restorative and esthetic dentistry (Lecturer, 14 hours), Santiago, Chile.
- 2002.11 Rationale for post and core construction (Course Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2002.11 Update on Bonding Agents and Cements (Course Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2002/10 Panel discussion: new concepts for predictable restoration of pulpless teeth (Lecturer), American Dental Association, New Orleans, LA
- 2003.03 Operative Dentistry Update (Six hours, Lecturer), United States Navy, Norfolk, VA.
- 2003.03 Conservative tooth color and contour modification (Lecturer), Valley Forge Dental Society, Valley Forge, PA.
- 2003.03 Examiner training and calibration (Lecturer) American Association of Dental Examiners, Washington, D.C.
- 2003.03 New ceramics (Lecturer), University of Detroit, Detroit, MI.
- 2003.04 The devital tooth: a combined treatment approach – hands-on (Course Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2003-03 Overview of esthetic restorative dentistry (Lecturer), Michigan Dental Association, Marquette, MI.
- 2003-05 Conservative Operative Techniques (Lecturer), New Center Study Club, Detroit, MI.
- 2004.01 Hands-on training for dental assistants (Lecturer), Washtenaw Community College, Ann Arbor, MI.
- 2004.07 Porcelain Laminates (Lecturer), University of Detroit Mercy, Detroit, MI.
- 2004.09 Dentin Adhesives and Cements (Lecturer), Saginaw Dental Society, Saginaw, MI.
- 2004.09 Hands-on training for dental assistants (Lecturer), Washtenaw Community College, Ann Arbor, MI.
- 2004.10 Predictable posterior composite restorations (Course Director), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2004.10 The devital tooth: a combined treatment approach (Course Director and Lecturer), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2005.01 Changes in the NERB Examination for Dentistry (Lecturer), CODE Meeting, Hosted by New York University, New York, NY.
- 2005.04 CAD/CAM Ceramics (Lecturer), University of Detroit Mercy, Detroit, MI.
- 2005.05 Hands-on training for dental assistants (Lecturer), Washtenaw Community College, Ann Arbor, MI.
- 2005.05 Hands-on training for dental assistants (Lecturer), Washtenaw Community College, Ann Arbor, MI.
- 2005.06 Posterior Composites and Dental Cements (Lecturer), Copper County Dental Society, Copper Harbor, MI.
- 2005.09 Training for dental assistants for expanded duties (Lecturer), Washtenaw Community College, Ann Arbor, MI.



- 2005.11 Current trends in tooth whitening (Lecturer), Dental Advisor Symposium, Ann Arbor, MI.
- 2005.11 Training Dental Examiners (Lecturer), North East Regional Board of Dental Examiners, Washington, D.C.
- 2006.01 Training for dental assistants for expanded duties (Lecturer) ADEP program, Washtenaw Community College, Ann Arbor, MI.
- 2006.03 Standardization and calibration of examiners (Lecturer), North East Regional Board of Dental Examiners, Spring General Assembly, Washington, D.C.
- 2006.05 Training for dental assistants for expanded duties (Lecturer) ADEP Program, Washtenaw Community College, Ann Arbor, MI.
- 2006.05 Training for dental assistants for expanded duties (Lecturer) Washtenaw Community College students, Washtenaw Community College, Ann Arbor, MI.
- 2006.08 Training for dental assistants for expanded duties (Lecturer) ADEP Program, Washtenaw Community College, Ann Arbor, MI.
- 2006.08 ADEX examination committee (Member), Chicago, IL
- 2006.09 Simple to Complex Restorative Dentistry (Lecturer), Sao Paulo, Brazil
- 2006.10 ADEX calibration committee (Chair), Chicago, IL
- 2007.01 Training for dental assistants for expanded duties (Lecturer) Washtenaw Community College students, Washtenaw Community College, Ann Arbor, MI
- 2007.01 Training and calibration of new dental examiners, review examination process and criteria (Lecturer), Bethesda, MD
- 2007.02 Tooth color modification – whitening to ceramics (Lecturer), Maui, HI
- 2007.02 Application of dental cements (Lecturer), Western Detroit District Dental Society, Novi, MI
- 2007.03 Restoring endodontically treated teeth and ceramics (Lecturer), Fort Wayne, IN
- 2007.03 IADR meeting, New Orleans, LA
- 2007.05 American Academy of Cosmetic Dentistry, (Member), Atlanta, GA
- 2007.05 Nobel Biocare World Conference, Las Vegas, NV
- 2008.06 North Regional Board of Dental Examiners – Zegarelli Lecture “Potpourri of Restorative Techniques” (Lecturer), Orlando, FL
- 2008.10 Code Meeting sponsored by NYU – Cambra, NY, NY
- 2008.10 Homecoming University of Michigan – Conservative tooth color and contour modification (Lecturer), Ann Arbor, MI
- 2008.11 AADE Meeting – San Antonio, TX
- 2008.11 GC Dental Corporation. Properties and manipulation of composite materials (Lecturer), Pontiac, MI
- 2008.11 Jackson County Dental Society – Are posts necessary for restoring endodontically treated teeth? (Lecturer), Jackson, MI
- 2009.01 Kent County Dental Society – Ceramics and Cement (Lecturer), Grand Rapids, MI
- 2009.02 Dentsply Fellowship Meeting, Chicago, IL
- 2009.10 Code Meeting sponsored by NYU – Cambra, NY, NY
- 2010.02 Chicago Dental Society Midwinter Meeting- Controversies in dentistry, (panel member), Chicago, IL
- 2010.02 Chicago Dental Society Midwinter Meeting- Restorative dentistry, (Lecturer), Chicago, IL
- 2010.09 Restorative Dentistry: Clinical techniques, new products and systems. Delta Dental, Gaylord, MI – day seminar
- 2010.10 CAMBRA meeting sponsored by New York University
- 2010.10 CODE meeting Eastern Schools

- 2010.11 Restorative Dentistry; Simple to Complex. Midwest Oral and Maxillofacial Surgeons-day seminar
- 2010.12 Pilot mock licensure examination at University of Detroit
- 2011.04 Conservative Esthetic Management-Color and Shape Modification. Michigan Dental Association Annual Meeting-3 hour presentation
- 2011.04 Direct Posterior restorations and saving Teeth. Michigan Dental Association Annual Meeting-3 hour presentation
- 2011.10 Restorative Dentistry: Clinical techniques, new products and systems. Delta Dental, Livonia, MI – day seminar
- 2011.10 Resort District Dental - Current dental adhesives and cements and their clinical application. 2 hours
- 2011.11 Muskegon District- Restoration of endodontically treated teeth- 3 hours

**Table Clinic Presentations (\*Presenter)**

- 2000.02 Falcao F\*, Hamilton J, Yaman P, Dennison J. Air abrasion: clinical considerations. Academy of Operative Dentistry, Chicago, IL.
- 2000.02 Griego A\*. Polishing effect on surface roughness and stain of polymer materials (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.02 Pecora N\*, Yaman P, Dennison JF, Herrero A. Bond strength of single bottle adhesives using two testing devices (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.02 Zieziulla J\*, Yaman P, Herrero A, Dennison JB. Variations in placement techniques and void formation on posterior composites (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.02 Gole J\*, Neme AL, Yaman P, Wagner WC, Pink FE. Comparison of 5<sup>th</sup> and 6<sup>th</sup> generation bonding agents (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.02 Sonyias J\*, Neme AL, Wagner WC, Yaman P, Pink FE. Effect of vital bleaching on dentin bond strength of composite (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.02 Al-Swuailem AS\*, Yaman P, Dennison JB. Effect of curing DBA prior to cementation on shear bond strength (Table Clinic), Academy of Operative Dentistry, Chicago, IL.
- 2001.02 Semprum A\*, Almeida J, Dennison JB, Yaman P. Effect of dentin conditioner on the bond strength of hybrid glass ionomer cement (Table Clinic), Academy of Operative Dentistry, Chicago, IL.
- 2001.02 Dancy WK\*, Yaman P, Dennison JB. Accuracy of shade selection using photolorimetric analysis (Table Clinic), Academy of Operative Dentistry, Chicago, IL.
- 2001.02 Furgeson J\*. Variations in surface treatments for composite repair (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.02 Pecora N\*. Bond strength and SEM evaluation of three self-etching primers (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.02 Zieziulla J\*. Evaluation of microleakage in posterior composites using three placement techniques (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.02 Souyias J\*. Effects of erbium:YAG laser and rotary instrument preparation on composite microleakage (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2001.02 Bileisi N\*. Changes in surface roughness of fluoride - releasing resin composites (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2002.02 Kanjirath P\*, Dennison JB, Yaman P. A utility and cost effectiveness analysis of treatment alternatives for replacement of a single missing tooth (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2002.02 Brenner R, Neiva G, Yaman P, Dennison JB. Evaluating stability of tooth color change with two bleaching materials (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2002.02 Mantellini M, Nor J, Yaman P, Dennison JB. Effect of the degree of adhesive polymerization on odontoblasts viability in-vitro (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2002.02 Villalobos E, Gertsner G, Dennison JB, Yaman P. Effect of bite splint therapy on ACTH levels in bruxers and non-bruxers (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.

- 2003.02 Nakfoor B, Yaman P, Dennison J, Herrero A. Effect of LED lights on composite polymerization shrinkage and hardness (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2003.02 Lindemann M, Yaman P, Dennison J, Herrero A. Removal of fiber posts: efficiency and effectiveness (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI
- 2003.02 Ghavamian N, Neiva G, Yaman P, Dennison J. Color stability of a composite material with different surface treatments (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2003.02 Vettriano JT, Neme AL, Pink FE, Yaman P. Effect of cavity treatment on in-vitro amalgam microleakage (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2003.02 Sclafani RV, Wagner WC, O'Kray HO, Yaman P. Effect of media on enamel wear against two materials (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2003.02 Kooistra S, Dennison JB, Yaman P. Measurement of clinical Class II caries extension versus radiographic appearance using F-speed film (Table Clinic), Academy of Operative Dentistry, Chicago, IL.
- 2005.02 Godfrey C, Yaman P, Dennison J, Herrero A. Effect of DBA curing sequence on SBS and margin fit (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2005.02 Nakfoor B, Dennison J, Herrero A, Yaman P. Shear bond strength of two cements to ceramic substrates (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2005.02 Preslan AH, Yaman P, Herrero A, Dennison JB. A comparison of visual and computer system shade matching accuracy (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2005.02 Tenniswood CA, Yaman P, Dennison J, Herrero A. Color stability of four composites exposed to a staining medium (Table Clinic), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2011.02 Chang M, Yaman P, Dennison J, Neiva G, Herrero A. Physical property evaluation of four composite materials (Poster), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2011.02 Krishnan GA, Dennison, JB, Razzoog ME, Yaman P. Fracture resistance of pressable Zirconia crowns with modified core designs (Poster), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2011.02 Brown T, Yaman P, Chen L, Suh BI. Metal-bonding: contact angles on primed metals and bond strength tests (Poster), School of Dentistry, University of Michigan, Ann Arbor, MI.
- 2011.03 Evaluation of Treatment Methodologies for Pulpless Teeth. Chair -Poster-Sequence #356-Prosthodontic research, IADR Conference, San Diego, CA.
- 2011.03 Chang M\*, Yaman P, Dennison J, Neiva G, Herrero A. Physical property evaluation of four composite materials. IADR Abstract #2015 (poster), San Diego, CA.
- 2011.03 Krishnan GA\*, Dennison JB, Razzoog ME, Yaman P. Fracture resistance of pressable zirconia crowns with modified core designs. IADR Abstract #2015 (poster), San Diego, CA.
- 2011.03 Oikonomopoulou A, Dennison J\*, Yaman P, Neiva G. Clinical assessment of IPS empress inlay/onlay margins. IADR Abstract #29419 (oral), San Diego, CA.
- 2011.03 Diaz R, Yaman P\*, Dennison J, McDonald N, Herrero A. Effect of cement thickness and post preparation on post retention. IADR Abstract #3104 (oral), San Diego, CA.

- 2012.03 Thompson J, Dennison J\*, Yaman P. Translucency and radiopacity of five resin composites. AADR Abstract #166 (oral), Tampa, FL.
- 2012.03 Dhuhair S\*, Neiva G, Dennison J, Yaman P. Clinical evaluation of pH challenges in subjects with/without erosion. AADR Abstract #337 (poster), Tampa, FL.
- 2012.03 Garcia D\*, Yaman P, Dennison J, Neiva G. Polymerization shrinkage and hardness of three bulk fill flowable composites. AADR Abstract #860 (poster), Tampa, FL.
- 2012.03 Salazar D\*, Yaman P, Dennison J. Inorganic and prepolymerized filler analysis of four composite resins. AADR Abstract #1047 (poster), Tampa, FL.
- 2012.03 Alkudhairy F, Yaman P\*, Dennison J, McDonald N.E effect of irrigation solutions on bond strength of fiber posts. AADR Abstract #1219 (oral), Tampa, FL.

## GRANTS and CONTRACTS

### Federal Grants

1. Title Characterization and Resealing of Resin Margin Defects  
 Number: DE0??????  
 Sponsor: NIH/NIDR  
 Amounts: \$632,665  
 Period: 5/1/98-4/30/02  
 PI: Dennison JB  
 Role: Co-Investigator (5% Effort)  
 Status: APPROVED / FUNDED / Currently No Cost Extension
  
2. Title Characterization and Resealing of Resin Margin Defects  
 Number: DE0??????, Competing Continuation  
 Sponsor: NIH/NIDR,  
 Amounts: \$382,500  
 Period: 9/1/05-6/30/06  
 PI: Dennison  
 Role: P.I. (20% effort)  
 Status: APPROVED / FUNDED / COMPLETED

### Corporate Contracts

1. Title Clinical Evaluation of New Condensable Posterior Composite  
 Number: ???????  
 Sponsor: Kerr Corporation  
 Amounts: \$21,930  
 Period: ???????  
 PI: Dennison  
 Role: Co-investigator  
 Status: FUNDED / COMPLETED
  
2. Title Clinical Evaluation of a New Microfilled Posterior Composite Resin  
 Number: ???????  
 Sponsor: Ivoclar North America

- Amounts: \$19,630  
 Period: ???????  
 PI: Dennison  
 Role: Co-investigator  
 Status: ???????
3. Title Clinical Evaluation of a New Micro-Hybrid Composite Resin in Posterior Teeth  
 Number: N0003793  
 Sponsor: Ivoclar North America  
 Amounts: \$41,470  
 Period: 2/1/2001-1/31/2003  
 PI: Dennison J, Yaman P  
 Role: Co-PI  
 Status: APPROVED / FUNDED / COMPLETED
4. Title Clinical Evaluation of a Vital Bleaching System  
 Number: N004160  
 Sponsor: Ranir Corp  
 Amounts: \$48,356  
 Period: 7/1/2002 - 6/30/2003  
 PI: Dennison J, Yaman P, Fasbinder DJ  
 Role: Co-PI (5% effort)  
 Status: APPROVED / FUNDED / COMPLETED
5. Title Clinical Evaluation of a New High Viscosity Posterior Composite  
 Number: ?????  
 Sponsor: Kerr Corporation  
 Amounts: \$36,790  
 Period: 09/01/1999 - 08/31/2003  
 PI: Dennison JP, Yaman P  
 Role: Co-PI (5% effort)  
 Status: APPROVED / FUNDED / COMPLETED
6. Title Clinical Evaluation of a Micro-Hybrid Composite Resin in Posterior Teeth  
 Number: N0003793  
 Sponsor: Ivoclar North America  
 Amounts: \$47,320  
 Period: 4/1/2002-3/31/2006  
 PI: Dennison JP, Yaman P  
 Role: PI (5% Effort)  
 Status: APPROVED / FUNDED / COMPLETED
7. Title A clinical evaluation of a self-etch bonding agent for bonding indirect restorations  
 Number:  
 Sponsor: L.D. Caulk Co  
 Amounts: \$54,080  
 Period: 1/1/2005 – 5/31/2007  
 PI: P. Yaman, J. Dennison  
 Role: PI

- Status: APPROVED / FUNDED / ACTIVE
8. Title A clinical evaluation of a self-etch, self-adhesive, self-curing resin cement for bonding of indirect restorations  
Number: N007974  
Sponsor: L.D. Caulk Co  
Amounts: \$65,260  
Period: 6/7/2006 – 8/2/2009  
PI: P. Yaman, J. Dennison  
Role: PI  
Status: APPROVED / FUNDED / ACTIVE
  9. Title Effectiveness of a 2-step polishing system for composite restorations  
Number: N011346  
Sponsor: L.D. Caulk Co  
Amounts: \$  
Period: 9/7/2009 – 9/31/2009  
PI: P. Yaman, J. Dennison  
Role: PI  
Status: APPROVED / FUNDED / COMPLETE
  10. Title Radiopacity of different flowable composites  
Number: N011535  
Sponsor: Heraeus/Kulzer  
Amounts: \$8,190  
Period: 9/1/2009 – 9/31/2010  
PI: P. Yaman, J. Dennison  
Role: PI  
Status: APPROVED / FUNDED / COMPLETE
  11. Title A Comparison of Depth of Cure of Two Flowable Composites  
Number: N012287  
Sponsor: Heraeus/Kulzer  
Amounts: \$5,122  
Period: 1/31/2010 – 3/31/2010  
PI: P. Yaman, J. Dennison  
Role: PI  
Status: APPROVED / FUNDED / COMPLETE

**Student Research Grants**

1. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3,000  
Period: 2000-2001  
PI: K Dancy, P Yaman , JB Dennison  
Role: APPROVED / FUNDED / COMPLETED
2. Title Graduate Student Research Support

- Number: 2000-2001  
Sponsor: Delta Dental Fund  
Amounts: \$2,807.31  
Period: 2006-Present  
PI: M Jimenez, P Yaman , JB Dennison  
Role: APPROVED / FUNDED / COMPLETE
3. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$2,000  
Period: 2001-2002  
PI: S Goverdhanam, P Yaman , JB Dennison  
Role: APPROVED / FUNDED / COMPLETED
4. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$2150  
Period: 2002-2003  
PI: S Kooistra, P Yaman, JB Dennison  
Role: Co-PI  
Status: APPROVED / FUNDED / COMPLETED
5. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$1940  
Period: 2002-2003  
PI: P Kanjirath, P Yaman, JB Dennison  
Role: Co-PI  
Status: APPROVED / FUNDED / COMPLETED
6. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3000  
Period: 2003-2004  
PI: C McLaren, P Yaman, JB Dennison  
Role: Co-PI  
Status: APPROVED / FUNDED / COMPLETED
7. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3000  
Period: 2003-2004  
PI: J McLaren, P Yaman, JB Dennison  
Role: Co-PI



- Status: APPROVED / FUNDED / COMPLETED
8. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3,000  
Period: 2006-Present  
PI: Carlos Uribe, P Yaman , JB Dennison  
Role: APPROVED / FUNDED / COMPLETED
  9. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3,000  
Period: 2005-Present  
PI: T Lacin, P Yaman , JB Dennison  
Role: APPROVED / FUNDED / COMPLETED
  10. Title A Comparison of the Clinical Axial Extension of Class II Carious Lesions with Three Diagnostic Images  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3,000  
Period: 2006-2007  
PI: M Bin-Shuwaish, P Yaman, JB Dennison  
Role: Co-PI  
Status: APPROVED / FUNDED / COMPLETED
  11. Title Clinical Application of DIAGNOdent for Quantification of Dental Caries: In-Vitro Study  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3,000  
Period: 2006-2007  
PI: M Khalife, P Yaman, JB Dennison  
Role: Co-PI  
Status: APPROVED / FUNDED / COMPLETED
  12. Title Polymerization Shrinkage and Hardness of New Low Shrinkage Composites  
Number:  
Sponsor: University of Michigan Summer Research Program  
Amounts: \$5,693  
Period: 05/01/06-08/31/06  
PI: A Preslan, Yaman P, JB Dennison  
Role: Co-PI  
Status: APPROVED / FUNDED / COMPLETED
  13. Title Microleakage and Shear Bond Strength Evaluation of New Composites  
Number:

- Sponsor: University of Michigan Summer Research Program  
Amounts: \$5,693  
Period: 05/01/06-08/31/06  
PI: C Tenniswood, P Yaman, JB Dennison  
Role: Co-PI  
Status: APPROVED / FUNDED / COMPLETED
14. Title Graduate Student Research Support  
Number:  
Sponsor: AADR Summer Student Research Fellowship  
Amounts: \$2,685  
Period: 2006-2007  
PI: S Barbat, P Yaman, JB Dennison  
Role: Co-Pi  
Status: APPROVED / FUNDED / COMPLETED
15. Title Graduate Student Research Support  
Number:  
Sponsor: University of Michigan Summer Student Research Fellowship  
Amounts: \$3,000  
Period: 2006-2007  
PI: V Phunthikaphadr, J Nor, P Yaman  
Role: Co-Pi  
Status: APPROVED / FUNDED / COMPLETED
16. Title Graduate Student Research Support  
Number:  
Sponsor: University of Michigan Summer Student Research Fellowship  
Amounts: \$3,000  
Period: 2006-2007  
PI: I Fotek, P Yaman, JB Dennison  
Role: Co-Pi  
Status: APPROVED / FUNDED / COMPLETED
17. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3,000  
Period: 2006-Present  
PI: A Jaquery, J Nor, P Yaman,  
Role: Co-PI  
Status: APPROVED / FUNDED

18. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3,000  
Period: 2008-2009  
PI: R Diaz, P Yaman,  
Role: Co-PI  
Status: APPROVED / FUNDED
19. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3,000  
Period: 2009  
PI: P Waikasetkorn, P Yaman,  
Role: Co-PI  
Status: APPROVED / FUNDED
20. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$3,000  
Period: 2009  
PI: M Ballani, P Yaman,  
Role: Co-PI  
Status: APPROVED / FUNDED
21. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$2950.51  
Period: 2011  
PI: M Chang, P Yaman,  
Role: Co-PI  
Status: APPROVED / FUNDED
22. Title Graduate Student Research Support  
Number:  
Sponsor: Delta Dental Fund  
Amounts: \$2992.31  
Period: 2011  
PI: D Salazar, P Yaman,  
Role: Co-PI  
Status: APPROVED / FUNDED

22. Title Graduate Student Research Support  
 Number:  
 Sponsor: Delta Dental Fund  
 Amounts: \$3000.00  
 Period: 2011  
 PI: D Garcia, P Yaman,  
 Role: Co-PI  
 Status: APPROVED / FUNDED
22. Title Graduate Student Research Support  
 Number:  
 Sponsor: Delta Dental Fund  
 Amounts: \$2426  
 Period: 2011  
 PI: M Al-Mazedi, P Yaman,  
 Role: Co-PI  
 Status: APPROVED / FUNDED

## PUBLICATIONS

### Published Chapters, Monographs, and Books:

1. Carter LM, Yaman P. Dental Instruments. CV Mosby Co, St. Louis, MO, 1981.
2. Charbeneau GT, Ed. et al. "Principles Practice of Operative Dentistry", 3rd ed., Philadelphia, Lea and Febiger, 1988 (Two chapters)

### Published Theses:

### Published Articles (\*Refereed)

- 1.\* Yaman P, Castelli WA, Nasleti CE, Diaz-Perez R. Self-setting acrylic as an immobilizing agent in mandibular fractures. *Or al Surg Oral Med Oral Path* 1973;30:459-466.
- 2.\* Zillich RM, Yaman P. Restoring the endodontically treated maxillary premolar: Part I. The effect of root curvature on post length. *Endod Dent Traumatol* 1985;9:135-137.
- 3.\* Yaman P, Brandau, HE. A comparison of three epoxy die materials. *J Prosthet Dent* 1986;55:328-331.
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5. Yaman P, Zillich RM. Restoring the endodontically treated bi-rooted premolar: the effect of endodontic and post preparation on width of root dentin. *J Mich Dent Assoc* 1986;68:79-81.
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103. Krishnan GA\*, Dennison JB, Razzoog ME, Yaman P. Fracture resistance of pressable zirconia crowns with modified core designs. IADR Abstract #2015 (poster), San Diego, CA.
104. Oikonomopoulou A, Dennison J\*, Yaman P, Neiva G. Clinical assessment of IPS empress inlay/onlay margins. IADR Abstract #29419 (oral), San Diego, CA.
105. Diaz R, Yaman P\*, Dennison J, McDonald N, Herrero A. Effect of cement thickness and post preparation on post retention. IADR Abstract #3104 (oral), San Diego, CA.
106. Thompson J, Dennison J\*, Yaman P. Translucency and radiopacity of five resin composites. AADR Abstract #166 (oral), Tampa, FL.
107. Dhuhair S\*, Neiva G, Dennison J, Yaman P. Clinical evaluation of pH challenges in subjects with/without erosion. AADR Abstract #337 (poster), Tampa, FL.
108. Garcia D\*, Yaman P, Dennison J, Neiva G. Polymerization shrinkage and hardness of three bulk fill flowable composites. AADR Abstract #860 (poster), Tampa, FL.
109. Salazar D\*, Yaman P, Dennison J. Inorganic and prepolymerized filler analysis of four composite resins. AADR Abstract #1047 (poster), Tampa, FL.
110. Alkudhairy F, Yaman P\*, Dennison J, McDonald N. Effect of irrigation solutions on bond strength of fiber posts. AADR Abstract #1219 (oral), Tampa, FL.

**Published Self-Instructional Units and Course Syllabi****Special Instructional Materials: Videotapes**

1. Yaman P, Lorey RE, Cartwright CB. Complex esthetic restorations. In: *Teaching Manual: Take care of your teeth to protect your heart*. BioMedical Communications, 1979, School of Dentistry, University of Michigan, Patient Education Advisory Committee Tapes, Ann Arbor, MI.
2. Yaman P. Four-handed dentistry. *Project ACORDE Television Tape* 1981, School of Dentistry, University of Michigan, Ann Arbor, MI.
3. Yaman P, Lorey RE, Cartwright CB. Complex esthetic restorations. In: *Teaching Manual: revised The Cerestore Crown*, Television tape sponsored by Johnson & Johnson, 1984, School of Dentistry, University of Michigan, Ann Arbor, MI.
4. Yaman P. Crown preparation and cementation. Videotape, Washtenaw Community College, 2003 Ann Arbor, MI.

**Special Instructional Materials: Teaching Manuals**

1. Yaman P. Restorative considerations following endodontic treatment. In: *Endodontics-I Teaching Manual*; Corcoran J (Ed), 1986, School of Dentistry, University of Michigan, Ann Arbor, MI.
2. Yaman P. Complex esthetics. In: *Preclinical Laboratory Manual*, (Ed), 1983, School of Dentistry, University of Michigan, Ann Arbor, MI.

**Special Instructional Materials: NERB Training Manuals and Calibration Kits:**

1. Yaman P, NERB: Training for dental examiners, 1988.
2. Yaman P, NERB: Conduct of the examination, 1990.
3. Yaman P, NERB: Calibration kit for restorative and periodontics, 1997.
4. Yaman P, NERB: Manual for examiners and candidates, 1997.
5. Yaman P, NERB: Updated Clinical Written Examinations, 1986-Present.
6. Yaman P, NERB: Fabricated Training Typodonts for Examiner Training and Calibration, 2002.
7. Yaman P, NERB: Criteria for Clinical Examination, 2001
8. Yaman P, NERB: Examination Manuals for Examiners and Students, 2001.
9. Yaman P, American Dental Examiners: New criteria for national dental licensure exam
10. Yaman P, American Dental Examiners: Updated Clinical Written Examinations, 2011.
11. Yaman P, NERB and American Dental Examiners: Update and add to training and calibration PowerPoints, 2012

# Exhibit G.

## Advanced Dental Education

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### Operative Dentistry Masters Program



The Department of Operative Dentistry at the University of North Carolina at Chapel Hill offers a three-year graduate program leading to a Certificate in Operative Dentistry Master of Science degree conferred by the Graduate School of the University of North Carolina. The primary objective of this program is to provide advanced Operative Dentistry training that will prepare graduates for careers in dental education and research. Graduates also have the potential for other careers such as clinical or research directors in companies with a dental emphasis, and consultants to dental corporations, insurance providers, public health policy organizations, professional societies, and philanthropic dental research or education funding agencies. The des
















the program is consistent with the stated objectives in the AADS Curriculum Guidelines for Postdoctoral Operative Dentistry (J Dent Educ 1993; 57: 832-836).


#### **FOR MORE INFORMATION, CONTACT:**


Dr. Andre Ritter  
Professor & Graduate Program Director  
UNC School of Dentistry  
Department of Operative Dentistry  
CB #7450, 441 Brauer Hall  
Chapel Hill, NC 27599-7450

Telephone: (919) 843-6356  
Fax: (919) 966-5660  
Email: [rittera@dentistry.unc.edu](mailto:rittera@dentistry.unc.edu)

[^Back to Top](#)

Faculty	Title	Phone	Email
Lee Boushell	Associate Professor	537-3982	
Terrence Donovan	Professor	537-3983	
Richard 'Scott' Eidson	Director, Clinical Associate Prof	537-3984	
Glenn Garland	Clinical Assistant Prof	537-3139	
George Gerdtz	Director, Clinical Associate Prof	537-3157	
Carol Haggerty	Director, Clinical Associate Prof	537-3143	
Harald Heymann	Professor	537-3985	
Ralph Leonard	Director, Clinical Professor	537-3657	
Kenneth May, Jr.	Professor	537-3242	
Samuel Nesbit	Clinical Professor	537-3159	
James Parker	Director AEGD Program, Clinical Associate Prof	537-3980	
Andre Ritter	Director Operative Dentistry Graduate Program, Professor	537-3987	
Douglas Solow	Associate Dean, Clinical Associate Prof	537-3588	
John Sturdevant	Associate Professor	537-3989	
Edward Swift, Jr.	Chair, Professor	537-3981	

Karen Tiwana	Clinical Assistant	537-3146	
	Prof		

Aldridge Wilder, Jr.	Professor	537-3347	
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# **Operative Dentistry Masters Program**

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## **Admissions Information**

### **APPLICATION DEADLINE**

Applications to the Graduate School of the University of North Carolina must be received on or before **December 11**. Applications received after the deadline will not be considered.

### **PROCEDURES**

Applications for admission to the program are made online through the UNC Graduate School: [http://www.gradschool.unc.edu/students\\_prospective.html](http://www.gradschool.unc.edu/students_prospective.html). Candidates should apply for the Second Summer session term (July 1 start date).

General questions may be directed to:

The Graduate School  
University of North Carolina  
200A Bynum Hall, CB# 4010  
Chapel Hill NC 27599-4010

Phone: 919.966.2611

As part of the Graduate School application, applicants must upload a curriculum vitae, three letters of recommendation and a statement of purpose, outlining motivations, experience and professional goals. If available, National Dental Board Scores should be uploaded as Supplement Number 1. Applicants must also upload unofficial transcripts. Official transcripts should not be sent to the department or the Graduate School until requested to do so.

The application fee must be paid in U.S. funds or through an international money order. This fee cannot be waived. Applications that arrive without the required fee will remain unprocessed, pending receipt of the fee. The Graduate School will send a notification of receipt of the application only after the fee has been paid and the application has been processed.

Application packets are reviewed by the program director and an admissions committee. Not more than three applicants are accepted for admission each year. Applicants should not request an interview unless invited to do so by the program director.

Admission criteria are applied equally to all applicants regardless of race, gender, color, national origin, or religion. The University and the Department encourage minority student applications.

### **ADMISSIONS REQUIREMENTS**

Applicants must possess a DDS, DMD, or equivalent degree.

### **INTERNATIONAL STUDENTS**

International students should submit National Board Scores, if available, as Supplement Number 1 in the Graduate School application.

International students are required to take the TOEFL exam, with a minimum total score of 550 and a minimum score of 50 in each section (internet-based TOEFL exam with a minimum total score of 79 is acceptable as well). The exam score must be current (less than two years old). When registering for the test, candidates should indicate the University of North Carolina-Chapel Hill Graduate School (institution #5816) as a score recipient. The

TOEFL test is administered by the Educational Testing Service (ETS), CN6151, Princeton, New Jersey 08541-6151. Applicants should take the test no later than October to ensure that scores arrive by the application deadline.

After provisional acceptance into the program, International students will be sent a financial certificate by the School of Dentistry's Office of Academic Affairs. The completed Financial Certificate must outline the financial support available to the student, along with original evidence to support the amounts indicated (bank statements, scholarship letters, etc.). International students should not complete a financial certificate until requested to do so by the School of Dentistry.

Students who are not graduates of an ADA-accredited dental school must complete a simulation exam as part of their NC intern permit process. Such candidates must pass and complete the simulation exam within two months of their formal matriculation in the program. If a candidate does not pass the simulation exam within the two-month interval, he or she cannot advance in the clinical program and will be subject to dismissal from the program.

### **CONTACT**

For additional information about the admissions process, please contact:

Dr. Andre Ritter  
Professor & Graduate Program Director  
UNC School of Dentistry  
Department of Operative Dentistry  
CB #7450, 441 Brauer Hall  
Chapel Hill, NC 27599-7450

Phone: (919) 843-6356

Fax: (919) 966-5660

Email: [rittera@dentistry.unc.edu](mailto:rittera@dentistry.unc.edu)

## **Operative Dentistry Masters Program**

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### **Advanced Education Program - Orientation Materials**

- Graduate School Leave Policies
- Intern Permit/License Policy
- DEA Number
- Registration Information
- Maternity/Paternity/Adoption Policy
- Vacation Policy
- Advance Education Program Directors Committee
- Advance Education Programs by Contact

### **Advanced Education Program - Protocol Information**

- 2012 Important Research Project Dates
- FAQs about MS Research Protocol Submission
- Thesis Group Definitions
- **Thesis Project Proposal/Protocol**
  - Thesis Format
  - Thesis Guidelines
  - Thesis Selections
- Instructions for Research Plan
- Protocol Abstract Template
- Writing the Protocol Review & Guidelines for Reviewing Protocols
- Application for use of Lab Animals or Human Subject in Research
- Inclusion of Women and Minorities in Clinical Research

## Operative Dentistry Masters Program

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### Curriculum

#### First Year - Summer Semester

- OPER 732 Introduction to Operative Dentistry
- OPER 731 Cariology
- OMSU 720 Clinical Pharmacology and Therapeutics
- OMSU 707 Regional Anatomy

#### First Year - Fall Semester

- DENG 701 Research Design
- DENG 701A Interdisciplinary Conf
- OBIO 721 Introduction to Extracellular Matrices
- OBIO 722 Introduction to Host Pathogens Interactions
- OPER 701A Operative Dentistry Seminar
- OPER 702A Operative Literature Review
- OPER 736A Graduate Dental Biomaterials
- OPER 790A Operative Dentistry Clinic
- PERI 820 Introduction to Implants

#### First Year - Spring Semester

- DENG 701B Interdisciplinary Conf
- DENG 702 Biostatistics
- OPER 701B Operative Dentistry Seminar
- OPER 702B Operative Literature Review
- OPER 704A Operative Dentistry Seminar
- OPER 736B Graduate Dental Biomaterials
- OPER 790B Operative Dentistry Clinic
- ORAD 706 Advanced Oral Radiology

#### Second Year - Summer Semester

- OPER 790C Operative Dentistry Clinic

#### Second Year - Fall Semester

- DENG 702A Interdisciplinary Conf
- DENG 703 Applied Research Methods
- OPER 701C Operative Dentistry Seminar
- OPER 702C Operative Literature Review
- OPER 790D Operative Dentistry Clinic

#### Second Year - Spring Semester

- DENG 702B Interdisciplinary Conf
- OPER 702D Operative Literature Review
- OPER 704B Operative Dentistry Seminar
- OPER 738 Clinical Research Methods
- OPER 790E Operative Dentistry Clinic
- OPER 903B Operative Dentistry Research II - Thesis Material

#### Third Year - Summer Semester

- OPER 790G Operative Dentistry Clinic

**Third Year - Fall Semester**

- OPER 790G Operative Dentistry Clinic
- OPER 993 Thesis Development

**Third Year - Spring Semester**

- OPER 790G Operative Dentistry Clinic
  - OPER 993 Thesis Development
-

# Tab 4

# Exhibit A.

# School of Dentistry Bulletin 2012-2013

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## IU Resources

- Indiana University Web Site
- Administration
- Policies
- Equal Opportunity/  
Affirmative Action Policies
- Oncourse
- OneStart

## IUPUI Resources

- IUPUI Web Site
- Administration
- Academic Calendar
- Campus Map

## Contact Information

If you are seeking further assistance view our Contact Information.

Dentistry » Graduate Programs » Fields of Study

## Graduate Programs

### Fields of Study

In addition to the general requirements for the degree program as described in the following pages, the various departments may specify additional didactic or clinical requirements in order for students to qualify for a major or



minor in that field. Details regarding specific course requirements for individual graduate (degree) and postgraduate (certificate) programs are available from the School of Dentistry. Contact the Office of Graduate Education (for the M.S., M.S.D., and Ph.D. programs) and the Department of Oral Surgery and Hospital Dentistry for the general practice residency and the oral and maxillofacial surgery residency (see Contact Information).

- Dental Materials
- Dental Science
- Endodontics
- General Practice Residency (GPR)
- Maxillofacial Prosthetics
- Operative Dentistry
- Oral and Maxillofacial Surgery
- Orthodontics
- Pediatric Dentistry
- Periodontics
- Preventive Dentistry
- Prosthodontics

## **Dental Materials**

Available as an M.S. or M.S.D. degree program or as a track offered in the Ph.D. in Dental Science degree program. Minor concentration: operative dentistry or prosthodontics (for M.S.D. degree); chemistry, material science engineering, or mechanical engineering (for M.S. degree). For details about the Ph.D. dental biomaterials track, see the Dental Biomaterials Track Core Curriculum section of this bulletin.

## **Core Competencies**

Graduates of the two-year postdoctoral program in dental materials will achieve core competencies in Materials Knowledge, Critical Thinking, and Effective Communication.

### *Materials Knowledge*

The graduate will be prepared to:

1. describe major classes of dental biomaterials used in clinical dentistry;
2. explain the differences in the chemical nature of the major classes of materials;
3. recognize the effects of chemical nature on the mechanical behavior of materials; and

4. describe the relationship between material characteristics and clinical performance of dental biomaterials.

### *Critical Thinking*

The graduate will be prepared to:

1. identify the physical and chemical principles of major material testing methods;
2. select and justify appropriate testing methods for major classes of dental biomaterials; and
3. formulate hypotheses and design the necessary experiments for a given material evaluation scenario.

### *Effective Communication*

The graduate will be prepared to:

1. present research methods and results correctly in oral and written reports;
2. provide evidence-based arguments on research findings in oral and written reports; and
3. provide suggestions on dental biomaterial selection based on current dental literature.

## **Dental Science**

Ph.D. degree program offering tracks in preventive dentistry, oral biology, and dental biomaterials. For details about the Ph.D. degree, see the Doctor of Philosophy (Ph.D.) Degree in Dental Science section of this bulletin.

### **Core Competencies**

The graduate of the Ph.D. program in dental science will be prepared to:

1. demonstrate an in-depth understanding of the biology of the oral cavity;
2. demonstrate the principles/mechanisms pertinent to human physiology and disease;
3. demonstrate competency in performing complex scientific literature searches;
4. write a detailed grant proposal;
5. express scientific material, including original research data, in both oral and written form;
6. demonstrate skills in critical thinking; and
7. plan and undertake independent research.

## **Endodontics**

M.S.D. degree program. Minor concentration: oral pathology.

**Core Competencies**

Students who successfully complete the two-year postdoctoral endodontics program will be able to achieve proficiency in the following areas of clinical science:

1. diagnosis, treatment planning, and prognosis;
2. evidenced-based nonsurgical and surgical treatment and retreatment;
3. outcome evaluation;
4. radiography and other diagnostic imaging technologies;
5. management of endodontic treatment of medically compromised patients;
6. emergency treatment for endodontic conditions;
7. management of patients with orofacial pain and anxiety;
8. preparation of space for intraradicular restorations and cores in endodontically treated teeth;
9. use of enhanced magnification technologies; and
10. communications with patients and health care professionals.

Students will also be prepared to achieve competency in a variety of endodontic techniques, including, for example: vital pulp management, endodontic management of traumatic dental injuries, and endodontic management of developing permanent teeth.

The postdoctoral endodontic program will also prepare the graduate to conduct all phases of a research project, including protocol development, review of literature, management of all stages of the study, and preparation of a manuscript for publication.

**General Practice Residency (GPR)**

One-year hospital-based postgraduate residency leading to a certificate. Residents provide services at two hospital-based clinics as well as a community health center. Rotations in oral and maxillofacial surgery, general anesthesia, family practice medicine, the Indiana University Cancer Center, and the Orofacial Pain Clinic. There are no tuition fees. For application forms, admission requirements, and other information about the GPR program, contact the School of Dentistry's Department of Oral Surgery and Hospital Dentistry (see Contact Information).

**Core Competencies**

The graduate of the general practice residency program will be prepared to:

1. function as a patient's primary care provider, treating or managing all aspects of oral health care using advanced dental treatment modalities as well as understanding the oral health needs of the community by engaging in community service and directing health promotion and disease prevention activities;
2. enhance and expand knowledge and skills in multidisciplinary comprehensive and emergency dental care, therefore providing a greater confidence in all phases of professional life;
3. plan and provide multidisciplinary oral health care for a wide variety of patients including patients with special needs and while utilizing the values of professional ethics, lifelong learning, patient-centered care, adaptability, and acceptance of cultural diversity in professional practice.
4. interact with other health care professionals in the hospitals, outpatient clinics, community health center environments, and within interdisciplinary health care teams, in order to facilitate the patients' total health care; and
5. participate in critical-thinking analysis, evidenced-based care, and technology-based information retrieval systems and apply this knowledge in treatment decisions and continuous quality improvement.

### **Maxillofacial Prosthetics**

M.S.D. program. Maxillofacial prosthetics is a track of the prosthodontics program (listed below) and is hospital-based.

#### **Core Competencies**

Students who successfully complete the four-year postdoctoral program in maxillofacial prosthetics will demonstrate competency in the following areas:

##### *Clinical Skills and Knowledge*

The successful graduate will be able to:

1. diagnose, treatment plan, and rehabilitate patients with defects of the maxilla, mandible, and facial structures using biocompatible substitutes;
2. be competent in a wide variety of treatment modalities used in the pre-prosthetic, prosthetic, and post-prosthetic management and treatment of patients with defects of the maxilla, mandible, and facial structures;
3. be competent in all aspects of the utilization of dental implants to restore intraoral and extraoral defects;
4. be competent in the prosthetic management of both radiation therapy and chemotherapy patients;
5. be competent in the laboratory procedures associated with the treatment of patients with defects of the

maxilla, mandible, and facial structures; and

6. describe the relationship between material characteristics and clinical performance of dental biomaterials.

### *Critical Thinking*

The successful graduate will be able to:

1. draw upon evidence-based research to select and justify appropriate treatment methods and biomaterials; and
2. formulate hypotheses and design the necessary experiments for a given procedure or material evaluation scenario.

### *Effective Communication*

The successful graduate will be able to:

1. present appropriate treatment plans to patients and referring dentists correctly in oral and written reports;
2. provide evidence-based agreements on research findings in oral and written reports; and
3. provide patient education and oral hygiene instructions to patients based upon clinical findings and upon current maxillofacial prosthetic literature.

## **Operative Dentistry**

M.S.D. degree program. Minor concentration: dental materials or preventive dentistry.

### **Core Competencies**

Graduates of the two-year postdoctoral program in operative dentistry will be prepared to:

1. manage caries risk patients based on Caries Management by Risk Assessment (CAMBRA);
2. discuss current direct and indirect dental restorative materials (gold, dental amalgam, ceramics, glass ionomer cement, and resin-matrix composite) including associated setting reactions, physical properties, and indications and contraindications for their clinical use;
3. demonstrate clinical proficiency when performing routine and advanced restorative procedures;
4. demonstrate a broad knowledge base of dental restorative materials and procedures;
5. demonstrate knowledge of current restorative dentistry scientific literature;
6. develop and present evidence-based restorative dentistry lectures; and
7. develop a research protocol and perform controlled dental research.

## **Oral and Maxillofacial Surgery**

Four-year hospital-based postgraduate residency leading to a certificate in the specialty. Tuition for the 2011-2012 academic year is \$303 per credit hour. Ancillary fees include 1) a General Fee of \$188.35 per semester (6 or fewer credit hours) or \$323.00 per semester (7 or more credit hours), and 2) a Repair and Rehabilitation (Building) Fee of \$6.66 per credit hour up to a maximum of \$79.92. For application forms, admission requirements, and other information about this program, contact the School of Dentistry's Department of Oral Surgery and Hospital Dentistry (see Contact Information).

### **Core Competencies**

Residents who complete the four-year oral and maxillofacial residency will be prepared to:

1. demonstrate proficiency in the core procedures, treatments, and surgical techniques available to oral and maxillofacial surgeons;
2. demonstrate familiarity with the full range of procedures, treatments, and surgical techniques available to oral and maxillofacial surgeons
3. demonstrate competency in the medical management of the surgical patient, including the ability to adequately perform a preoperative assessment;
4. demonstrate proficiency in the full range of anesthetic techniques available to oral and maxillofacial surgeons;
5. manage medical emergencies;
6. demonstrate familiarity with and an understanding of relevant literature as well as an ability to apply critical thinking to their reading; and
7. participate in scholarly activity, including the ability to develop a research project, write a manuscript, and give scientific and/or case study presentations.

## **Orthodontics**

M.S.D. degree program. Minor concentration: dental materials, oral pathology, dental education, or life sciences.

### **Core Competencies**

Students who successfully complete the two-year postdoctoral orthodontics program will demonstrate competency in the following areas:

*Clinical Skills and Knowledge*

The graduate will be able to:

1. correctly identify dental and skeletal problems and discrepancies that contribute to malocclusion;
2. correctly classify malocclusion;
3. be competent in selecting, placing, and activating appropriate appliances to treat malocclusion;
4. describe the relationship between material characteristics and clinical performance of orthodontic biomaterials;
5. explain the force load that appliances place on the dentition;
6. use patient management software and imaging software correctly;
7. identify the need and timing of interdisciplinary care; and
8. identify the effects of growth and development on malocclusion.

*Critical Thinking*

The graduate will be able to:

1. draw upon evidence-based research to select and justify appropriate treatment methods and biomaterials;  
and
2. formulate a hypothesis and design methods to solve a problem.

*Effective Communication*

The graduate will be able to:

1. effectively present appropriate treatment plans in written and oral formats to patients and referring dentists;
2. explain research results correctly in oral and written formats; and
3. provide appropriate patient education concerning the need for appliances, the care of appliances, and the effect of diet and hygiene on the dentition.

**Pediatric Dentistry**

M.S.D. degree program (hospital-based). Minor concentration: child psychology, dental materials, education, genetics, oral pathology, preventive dentistry, radiology, or speech pathology.

**Core Competencies**

Students who successfully complete the two-year postdoctoral pediatric dentistry program will demonstrate competency in the following areas:

*Clinical Skills and Knowledge*

The successful graduate will be able to:

1. diagnose and provide dental treatment to the child and adolescent patient;
2. manage the dental patient with the use of non-pharmacologic and pharmacologic management techniques; and
3. provide comprehensive management of the disabled patient.

*Critical Thinking*

The successful graduate will be able to:

1. draw upon evidence-based literature to select and justify appropriate treatment;
2. learn the dental care systems, both public and private sectors; and
3. successfully complete and present research relevant to the specialty of pediatric dentistry.

*Effective Communication*

The successful graduate will be able to:

1. present appropriate treatment plans to patients and family members;
2. present accurate oral and written reports to referring physicians and dentists;
3. draw upon the latest evidence-based literature to provide education and oral hygiene instructions to patients; and
4. interpret and present the findings of medical and laboratory reports.

**Periodontics**

M.S.D. degree program. Minor concentration: oral pathology.

**Core Competencies**

Students who successfully complete the three-year postdoctoral periodontics program will demonstrate



competency in the following areas:

#### *Clinical Skills and Knowledge*

The successful graduate will be able to:

1. diagnose and treat diseases affecting the periodontium;
2. demonstrate competency in a wide variety of surgical techniques used in treatment of periodontal diseases;
3. demonstrate competency in all aspects of surgical placement of dental implants including implant site development; and
4. describe the relationship between material characteristics and clinical performance of dental biomaterials.

#### *Critical Thinking*

The successful graduate will be able to:

1. draw upon evidence-based research to select and justify appropriate treatment methods and biomaterials; and
2. formulate hypotheses and design the necessary experiments for a given procedure or material evaluation scenario.

#### *Effective Communication*

The successful graduate will be able to:

1. present appropriate treatment plans to patients and referring dentists correctly in oral and written reports;
2. provide evidence-based arguments on research findings in oral and written reports; and
3. provide patient education and oral hygiene instructions to patients based on clinical findings and current periodontal literature.

#### *Research*

The postdoctoral periodontics program will also prepare the graduate to conduct all phases of a research project, including protocol development, review of literature, management of all stages of the study, and preparation of a manuscript for publication.

#### **Preventive Dentistry**

Available as an M.S. or M.S.D. degree program or as a track offered in the Ph.D. in Dental Science degree

program. Minor concentration: life sciences, operative dentistry, microbiology, or public health (for M.S. and M.S.D. degree). For details about the Ph.D. preventive dentistry track, see the Preventive Dentistry Track Core Curriculum section of this bulletin.

### **Core Competencies**

Graduates of the preventive dentistry program will be able to define terms and explain basic principles, concepts, and theories related to cariology. They will be prepared to:

1. describe the dental caries process in detail;
2. describe and contrast the interaction of the etiological factors associated with dental caries;
3. distinguish and assess the different presentations of dental caries;
4. recognize the epidemiology of dental caries;
5. discriminate populations at high risk for dental caries;
6. analyze the external and internal risk determinants of dental caries;
7. compare and contrast the different methodologies utilized for caries detection;
8. demonstrate diagnosis of dental caries;
9. assess caries risk status;
10. assess salivary flow measurements, buffering capacity, and management approaches for patients with low salivary flow;
11. compare and contrast some of the different strategies utilized for caries management;
12. discriminate the therapeutics used in caries management;
13. compare and contrast the use of sealants based on risk assessment, for individuals and populations;
14. support the values of prevention, evaluation, and reevaluation;
15. develop an oral health plan to be incorporated by a health professional team;
16. develop a community health plan;
17. summarize the basic principles on developing patient education plans;
18. critically review scientific methodology; and
19. recognize the different methodologies and techniques related to caries research.

### **Prosthodontics**

M.S.D. degree program. Minor concentration: dental materials.

### **Core Competencies**

Students who successfully complete the three-year postdoctoral program in prosthodontics will demonstrate competency in the following areas:

*Clinical Skills and Knowledge*

The successful graduate will be able to:

1. diagnose, treatment plan, and rehabilitate dentate, partially edentulous, and completely edentulous patients having clinical conditions associated with missing or deficient teeth and/or oral and maxillofacial tissues using biocompatible substitutes;
2. be competent in a wide variety of treatment modalities utilized in the treatment and/or rehabilitation of dentate, partially edentulous, and completely edentulous patients;
3. be competent in all aspects of the restoration of dental implants;
4. be competent in all aspects of occlusion and the prosthodontic management of TMD/TMJ disorders and/or orofacial pain;
5. be competent in the laboratory procedures associated with the treatment of complete edentulism, partial edentulism, and dentate patients; and
6. describe the relationship between material characteristics and clinical performance of dental biomaterials.

*Critical Thinking*

The successful graduate will be able to:

1. draw upon evidence-based research to select and justify appropriate treatment methods and biomaterials; and
2. formulate hypotheses and design the necessary experiments for a given procedure or material evaluation scenario.

*Effective Communication*

The successful graduate will be able to:

1. present appropriate treatment plans to patients and referring dentists in oral and written reports;
2. provide evidence-based agreements on research findings in oral and written reports; and
3. provide patient education and oral hygiene instructions to patients based upon clinical findings and upon current prosthodontic literature.

## Academic Bulletins

- [Indiana University](#)
- [IU Bloomington](#)

## PDF Version

[Click here for the PDF version.](#)

For questions/concerns regarding this bulletin, please contact the Office of the Registrar | 317-274-1519 | [Contact Us](#)

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# Exhibit B.

[NSU Home](#) / [College of Dental Medicine](#) / [operative-dentistry](#)

# Operative Dentistry

## About Program

The Department of Cariology and Restorative Dentistry offers a 24 to 36-month postdoctoral training program that is designed to fulfill the certification requirements of the American Board of Operative Dentistry. A Master of Science Degree (M.Sc.) and a Certificate in Operative Dentistry is awarded upon completion of the required core didactic courses and clinical competency program and a research project, including successful defense of a thesis. The program has been developed consistent with the objectives set forth in the ADEA (formerly AADS) Curriculum Guidelines for Postdoctoral Operative Dentistry (J Dent Educ 1993; 57: 832-836).

The Postdoctoral Operative Dentistry Program provides each graduate student an opportunity to enhance their knowledge in three main areas: research, clinical training and teaching. Participants pursue highly intensive clinical training while simultaneously following a rigorous academic curriculum which is research oriented. The following content outline embraces the essential components of the postgraduate program:

1. A Research Sciences Component

Research activities will extend the entire length of the program. Extensive research activities will begin with fundamental courses (biostatistics, research design and analysis, protocol writing, literature search engine, etc) followed by a requirement for writing a research report, publication of a paper and writing a formal thesis (and its defense before an examining committee). Students also will be exposed to preparation of abstracts of research papers, clinic tables and be encouraged to present their research project at scientific or educational meetings, as appropriate. The objective is to integrate more extensive research into the postgraduate education in preparation for an academic career in Operative Dentistry.

2. A Clinical Component

Program will be designed to offer comprehensive training in all aspects of esthetic and contemporary restorative dentistry. The curriculum includes topics such as treatment planning and smile design, ceramic veneers, ceramic posterior restorations, esthetic and metal ceramics, all ceramic systems, computer-generated ceramic restorations, composite (direct and indirect restorations), contemporary esthetic materials, periodontal esthetics, and esthetic considerations in implants. Operative Dentistry will be closely integrated with other post-graduate programs at College of Dental Medicine such as Periodontics, Prosthodontics, Orthodontics and Endodontics. Students will be presented with a broad range of clinical procedures

rather than any single method of treatment, preparing graduates to manage a diversity of cases and use varying treatment modalities with special emphasis on Esthetic Dentistry. Patients will be selected according to students' abilities. Students will be closely associated with faculty in all phases of clinical work to gain maximum experience. In addition, clinical seminars, case presentation and round table discussions will be offered throughout the entire program.

### 3. A Teaching Component

The program will provide graduate students the opportunity to gain experience in teaching. Students will be exposed to teaching experiences by participating in the undergraduate program. Opportunities to lecture, supervise preclinical and clinical activities, and prepare didactic material will be offered to students with the objective of helping to develop students' skills and experiences needed in an academic career. A senior faculty will assist, guide and evaluate the graduate student in preparation for a future academic career in Operative Dentistry.

Finally, the students will have the opportunity to take elective course work directed towards their area of special interest.

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# Operative Dentistry

## Curriculum - Core Courses

### course name / description

#### **Advanced Dental Radiology (CDM 5000)**

Consideration of hard and soft tissue craniofacial imaging modalities, including MRI, tomography, and digital imaging.

#### **Advanced Dental Materials (CDM 5001)**

Properties and clinical considerations in the use of today's restorative materials.

#### **Research Design (CDM 5002)**

Learn how to plan research projects, initiate the projects and effectively present the findings. Critical evaluation of the literature about the field of interest is going to be emphasized.

#### **Adv. Microbiology & Cell Biology (CDM 5003)**

Graduate training in microbiology, including virology, bacteriology, microbial genetics, and microbial pathogenesis.

#### **Advanced Oral Histology & Embryology (CDM 5004)**

Cytological and developmental considerations in embryological, fetal and neonatal human craniofacial growth and development.

#### **Fundamentals of Biostatistics (CDM 5006)**

Analysis of descriptive and inferential statistics as used in contemporary biomedical research, including electronic-based statistical programs.

#### **Ethics and Jurisprudence (CDM 5109)**

Reviews hallmarks of dental professional ethics, and aspects of the law that commonly impact on the daily practice of dentistry.

#### **Advanced Medical Physiology (CDM 5008)**

Detailed examination of cells and their transport, cardiac, pulmonary, acid base balance and fluids. Renal physiology, blood coagulation as well as blood factors will be addressed. Medical applications will be part of this course. Other topics will be integrated into the above.

#### **Adv. Head & Neck Anatomy Lecture Series (CDM 5103)**

Didactic and dissection based consideration of head and neck structure and function essential to advanced dental practice.

#### **Adv. Head & Neck Anatomy Lab Series (CDM 5104)**

Laboratory based consideration of head and neck structure and function essential to advanced dental practice.

#### **Adv. Systemic Oral Medicine & Pharmacology (CDM 5106)**

Expands on the predoctoral education regarding the topic of oral medicine. The seminars



will discuss current and classic literature to help refine the skills of students in interpreting a medical history and dental management of medically complex patients.

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# Operative Dentistry

## Curriculum - Departmental Courses

- Current Literature Review Seminar I, II, III and IV
- Classic Literature Review Seminar I, II, III and IV
- Advanced Treatment Planning Seminar I, II, III and IV
- Evidence Based Dentistry Course I, II, III and IV
- Research I, II, III and IV
- Thesis I, II, III and IV
- Implant Review Course
- Operative Dentistry Review Course
- Fixed Prosthodontics Review Course
- Cad Cam Restorations Course
- Advanced Cariology Course
- Academic Career in Operative Dentistry Course
- Effective Teaching, Learning, and Assessment Methodology Course
- Advanced Operative Dentistry Clinic I, II, III and IV

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# Operative Dentistry

## Admissions Requirements

The College of Dental Medicine selects students based on academic records, letters of recommendation, a minimum qualifying score of 80 (computer generated) on the Test of English as a Foreign Language (TOEFL), a translated GPA of the U.S. equivalent of 3.0, a personal interview, a psychomotor bench test, and a clinical case presentation.

The psychomotor bench test and clinical case presentation may include the following: typodont tooth preparation and restoration in amalgam, and typodont tooth preparation for a full metal crown. The clinical case presentation will consist of an oral presentation related to a clinical scenario. In order to participate in the benchtest, a qualifying score on the TOEFL Exam and the GPA, must be received by the Program Director prior to the date of the benchtest examination.

All materials needed for the above will be provided by NSU-CDM.

## Application Procedures

The Postgraduate Operative Program at NSU College of Dental Medicine participates in the Postdoctoral Application Support Service (PASS). All applications **MUST** be submitted through PASS. Applicants can access this material online at [portal.passweb.org](http://portal.passweb.org).

## Supplemental Application

In addition to the PASS application a supplemental [Nova Southeastern Application](#) must be completed by October 1st.

**All admissions material should be sent to the following address:**

Enrollment Processing Services  
Nova Southeastern University  
3301 College Avenue-P.O. Box 299000  
Fort Lauderdale, Fl 33314-9905

**Admissions questions should be directed to:**

Su-Ann Zarrett, M.S.W.  
Associate Director of Admissions

(954) 262-1108, 800-356-0026, ext. 21108  
Email: [zarrett@nova.edu](mailto:zarrett@nova.edu)

## International Applicants

Coursework taken at international institutions must be evaluated for U.S. institution equivalence. This coursework must be evaluated by one of the services listed below. You should contact one of the following:

### **World Education Services, Inc.**

P.O. Box 745  
Old Chelsea Station  
New York, NY 10113-0745  
(212) 966-6311  
[www.wes.org](http://www.wes.org)

### **Josef Silny & Associates, Inc.**

International Education Consultants  
7101 SW 102nd Avenue  
Miami, FL 33173  
Phone: (305) 273-1616  
Fax: (305) 273-1338  
[www.jsilny.com](http://www.jsilny.com)

### **Educational Credential Evaluators, Inc.**

P.O. Box 415070  
Milwaukee, WI 53203  
(414) 289-3400  
[www.ece.org](http://www.ece.org)

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# Operative Dentistry

## Faculty

- Dr. Audrey Levitt Galka, DDS – Chair, Section of Cariology and Restorative Dentistry; Assistant Division Chief, Primary Care
- Dr. Luana Oliveira Haas, DDS, MS, PhD - Assistant Professor, Program Director
- Dr. Steven Haas, DMD, JD – Dean of Clinics, Assistant Professor
- Dr. Amir Far, DDS – Assistant Professor
- Dr. Rafael G. Castellon, DDS, MS – Assistant Professor
- Dr. Peter Pugliese, DDS – Assistant Professor
- Dr. Carlos Villanueva, DDS, Assistant Professor
- Dr. Evren Kilinc, DDS, PhD – Associate Professor
- Dr. Mario Ramos, DDS, MS – Assistant Professor
- Dr. Jeff Thompson, PhD – Professor

## Adjunct Faculty

- Dr. Sam Sadati, DDS, FAGD, FAACD – Adjunct Professor
- Dr. Ana Maria Farias, DDS, MS – Adjunct Professor

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# Operative Dentistry

## Tuition and Fees

Click on the following link for a description of jobs related to this program:

29-1021- [Dentist, General](#)

### How much will this program cost me each year?

- Tuition: \$53,850,00 (For both Operative Dentistry and Master of Science Programs)
- Registration fee: \$50
- Student Service fee : \$750

### Operative Dentistry/Masters Program - 1st year

- Books: \$1,000
- Supplies : \$2,000
- Equipment: \$15,000
- Other : \$2,750

### Operative Dentistry/Masters Program - 2nd year

- Books: \$500
- Traveling: \$2,000
- Other : \$2,575

The program is designed to take 24 to 36 months.

The estimated total cost of the program is \$138,900 not including living expenses.

### What are my financing options to pay for the program?

In addition to any grants or scholarship aid for which they are eligible, students have taken loans to finance their education.

### Success


The first class of postdoctoral Operative/Master of Science residents is expected to graduate in July/2013.

### **Request / Apply Now**

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To receive more information about Nova Southeastern University or to apply now, use one of the options below.

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### **Admissions Process**

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# Exhibit C.

## Restorative Dentistry

**RICHARD G. STEVENSON III, DDS**  
**DIVISION CHAIR**

The Division of Restorative Dentistry is responsible for training predoctoral students to become competent in the management and treatment of dental caries. The Division is committed to developing dentists who are compassionate and committed to providing patients with excellent restorations in all areas of the discipline: esthetic dentistry, conservative cast gold restorations, implants, and direct restorations. The Division encompasses the disciplines of operative dentistry, fixed prosthodontics, clinical applications in dental morphology, esthetic dentistry, cast gold study club, and geriatric dentistry.



Our Division makes a commitment to:

- Provide instruction in all phases of the comprehensive, evidence-based predoctoral restorative dentistry our dental students.
- Provide a competency-based curriculum in clinical restorative dentistry to our 3rd- and 4th-year students.
- Encourage faculty to be dedicated and to keep them updated and calibrated with our curriculum, standards, and objectives.
- Encourage faculty to enroll in continuing education programs and seminars to enhance their knowledge in restorative dentistry.
- Keep abreast of the latest scientific literature in dentistry and educational advancements in dental education.
- Prepare students to pass their dental licensure evaluations.

### Teaching Programs

#### Predoctoral Program

As one of the school's largest divisions, we have a broad and extensive involvement in the predoctoral teaching programs. Dental student education is comprehensive and is integrated through a series of didactic, laboratory, clinical, and research courses addressing the following topics: operative dentistry, fixed prosthodontics, dental morphology and occlusion, esthetic dentistry, and geriatric dentistry.

Our curriculum is designed to provide students with an adequate number of clinical experiences to perform self-assessments. These evaluations are designed to build the students' confidence and knowledge in clinical restorative dentistry.

Upon completion of the requisite experiences and evaluations, students will be prepared to challenge a comprehensive examination. After successfully completing the comprehensive competency examination, students will be provided the opportunity to treat patients more independently in an Advanced Restorative Dentistry Clinic (ARDC).

#### Postgraduate Program

The Division offers a number of postgraduate programs:

- Advanced Education in General Dentistry
- Advanced Education in General Dentistry Preceptorship
- Esthetic Dentistry Preceptorship
- Restorative Dentistry Preceptorship

### Research

Restorative Division faculty are active in several areas of scientific inquiry with ongoing research projects in operative dentistry, fixed prosthodontics, dental morphology and occlusion, esthetic dentistry, and geriatric dentistry, as well as research to evaluate dental materials and clinical restorative dental techniques, geriatric dentistry, and curriculum evaluation in dental education.

### Patient Care

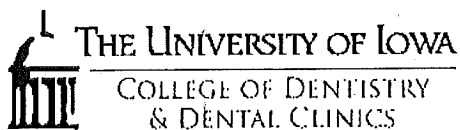
The Restorative Division provides patient care via several UCLA School of Dentistry clinics:

- The General Clinic

More than 80 faculty in the Division are engaged in clinical teaching at both the Predoctoral Dental Clinic in the Wilson-Jennings-Bloomfield UCLA Venice Dental Center. In the Predoctoral Dental Clinics, dental students treat a wide range of patients with differing needs under the close supervision of part and full time dental school faculty. At the Predoctoral Dental Clinics, students have the option of performing complex esthetic dentistry, and the restora-



# Exhibit D.



Education

D.D.S. Program

Prospective Students

Student Organizations

Graduate Programs

- Post Graduate Program Information
- Program Integrity

## Post Graduate Program Information

The College of Dentistry offers advanced education programs in all dental specialties recognized by the American Dental Association. All such programs are fully accredited by the Commission on Dental Education of the American Dental Association. In addition, the college offers several additional outstanding programs and residencies including study toward the M.S. or Ph.D. degrees.

### Overview of Graduate Specialty Programs

Graduate Specialty Program	Dead line	Number admitted	GRE or DAT	TOEFL	Foreign Applic. admitted	Dean's List	Recomm Letters	M.S.	Certificates	Stipend <sup>1</sup>
Dental Public Health	Oct 31	3-4	yes	yes	yes	no	yes	yes	no	\$0-22,000 <sup>2</sup>
Endodontics	Aug 15	1-3	no	yes	yes	no	yes	yes	yes	---
Geriatrics & Special Needs	Mar 1	1-2	no	yes		no	yes	no	yes	\$11,000-\$22,000 <sup>3</sup>
Operative Dentistry	Oct 1	3	no	yes	yes	no	yes	yes	yes	\$2,000 <sup>3</sup>
Oral & Maxillofacial Surgery	Sept 1	2-3	no	no	no	yes	yes	no	yes	\$39,200-\$42,900
Oral Pathology, Radiology & Medicine	Sept 1	1-2	yes*	yes	yes	no	yes	yes	yes	\$15,000
Orthodontics	Sept 1	5	yes	yes	yes	yes	yes	yes	yes	\$9,000 <sup>1</sup>
Pediatric Dentistry	Oct 1	4	no	yes	no	yes	yes	no	yes	\$20,000
Periodontics	Aug 1	2-3	no	yes	yes	yes	yes	yes	yes	\$11,400 <sup>1</sup>
Prosthodontics	Sept 1	3	no	yes	yes	yes	yes	yes	yes	\$9,000 <sup>1, 2</sup>
General Practice Residency	Nov 1	5	no	no	no	yes	yes	no	yes	\$49,000
Oral Science	Dec 1	1	no	yes	yes	no	yes	yes	no	---

\* GRE only

<sup>1</sup> \$11,400 fellowships plus benefits

<sup>2</sup> Stipend support is determined yearly and is based on available funding, contingent on future training grant funding.

<sup>3</sup> Stipend support is determined yearly and is based on available funding.

For a listing of courses offered, see the UI General Course Catalog. For other information, please contact the graduate specialty program director.

The University of Iowa does not discriminate in employment or in its educational programs and activities on the basis of race, national origin, color, religion, sex, age, disability, or veteran status. The University also affirms its commitment to providing equal opportunities and equal access to University facilities without reference to affectional or associational preference. For additional information on nondiscrimination policies, contact the Coordinator of Title IX, Section 504, and the ADA in the Office of Affirmative Action, telephone (319) 335-0705, 202 Jessup Hall, The University of Iowa, Iowa City, Iowa 55542-1316.



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# Exhibit E.

<u>Institution Name</u>	<u>Accreditation Type</u>	<u>Agency Name</u>	<u>Program Name</u>	<u>Accreditation Status</u>
University of California - Los Angeles	Institutional	Western Association of Schools and Colleges, Accrediting Commission for Senior Colleges and Universities		Accredited
University of California - Los Angeles	Specialized	American Dental Association, Commission on Dental Accreditation	Endodontics	Accredited
University of California - Los Angeles	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Radiology	Accredited
University of California - Los Angeles	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Surgery	Accredited
University of California - Los Angeles	Specialized	American Dental Association, Commission on Dental Accreditation	Orthodontics & Dentofacial Orthodontics	Accredited
University of California - Los Angeles	Specialized	American Dental Association, Commission on Dental Accreditation	Orthodontics/Pediatric Dentistry	Accredited
University of California - Los Angeles	Specialized	American Dental Association, Commission on Dental Accreditation	Pediatric Dentistry	Accredited
University of California - Los Angeles	Specialized	American Dental Association, Commission on Dental Accreditation	Periodontics	Accredited
University of California - Los Angeles	Specialized	American Dental Association, Commission on Dental Accreditation	Prosthodontics	Accredited
Nova Southeastern University	Institutional	Southern Association of Colleges and Schools, Commission on Colleges		Accredited
Nova Southeastern University	Specialized	American Dental Association, Commission on Dental Accreditation	Endodontics	Accredited
Nova Southeastern University	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Surgery	Accredited
Nova Southeastern University	Specialized	American Dental Association, Commission on Dental Accreditation	Orthodontics & Dentofacial Orthodontics	Accredited
Nova Southeastern University	Specialized	American Dental Association, Commission on Dental Accreditation	Pediatric Dentistry	Accredited
Nova Southeastern University	Specialized	American Dental Association, Commission on Dental Accreditation	Periodontics	Accredited
Nova Southeastern University	Specialized	American Dental Association, Commission on Dental Accreditation	Prosthodontics	Accredited
Indiana University-Purdue University Indianapolis	Institutional	North Central Association of Colleges and Schools, The Higher Learning Commission		Accredited
Indiana University-Purdue University Indianapolis	Specialized	American Dental Association, Commission on Dental Accreditation	Endodontics	Accredited
Indiana University-Purdue University Indianapolis	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Surgery	Accredited
Indiana University-Purdue University Indianapolis	Specialized	American Dental Association, Commission on Dental Accreditation	Orthodontics & Dentofacial Orthodontics	Accredited
Indiana University-Purdue University Indianapolis	Specialized	American Dental Association, Commission on Dental Accreditation	Pediatric Dentistry	Accredited
Indiana University-Purdue University Indianapolis	Specialized	American Dental Association, Commission on Dental Accreditation	Periodontics	Accredited
Indiana University-Purdue University Indianapolis	Specialized	American Dental Association, Commission on Dental Accreditation	Prosthodontics	Accredited
University of Iowa	Institutional	North Central Association of Colleges and Schools, The Higher Learning Commission		Accredited
University of Iowa	Specialized	American Dental Association, Commission on Dental Accreditation	Dental Public Health	Accredited
University of Iowa	Specialized	American Dental Association, Commission on Dental Accreditation	Endodontics	Accredited
University of Iowa	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Pathology	Accredited
University of Iowa	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Radiology	Accredited
University of Iowa	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Surgery	Accredited
University of Iowa	Specialized	American Dental Association, Commission on Dental Accreditation	Orthodontics & Dentofacial Orthodontics	Accredited
University of Iowa	Specialized	American Dental Association, Commission on Dental Accreditation	Pediatric Dentistry	Accredited
University of Iowa	Specialized	American Dental Association, Commission on Dental Accreditation	Periodontics	Accredited
University of Iowa	Specialized	American Dental Association, Commission on Dental Accreditation	Prosthodontics	Accredited
Boston University	Institutional	New England Association of Schools and Colleges, Commission on Institutions of Higher Education		Accredited
Boston University	Specialized	American Dental Association, Commission on Dental Accreditation	Dental Public Health	Accredited
Boston University	Specialized	American Dental Association, Commission on Dental Accreditation	Endodontics	Accredited
Boston University	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Pathology	Accredited
Boston University	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Surgery	Accredited
Boston University	Specialized	American Dental Association, Commission on Dental Accreditation	Orthodontics & Dentofacial Orthodontics	Accredited
Boston University	Specialized	American Dental Association, Commission on Dental Accreditation	Pediatric Dentistry	Accredited
Boston University	Specialized	American Dental Association, Commission on Dental Accreditation	Periodontics	Accredited
Boston University	Specialized	American Dental Association, Commission on Dental Accreditation	Prosthodontics	Accredited

University of Michigan - Ann Arbor	Institutional	North Central Association of Colleges and Schools, The Higher Learning Commission		Accredited
University of Michigan - Ann Arbor	Internship/Reside	American Dental Association, Commission on Dental Accreditation	Post Doctoral - Advanced dent	Accredited
University of Michigan - Ann Arbor	Internship/Reside	American Dental Association, Commission on Dental Accreditation	Predoctoral	Accredited
University of Michigan - Ann Arbor	Specialized	American Dental Association, Commission on Dental Accreditation	Dental Hygiene (DH)	Accredited
University of Michigan - Ann Arbor	Specialized	American Dental Association, Commission on Dental Accreditation	Dental Public Health	Accredited
University of Michigan - Ann Arbor	Specialized	American Dental Association, Commission on Dental Accreditation	Endodontics	Accredited
University of Michigan - Ann Arbor	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Surgery	Accredited
University of Michigan - Ann Arbor	Specialized	American Dental Association, Commission on Dental Accreditation	Orthodontics & Dentofacial Or	Accredited
University of Michigan - Ann Arbor	Specialized	American Dental Association, Commission on Dental Accreditation	Pediatric Dentistry	Accredited
University of Michigan - Ann Arbor	Specialized	American Dental Association, Commission on Dental Accreditation	Periodontics	Accredited
University of Michigan - Ann Arbor	Specialized	American Dental Association, Commission on Dental Accreditation	Prosthodontics	Accredited
University of North Carolina at Chapel Hill	Institutional	Southern Association of Colleges and Schools, Commission on Colleges		Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Dental Assisting (DA)	Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Dental Hygiene (DH)	Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Endodontics	Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Pathology	Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Radiology	Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Oral and Maxillofacial Surgery	Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Orthodontics & Dentofacial Or	Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Pediatric Dentistry	Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Periodontics	Accredited
University of North Carolina at Chapel Hill	Specialized	American Dental Association, Commission on Dental Accreditation	Prosthodontics	Accredited

# Tab 5

# Exhibit A.

**Table 44: Total Annual Estimates of Procedures Completed by Private Practitioners by Dental Specialty, 2005-06**

<i>CDT-2005</i>	<i>Procedure Category</i>	<i>All Private Practitioners</i>	<i>General Practitioners</i>	<i>Oral and Maxillofacial Surgeons</i>	<i>Endodontists</i>	<i>Orthodontic and Dentofacial Orthopedists</i>	<i>Pediatric Dentists</i>	<i>Periodontists</i>	<i>Prosthodontists</i>
D0100-D0999	Diagnostic	1,086,980,340	965,986,080	14,531,630	15,002,740	19,248,330	43,677,360	17,969,850	10,564,350
D1000-D1999	Preventive	341,928,680	300,155,400	0	0	3,867,090	33,368,860	2,226,630	2,310,700
D2000-D2999	Restorative	233,436,460	220,281,060	0	405,990	0	10,735,510	0	2,013,900
D3000-D3999	Endodontics	22,315,460	15,213,370	213,190	5,672,500	0	1,174,990	18,800	22,610
D4000-D4900	Periodontics	33,504,500	22,460,620	162,120	0	0	0	10,881,760	0
D5000-D5899	Prosthodontics (Removable)	15,459,350	13,970,380	0	0	0	0	0	1,488,970
D5900-D5999	Maxillofacial Prosthetics	100,110	0	60,430	0	0	0	0	39,680
D6000-D6199	Implant Services	5,505,720	3,103,930	1,014,270	1,430	0	0	765,270	620,820
D6200-D6999	Prosthodontics (Fixed)	24,506,810	23,374,570	0	0	0	0	0	1,132,240
D7000-D7999	Oral and Maxillofacial Surgery	57,937,740	29,518,850	24,861,150	0	197,520	2,451,900	908,320	0
D8000-D8999	Orthodontics	72,147,860	3,129,640	0	0	67,458,180	1,560,040	0	0
D9000-D9999	Adjunctive General Services	49,215,640	32,240,360	7,676,650	1,968,580	2,096,730	4,054,180	844,040	335,100
	<b>Total</b>	<b>1,943,038,670</b>	<b>1,629,434,260</b>	<b>48,519,440</b>	<b>23,051,240</b>	<b>92,867,850</b>	<b>97,022,840</b>	<b>33,614,670</b>	<b>18,528,370</b>

Source: Calculated from American Dental Association, Survey Center, 2005-06 Survey of Dental Services Rendered and Distribution of Dentists in the United States by Region and State, 2005.

# Exhibit B.

# Exhibit C.



## Most comprehensive review of dental therapists worldwide shows they provide effective dental care to millions of children

Suggests greater role for mid-level dental providers in the United States

April 10, 2012

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BATTLE CREEK, Mich. – An extensive review of the literature documenting care provided by dental therapists and clinical outcomes worldwide indicates that they offer safe, effective dental care to children. Released today by the W.K. Kellogg Foundation, the study reviews more than 1,100 reports regarding dental therapists and their work in various countries.

The report documents evidence that dental therapists can effectively expand access to dental care, especially for children, and that the care they provide is technically competent, safe and effective. In addition, the review also showed that the public values the role of dental therapists and there is strong patient and parental support for their work.

In the United States, dental therapists practice in Alaska and Minnesota, but there is movement in other states to use these providers to expand access to needed dental care. Numerous federal reports, the Institute of Medicine, states, tribes and foundations, such as the Kellogg Foundation and the Pew Charitable Trusts, have recommended exploring midlevel providers, such as dental therapists, as a way to solve the current dental access crisis.

The report reviews the history and practice of dental therapists in 54 countries ranging from the United States to the United Kingdom to Malaysia. Five of the top six countries on the Human Development Index -- the United States, Canada, New Zealand, Australia and the Netherlands -- employ dental therapists in their oral health workforce.

The report found no evidence to indicate that the public perspective of dental therapists in any country was other than positive, according to David Nash, DMD, MS, EdD, the William R. Willard Professor of Dental Education, Professor of Pediatric Dentistry at the College of Dentistry at the University of Kentucky, and the principal author. Nash is a member of the American Dental Association and of the American Academy of Pediatric Dentistry.

"There is no question that dental therapists provide care for children that is high quality and safe. None of the 1,100 documents reviewed found any evidence of compromises to children's safety or quality of care," said Nash. "Given these findings, the profession of dentistry should support adding dental therapists to the oral health care team."

The report, *A Review of the Global Literature on Dental Therapists: In the Context of the Movement to Add Dental Therapists to the Oral Health Workforce in the United States*, comes at a time when the United States is struggling to expand access to dental care, especially for children. Tooth decay is the number one chronic

illness for children, more prevalent than asthma. And close to 50 million people in the United States live in areas where they cannot gain easy access to a dentist.

In 2014, as part of the Affordable Care Act, an additional 5.3 million children will be entitled to dental coverage under Medicaid, according to the Pew Charitable Trusts. Yet few dentists treat Medicaid patients now and there have been wide reports of children on Medicaid waiting months to get care.

"Barriers to dental care have created significant oral health inequities for children in this country," said Sterling K. Speirn, president and CEO of the W.K. Kellogg Foundation. "And this greatly impacts their overall health and well-being. No child should have to suffer the pain of a toothache or an abscess. We need to strongly consider expanding the number of dental professionals who can offer routine, preventive care to children in their own communities."

Historically, the focus of dental therapists has been on the prevention and treatment of dental disease in children. In many countries, such as New Zealand and Australia, dental therapists provide their services through the school system. Dental therapists typically provide routine care that includes cleanings, filling cavities, preventive care and extractions of children's teeth. While the scope of practice has typically been restricted to children, a few countries are beginning to permit dental therapists to treat adults as well.

According to the report, countries using dental therapists have been effective in improving access and the care provided to children. In New Zealand, 96 percent of school age children, and 49 percent of preschool children are enrolled in the school dental service and cared for by dental therapists. In Malaysia, 96 percent of elementary school children and 67 percent of secondary school children are enrolled in the school dental service staffed by dental therapists. And in Hong Kong, 95 percent of children have access to dental care in school clinics.

The survey also indicated that dental therapist-led school dental services are cost-effective. School dental programs in New Zealand and Australia cost less than private fee-for-service systems. The average cost of school-based dental care in New Zealand in 2010-11 was \$99 per child, which included all preventive care and treatment of cavities. In the private sector, the cost would be similar for just one examination visit, and a simple restoration would cost an additional \$99.

#### About the W.K. Kellogg Foundation

The W.K. Kellogg Foundation (WKKF), founded in 1930 as an independent, private foundation, is among the largest philanthropic foundations in the United States. Guided by the belief that all children should have an equal opportunity to thrive, WKKF works with communities to create conditions for vulnerable children so they can realize their full potential in school, work and life.

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## **“OPERATIVE DENTISTRY: The Vanishing Discipline**

When someone asks my occupation, I generally reply that I am a dentist and a member of a dental school faculty. If additional interest is expressed, I may say that I teach operative dentistry, knowing that further explanation will be necessary since laymen often associate the term with dental surgery. This is an interesting phenomenon since "operative dentistry" is so clearly defined in my own mind and is, in fact, the very essence of my professional life. Unfortunately, this lack of understanding of the nature and importance of operative dentistry seems to be pervasive at all levels of dental education, organized dentistry and the practicing profession. I believe the reasons for this are many and merit close scrutinization, consideration and, hopefully, correction.

Those responsible for teaching the knowledge and skills necessary for the various disciplines within dentistry should have training and education beyond the basic dental degree. This usually requires that these educators focus their activities in a specified area to allow them to present information at a highly informed and current level. The dental specialties are very conscious of this and know that it has a direct influence on the capability of their residents. It would be rare for a school of dentistry to assign general practitioners the responsibility for the primary training of dental students in endodontics, periodontics or oral surgery, but many voices suggest this as the ideal for operative dentistry training.

As a discipline, operative dentistry has suffered over the years because we have not been as militant in stressing its importance in dental practice. This has resulted in limited availability of advanced training in operative dentistry, and the growth of an attitude that such training is not really necessary and that all dental school graduates and general practitioners are perfectly capable of teaching all restorative clinical procedures. This is akin to suggesting that a recreational snow skier, such as myself, can offer the same level of instructional expertise as a professionally trained ski instructor. In my opinion, the traditional values that accompany advanced education in all disciplines certainly apply to training and education in operative dentistry. If there are logistical problems for faculty in satisfying the need for advanced education, an excellent alternative in securing credentials beyond the minimum is the American Board of Operative Dentistry certification program. Preparation for the three-part examination (didactic, clinical performance and case presentations) encourages focused study on the part of the candidate and, upon completion, offers tangible evidence of advanced knowledge and skills.

Another area experiencing decline within our discipline is the interaction of operative dentistry teachers within and between educational institutions and other dental specialties. Historically, the importance of such interaction received strong emphasis with the formation of ACORDE (A Consortium on Restorative Dentistry Education) in the early 1970s. This project was funded by the US Department of Health, Education and Welfare and allowed all dental schools in the country to work together on a common project -- developing expanded function auxiliaries. ACORDE influenced the scope of operative procedures and instrumentation for the duration of its existence. As the project concluded, the value of its communication format gained recognition and resulted in the formation of the Conference of Operative Dentistry Educators (CODE). Initially, the combination of sectional meetings and the distribution of a composite report to all North American dental schools was extremely positive in promoting

discussions and consensus on the myriad aspects of teaching operative dentistry. Unfortunately, busy schedules and the pressures of academic life resulted in a decline in active participation by all schools and faculty over the years. Even the activity of the Operative Dentistry Section at the annual meeting of the American Dental Education Association has been cut from more than one-half day to two hours or less. This certainly makes it more challenging for operative faculty to justify the expense and time associated with attending this meeting.

What are some of the results of the problems discussed above? Anecdotal reports from dental faculty, various post-graduate programs, the Dental Services sections of the branches of our Armed Forces and some Dental Board Examiners would suggest that the overall clinical ability of recent graduates is not at the levels we enjoyed during the '60s, '70s and early '80s. This is significantly problematic since the intelligence, educational experience and capability of today's dental student is certainly equal to if not better than that of earlier graduates. One must wonder whether the current trends in dental education are not contributing factors, including:

- the lack of emphasis on advanced training when hiring operative faculty.
- the fostered perception that since dental school is preparing general practitioners that generalists should supervise the bulk of the students' clinical training.
- the de-emphasis on the importance of operative dentistry as a discipline mirrored in the creation of large restorative dentistry or general dentistry departments with, at most, an operative section or division.
- the overall reduction in both laboratory and clinical curricular time for operative dentistry with, perhaps, an overemphasis on cosmetic procedures and tooth-colored materials to the exclusion of more traditional and proven techniques.
- more and more reliance on continuing education programs that are industry driven to not only supplement dental education but also to provide needed funding for the dental school.

It seems obvious that in order to maintain a state of health, dental schools should encourage the maximum educational output of all the disciplines in dentistry.

Unfortunately, this does not seem to be the direction operative dentistry is heading. Operative dentistry as a discipline appears to be an endangered species and may disappear if steps are not taken now. Certainly, the Academy of Operative Dentistry should be a prime mover in this task, along with CODE and the Operative Dentistry Section of the ADEA. It is time for these groups to stop worrying about being perceived as "interfering" with dental education and take aggressive, positive action to promote operative dentistry and return it to the position of influence it deserves."

Lund, Melvin R. Editorial, Operative Dentistry, Volume 26, Number 6. Nov-Dec, 2001.

# Exhibit D.

CODE OF ETHICS  
FOR MEMBERS OF  
THE AMERICAN BOARD OF OPERATIVE DENTISTRY, INC.

The members of the American Board of Operative Dentistry, Inc. shall be in compliance with the Code of Ethics of the American Dental Association.

Members may announce their Board status on a one-time-only basis in their local newspaper(s), and to their patients in a professionally correct manner. Board status may not be used in any form of marketing endeavor.

[ADOPTED – February 11, 1987]

It is within ethical practice to use the ABOD designation and/or insignia on letterheads, signs and business cards as long as the member is in good standing with the ABOD.

[ADOPTED – February 18, 2004]