

Earn up to **29.5 CE Credit Hours**

**2014**

**AAE ANNUAL SESSION**  
striving for perfection



**WASHINGTON, D.C.**

Gaylord National Resort and Convention Center  
National Harbor, Md.

**April 30 – May 3**

# Invitation

## Dear Colleagues,

As endodontic specialists, we aspire to provide the highest quality of care to our patients. The 2014 AAE Annual Session – *Striving for Perfection* – celebrates and supports your efforts to stay at the top of our field. Against the backdrop of historic Washington D.C., this year's meeting focuses on the topics, technologies and treatments that will keep you on the cutting edge of endodontics.

We've invited James Bradley, author of the *New York Times* bestseller *Flags of Our Fathers*, to welcome attendees to the nation's capital with a President's Breakfast Keynote Address the first morning of our meeting. The Wednesday General Session will present an inspiring lineup of world-renowned speakers and topics in a series of 30- to 45-minutes lectures throughout that same afternoon. We invite you to start your Annual Session with this convenient and compelling introduction to our educational tracks.

Whether you are a clinician, staff member, educator, student or corporate representative, this meeting will deliver exactly what you need to grow personally and professionally. Workshops aligning with AAE's high educational standards will continue to be available throughout the meeting, while a new Corporate Workshop and Lecture series will also be presented. Plan now to learn from your peers in one of our many Lunch-n-Learns on clinical, practice management and endodontic education topics, and spend quality time in our Exhibit Hall Wednesday through Friday for lunches, happy hours and high-value business transactions. We promise you will not be disappointed with the depth and breadth of this year's meeting!

With the National Harbor waterfront and capital area offering diverse cultural attractions and impressive dining opportunities, our recreational program has been streamlined to one remarkable off-site event this year. *Celebrate D.C.!* at The Newseum Thursday evening will fascinate you and your entire family with unforgettable exhibits and catering by award-winning chef Wolfgang Puck, leaving ample time for alumni functions on Wednesday and Friday nights. Convenient transportation from the Gaylord Resort to D.C. attractions and treasured historical landmarks will be available throughout your stay to help you make the most of your free time.

The dental profession continues to rapidly change, and no one can afford to fall behind. Join us as we *Strive for Perfection* together this April!



*Gary R. Hartwell*

Gary R. Hartwell, D.D.S., M.S.  
President



*Mark A. Schachman*

Mark A. Schachman, D.M.D.  
General Chair, Annual Session  
Planning Committee

# Table of Contents

Schedule At-A-Glance.....	4-5
Educational Tracks.....	6-8
AAE Workshops.....	9
Corporate Lectures and Workshops.....	9
Educational Sessions.....	10-29
Exhibits.....	30
Sponsors.....	31
Special Events.....	32-35
Lunch-n-Learns.....	34
Alliance/Spouse Welcome and Activities.....	36
Registration Information.....	37
Hotel and Travel.....	38
Speaker Index.....	39

# Keep Connected

## Download the Annual Session App – Available February

Want a jump start on your Annual Session experience? Use this mobile app to start planning **YOUR** activities.

### Top features include:

**Schedule**—build your own meeting agenda from the full list of sessions and events

**Contacts**—create your “digital business card” to connect with other attendees

**Exhibitors and Sponsors**—find out who is coming from 100+ dental product and service companies

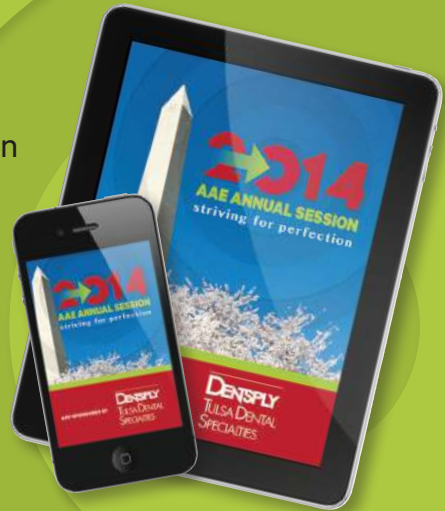
**CE Credit**—easy access to submit your verification numbers

**Maps, Social Media, Notes and More**—get around with a local map and floor plans of the hotel and convention center

**Choose one of the following options to download the app to your iPhone, iPad or Android device.**

1. Scan the QR code to the right
2. Visit your mobile device app store or market and search for the term “2014 AAE Annual Session”
3. Access <https://crowd.cc/aae2014> with your smartphone or tablet’s browser

*\*Please Note: App features will vary slightly between each device/platform*



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# Schedule At-A-Glance

## Tuesday, April 29

### 2 – 8 p.m.

Registration and Information  
Exhibit Hall Foyer

### 6 – 7 p.m.

Leadership Reception  
Lower Atrium

## Wednesday, April 30

### 6:30 a.m. – 5 p.m.

Registration and Information  
Exhibit Hall Foyer

### 7 – 10 a.m.

President's Breakfast and Keynote Speaker  
7 – 8 a.m. Continental Breakfast  
8 – 10 a.m. Program  
Potomac Ballroom

### 10 a.m. – 6 p.m.

Exhibits Open  
Exhibit Halls ABC

### 10:15 – 11 a.m.

District Caucuses  
District I – National Harbor 2  
District II – National Harbor 3  
District III – National Harbor 4  
District IV – National Harbor 5  
District V – National Harbor 10  
District VI – National Harbor 11  
District VII – National Harbor 12

### 10:30 a.m. – 12:15 p.m.

Oral Research Presentations  
2nd Level

### 11 a.m. – noon

Affiliate Leadership Meeting  
National Harbor 2

### 12:30 – 5 p.m.

General Session  
Potomac Ballroom

### 1:30 – 3 p.m.

Educational Sessions and Oral Research  
Presentations  
2nd Level

### 2 – 4 p.m.

Crab Cake Making Demonstration  
Chesapeake 6

### 3 – 3:30 p.m.

Break

### 3:30 – 5 p.m.

Educational Sessions and Oral Research  
Presentations  
2nd Level

### 5 – 6 p.m.

Exhibit Hall Happy Hour  
Exhibit Halls ABC

### 6 – 7 p.m.

International Reception  
Potomac Ballroom Foyer

### Professional Staff Reception

Maryland Ballroom Foyer

## Thursday, May 1

### 6 – 7 a.m.

5K Fun Run and Walk  
Departs from Lower Atrium

### 7 a.m. – 5 p.m.

Registration and Information  
Exhibit Hall Foyer

### 8 a.m. – 5 p.m.

Exhibits Open  
Exhibit Halls ABC

### 8 – 9:30 a.m.

Educational Sessions and Oral Research  
Presentations  
2nd and 3rd Level

### 8 – 11 a.m.

Poster Research and Table Clinics  
Exhibit Halls ABC

### 9:30 – 10 a.m.

Break

### 10 – 11:30 a.m.

Educational Sessions and Oral Research  
Presentations  
2nd and 3rd Level

### 11:45 a.m. – 1:15 p.m.

Louis I. Grossman Luncheon  
Cherry Blossom Ballroom

### 11:30 a.m. – 1 p.m.

Exhibit Hall Lunch  
Exhibit Halls ABC

Poster Research Presentations and Table  
Clinics  
Exhibit Halls ABC

### 1:30 – 3 p.m.

Educational Sessions and Oral Research  
Presentations  
2nd and 3rd Levels





## Thursday, May 1 (continued)

**3 – 3:30 p.m.**

Break

**3:30 – 5 p.m.**

Educational Sessions and Oral Research  
Presentations

2nd and 3rd Level

**6 – 10:30 p.m.**

*Celebrate D.C.!*

*The Newseum*

## Friday, May 2

**7:30 a.m. – 5 p.m.**

Registration and Information  
*Exhibit Hall Foyer*

**8:30 – 10 a.m.**

General Assembly Breakfast  
*Potomac Ballroom*

**9 a.m. – 6 p.m.**

Exhibits Open  
*Exhibit Halls ABC*

**10 – 10:30 a.m.**

Break

**10:30 a.m. – noon**

Educational Sessions  
2nd and 3rd Level

Wine Pairing Demystified

*Maryland D*

**Noon – 1:30 p.m.**

Lunch Break

**12:15 – 1:15 p.m.**

Lunch-n-Learn: Endodontic Predoctoral  
Curriculum – Striving for Standardization  
*Maryland D*

Lunch-n-Learn: Clinical

*Exhibit Halls ABC*

Lunch-n-Learn: Practice Management

*Exhibit Halls ABC*

**1:30 – 3 p.m.**

Educational Sessions  
2nd and 3rd Levels

**3:30 – 5 p.m.**

Resident and New Practitioner Career Fair  
*Maryland D*

**5 – 6 p.m.**

Exhibit Hall Happy Hour and Foundation  
Live Auction  
*Exhibit Halls ABC*

**5 – 6:30 p.m.**

Resident Reception  
*Maryland Ballroom C*

**7 – 8 p.m.**

AAE Foundation Leadership Donor Reception  
*Lower Atrium*

## Saturday, May 3

**8 a.m. – 5 p.m.**

Registration and Information  
*Exhibit Hall Foyer*

**8:30 – 10 a.m.**

Educational Sessions  
2nd and 3rd Levels

**10 – 10:15 a.m.**

Break

**10:15 – 11:45 a.m.**

Educational Sessions  
2nd and 3rd Levels

**Noon – 1:30 p.m.**

Edgar D. Coolidge Luncheon  
*Potomac Ballroom*

**1:45 – 3:15 p.m.**

Educational Sessions  
2nd and 3rd Levels

**3:15 – 3:30 p.m.**

Break

**3:30 – 5 p.m.**

Educational Sessions  
2nd and 3rd Levels

All events will take place at the Gaylord National Resort and Convention Center unless otherwise noted.

Shaded items indicate that a ticket or invitation is required.

Oral and Poster Research Presentations and Table Clinics schedule will be noted in the *On-Site Meeting Guide* and mobile app.

## WEDNESDAY GENERAL SESSION (see p. 10)

- A Skeptic's Guide to Clinical Practice
- NIDCR/NIH: Research Advancing Oral Health
- Present State of Craniofacial Regenerative Concepts
- An Overview of Regenerative Endodontics
- Endodontic Microsurgery: Integral and Important Part of the Endodontic Practice
- Saving Teeth: Why This Matters to Patients and Society

### Art and Science of Nonsurgical Endodontics (NS)

*Sponsored by Carestream Dental*

**Track Organizers:** Avina K. Paranjpe, B.D.S., M.S., M.S.D., Ph.D.

Ove A. Peters, D.M.D., M.S., Ph.D.

- NS-1:** Toward a Cell Biology of Pain
- NS-2:** What Can a Practicing Endodontist Learn from Clinical Studies?
- NS-3:** Tooth Fracture Classification: Longitudinal Tooth Fractures Detected!
- NS-4:** Future of Microbiologic Studies
- NS-5:** The Cytokine Network: What Does an Endodontist Need to Know?
- NS-6:** Managing Pre- and Postoperative Pain During Endodontic Procedure: A Changing Landscape
- NS-7:** Minimally Invasive Endodontics: Can It Work?
- NS-8:** Dentin – A Beautiful Partnership with Pulp!
- NS-9:** Oral Health, Nutrition and Cardiometabolic Conditions
- NS-10:** Diagnostic Processes and the Reliability of Pulp Testing
- NS-11:** Nonendodontic Pain: Recognition and Its Management
- NS-12:** CBCT Technology Development and Its Impact on Current Treatment Planning
- NS-13:** On the Hardness and Fracture Resistance of Dentin
- NS-14:** Common Reasons for False-Positive Conclusions in Randomized Studies
- NS-15:** The Oral and Systemic Health Interaction
- NS-16:** Influence of Root Canal Procedures on the Root Canal Wall
- NS-17:** Outcomes of Endodontic Therapy in General Practice: A PBRN Study
- NS-18:** Retreatment Workshop
- NS-19:** CBCT: Is It Essential for the Diagnosis of Apical Pathosis?
- NS-20:** Fluid Dynamics Inside Root Canals
- NS-21:** The Ins and Outs of Nickel-Titanium Metallurgy and Mechanical Properties
- NS-22:** Changing Trends in Nonsurgical Endodontics: What Are We Teaching the Next Generation?
- NS-23:** CBCT Workshop

**NS-24:** NiTi Metallurgy: Clinically Relevant?

**NS-25:** What is Relevant to Root Canal Disinfection

**NS-26:** Endodontic Success: What Does Research Tell Us?

**NS-27:** Dental Pulp in Health and Disease

**NS-28:** *Quo Vadis* Root Canal Disinfection?

**NS-29:** Retreatment, in the Era of Implants?!

**NS-30:** Outcomes for Diabetic Patients: The Facts

**NS-31:** Irrigation Enhancement and Clinical Outcomes

**NS-32:** Biocompatibility: A Survival Guide to Avoiding Adverse Events

**NS-33:** Biofilm: Clinical Strategies for Its Removal

### Art and Science of Surgical Endodontics (S)

**Track Organizer:** Bradford R. Johnson, D.D.S.

- S-1:** Surgical Diagnosis and Treatment Planning Panel
- S-2:** Workshop on Posterior Mandibular Endodontic Surgery
- S-3:** Adjunctive Endodontic Therapy: Combining Endodontics, Periodontics, Orthodontics and Replantation in Surgical Endodontics
- S-4:** The Application of Cone Beam-Volumetric Tomography in Endodontic Surgery: A New Era in Diagnosis and Treatment Planning of Endodontic Microsurgery
- S-5:** Influence of Stress, Inflammation and Gender on Surgical Wound Healing
- S-6:** Tissue Management and Crown Lengthening for Anterior Implant Esthetics
- S-7:** GTR Procedures and Materials in Endodontic Surgery
- S-8:** Endodontic Surgery: Enhanced Outcome Thanks to Optimized Diagnostics
- S-9:** Outcome Expectations in Apical Microsurgery
- S-10:** Interactive 3D Models for Dental Anatomy Education and the Future of Virtual Reality Simulation in Dentistry
- S-11:** Root-End Filling Materials – Does it Make a Difference?
- S-12:** The Use of Regenerative Techniques in Endodontic Surgery



- S-13:** Prevention and Management of Surgical Complications
- S-14:** Positioned for Success: The Surgeon-Patient-Microscope Dynamic
- S-15:** Seeing the Future of Microsurgical Endodontics

## The Future of Dentistry (FD)

Track Organizer: Anil Kishen, B.D.S., M.D.S., Ph.D.

- FD-1:** Future Trends in Pulp Diagnosis
- FD-2:** Future Trends in Pain Management
- FD-3:** Stem Cells and Pulpal Responses in Regeneration and Repair
- FD-4:** Nano-Biomaterials in Hard Tissue Management
- FD-5:** Endodontic Biofilm
- FD-6:** Assessment and Management of Endodontic Pain: Future Trends
- FD-7:** Root Canal Instrumentation in the Future
- FD-8:** Irrigation/Endodontic Disinfection in the Future
- FD-9:** Periapical Responses and Regulation: The Immunological Perspective
- FD-10:** Dentin Pulp Regeneration by Cell Homing
- FD-11:** Dentin Pulp Regeneration Signals and Their Modulation by the Local Microenvironment and Restorative Materials
- FD-12:** Managing the Dentin-Root Filling Material Interface in Endodontics

## Professional Development (PD)

Track Organizer: Clara M. Spatafore, D.D.S., M.S.

- PD-1:** Leadership: If You Build It, They Will Come
- PD-2:** Balanced Living – Dealing with Change in the Office
- PD-3:** Legal Perils of Root Canal Treatment and Implant Surgery
- PD-4:** The Art and Science of Referrals: Research and Marketing
- PD-5:** What Do I Do Now?: Creative Retirement Planning
- PD-6:** You Can Have the Keys to a Stress-Free Practice – Will You Open the Door?
- PD-7:** Contemporary Practice Models: A Panel Discussion
- PD-8:** The General Dentist and Specialist Relationship – The Good, the Bad and the Ugly!
- PD-9:** ABE Boardwalk
- PD-10:** Advocating for Dentistry in DC: The Nuts and Bolts
- PD-11:** Catch Me if You Can

- PD-12:** New Practitioner Checklist – A Guide for Integrating Business and Personal Concerns When Starting a Practice
- PD-13:** Negotiating Commercial Leases and Renewals for Dummies
- PD-14:** The Physician Payment Sunshine Act: What It Means for You
- PD-15:** Are You Flipped, Inverted or Prezi? A Workshop to Improve Your Presentations

## Professional Staff (PS)

Track Organizer: Jane Peck, M.B.A.

- PS-1:** Anatomy of an OSHA Inspection: What to Expect if OSHA Knocks on Your Door
- PS-2:** Infection Prevention: Surviving Spit and Splatter
- PS-3:** Team Meetings That Work!
- PS-4:** BCS: Breakthrough Communication Success
- PS-5:** What You Don't Know Can Hurt You
- PS-6:** How HIPAA, HITECH and Identity Theft Impact the Entire Team
- PS-7:** Developing a Systematic Approach to Training Endodontic Assistants and Staff
- PS-8:** Practice Marketing Roundtable
- PS-9:** Business Etiquette and People Skills
- PS-10:** Decoding the Codes 2014: What's New?

## Pulp Biology, Regendo, Vital Pulp Therapy (PB)

Track Organizer: Peter E. Murray, B.Sc., Ph.D.

- PB-1:** Latest Advances in Regenerative Endodontics
- PB-2:** Biologic Effects of Root Canal Disinfection on Dentin
- PB-3:** Root Canal Disinfection and Scaffolds for Regenerative Endodontics
- PB-4:** Dental and Biomaterials Research at NIDCR
- PB-5:** Dental Pulp Regeneration Strategies
- PB-6:** Apexification, Apexogenesis, Revascularization and Regeneration Protocols
- PB-7:** Vital Pulp Therapy Following Trauma to Immature Teeth
- PB-8:** Dental Trauma and Vital Pulp Therapy
- PB-9:** Imaging Updates and Case Presentations – Focused Field CBCT in Endodontics
- PB-10:** Pain Control for the “Hot” Mandibular Molar: The Endodontist's Dilemma
- PB-11:** Clinical Regenerative Endodontic Procedures
- PB-12:** Management of Traumatized Teeth
- PB-13:** Vital Pulp Therapy Guidelines

## **Saving Teeth (ST)**

Track Organizer: **Shane N. White, B.D.Sc., M.S., M.A., Ph.D.**

- ST-1:** Prosthodontically Advantageous Reasons for Saving Teeth
- ST-2:** Evidence-Based Assessment of Treatment Options and Outcomes for Single Threatened Teeth
- ST-3:** Saving Children's Teeth
- ST-4:** Saving Elder's Teeth: Geriatric Endodontic Considerations
- ST-5:** Saving Teeth: When Not To
- ST-6:** Saving Teeth: Psychosocial Value
- ST-7:** Saving Previously Treated Teeth
- ST-8:** Saving Teeth: Completing the RCT by Protecting Your Endodontic Treatment
- ST-9:** Saving Single Teeth through RCT and Restoration
- ST-10:** Hands-On Workshop – Restoration of Endodontically Treated Teeth with Bonded Cores and Fiber Posts
- ST-11:** Saving Teeth: Predictability and Prognosis
- ST-12:** Saving Teeth Using Medicinal Signaling Pathways That Emulate Development

## **Submitted Presentations (SP)**

Track Organizer: **Robert B. Amato, D.M.D.**

- SP-1:** Clinical Nuts and Bolts of a Regenerative/Revascularization Procedure
- SP-2:** Pulp Regeneration: Recent Advances in Biomaterial Scaffolds
- SP-3:** The Role of Genetics in Predicting Endodontic Treatment Outcome
- SP-4:** The Endodontic Microbiome: Contemporary Perspectives on Endodontic Microbiology
- SP-5:** Endodontics Time Travel: From Diagnosis to Prognosis and Back
- SP-6:** The Legal Basis of Dental Malpractice (Especially for Endodontists): Facts, Figures and Examples You Need to Be Better Protected from Lawsuits
- SP-7:** New Paradigms in Endodontic Irrigation
- SP-8:** To Biopsy or Not to Biopsy: That Is Still the Question
- SP-9:** Magnetic Resonance Imaging – The Next Big Thing?
- SP-10:** Flip Your Class: Design a Successful Learning Environment for Your Students
- SP-11:** How to Build a Strong Case History Portfolio for the ABE Examination
- SP-12:** AAE's Pathognomonic Combination for Vertical Root Fracture Diagnosis: Is the Evidence Based?
- SP-13:** Completing the Journey: A Guide to the Entire ABE Exam Process by Two Recent Diplomates
- SP-14:** The Mouth-Body Connection: An Endodontic Perspective
- SP-15:** Challenges in Teaching Endodontics in the Developing World: A Case Report on the West and Central African Regions
- SP-16:** Clinical Decisions in Managing Challenging Anatomy
- SP-17:** Determining and Maintaining the Correct Dimensions in Endodontic Treatment
- SP-18:** Endodontic Curve Balls
- SP-19:** New Advances in Mechanical Instrumentation to Control Intracanal Infection
- SP-20:** Management of Calcified Root Canals
- SP-21:** Endodontics and Systemic Diseases: What You Need to Know Today
- SP-22:** Contribution of New Technologies to the Understanding of Complex Root Canal Anatomy and Effective Endodontic Treatment
- SP-23:** An Update on Reciprocating Instrumentation
- SP-24:** Minimally Invasive Endodontics Using Photon-Induced Photoacoustic Streaming (PIPS)
- SP-25:** Problem-Based Learning in Endodontics – Learning from Success and Failure
- SP-26:** Surgical and Nonsurgical Retreatment Decision: Clinical and Evidence-Based Approach
- SP-27:** Locate and Create! Endodontic Office Start Up or Expansion
- SP-28:** The Interdisciplinary Endodontist: Are You Making the Right Decisions?
- SP-29:** Chronic Fibrosing Osteomyelitis – Clinical and Histopathological Presentation of a Frequently Misdiagnosed Bone Disease
- SP-30:** Spelunking 101 – To the Apex and Back
- SP-31:** Biological Principle of GTR in Endodontic Surgery
- SP-32:** The Secrets to Effortless, Fun and Efficient Endodontics



# AAE Workshops

Join well-known AAE speakers for an authoritative workshop program throughout the Annual Session. Advance registration is required by **March 1**. Register today at [www.aae.org/annualsession](http://www.aae.org/annualsession). Workshops may be cancelled if minimum attendance is not met.

## Thursday • 8 a.m. – 5 p.m.

### S-2: Workshop on Posterior Mandibular Endodontic Surgery (p. 13)

Dr. Mahmoud Torabinejad

Fee: \$995 early/ \$1,145 standard

## Friday • 8:30 a.m. – noon

### NS-18: Retreatment Workshop (p. 18)

Dr. Julian Webber

Fee: \$495 early/ \$645 standard

## Friday • 1:30 – 5 p.m.

### NS-23: CBCT Workshop (p. 22)

Dr. Madhu K. Nair

Fee: \$495 early/ \$645 standard

## Friday • 1:30 – 5 p.m. (continued)

### ST-10: Restoration of Endodontically Treated Teeth with Bonded Cores and Fiber Posts (p. 22)

Dr. Jorge Perdigao

Fee: \$495 early/ \$645 standard

## Saturday • 8:30 – 11:45 a.m.

### PD-15: Are You Flipped, Inverted or Prezi? A Workshop to Improve Your Presentations (p. 25)

Drs. Yaara Y. Berdan and Thomas A. Levy

Fee: \$25 early/ \$50 standard

*Workshops are made possible through product support from several companies. A complete list will be available on site.*

## Corporate Lectures and Workshops

### Now in the Exhibit Hall

The AAE is pleased to provide a venue for product lectures and hands-on workshops presented by corporate partners and their representatives. All sessions are complimentary and will take place in the Exhibit Hall. Hands-on workshops require advance registration. Additional information can be found at [www.aae.org/annualsession](http://www.aae.org/annualsession).



Products & Services in 60 Minutes or Less

#### LECTURES

##### Wednesday

11 a.m. – noon

### Surgical Applications of Bioceramics

Dr. Ali Nasseh  
Brasseler USA

2 – 3 p.m.

### Sound Science: Multisonic Ultracleaning

Dr. Mehrzad Khakpour  
Sonendo, Inc.

##### Thursday

9 – 10 a.m.

### Virtual Surgery® Approach to Endodontic Therapies

Dr. Stephen Niemczyk  
Carestream Dental

2 – 3 p.m.

### Gutta Core: What Is It Good for?

Dr. David Landwehr  
DENTSPLY Tulsa Dental Specialties

##### Friday

10 – 11 a.m.

### Preserving the Future: The New Approach to Endodontic Therapy

Dr. George Bruder  
DENTSPLY Tulsa Dental Specialties

2 – 3 p.m.

### CBCT for Endodontic Diagnosis and Treatment Planning

Dr. Samuel Kratchman  
J. Morita USA

## Corporate Workshops



#### WORKSHOPS

Seats are limited. Register today at [www.aae.org/annualsession](http://www.aae.org/annualsession).

##### Wednesday • 2 – 5 p.m.

### The Rationale and Use of Electronic Apex Locators

Dr. L. Stephen Buchanan  
J. Morita USA

##### Thursday • 2 – 5 p.m.

### The Cork Obturation Technique

Dr. Wyatt Simons  
B & L Biotech USA

##### Friday • 2 – 5 p.m.

### 3D Hands-On Computer Workshop: Tips and Tricks to Enhance Your Proficiency

Mr. Jordan Reiss  
Mr. Ryan Roosekrans  
Carestream Dental

# Educational Sessions

Listed below are the learning objectives for each of the educational sessions to be presented at this year's meeting. Complete session synopses and speaker disclosure statements can be found at [www.aae.org/annualsession](http://www.aae.org/annualsession).

The AAE is an ADA CERP Recognized Provider.

**ADA CERP**® | Continuing Education Recognition Program

## WEDNESDAY GENERAL SESSION

### Potomac Ballroom

12:30 – 5 p.m.

Wednesday's unique, general session format introduces this year's educational tracks in back-to-back presentations that are 30 to 45 minutes in length. Give your undivided attention to inspiring speakers and topics in the Potomac Ballroom, and get an exciting overview of the cutting edge in endodontics!

12:30 – 1:15 p.m.

### A Skeptic's Guide to Clinical Practice

#### Potomac Ballroom

Michael Glick, D.M.D.

- Describe the rationale for existing clinical protocols; be able to apply existing evidence to patient care.
- Find the best available evidence for clinical decision making.
- Apply existing evidence to patient care.

1:15 – 1:45 p.m.

### NIDCR/NIH: Research Advancing Oral Health

#### Potomac Ballroom

Martha J. Somerman, D.D.S., Ph.D.

- Identify and discuss areas of research from basic, translational to clinical and training supported by NIDCR/NIH.
- Discuss the current projects being supported by NIDCR/NIH in the area of salivary/oral tissue diagnostics.
- Discuss the 'omics' evolution and its implications for precision health care delivery.

1:45 – 2:15 p.m.

### Present State of Craniofacial Regeneration Concepts

#### Potomac Ballroom

Robert G. Hale, D.D.S.

- Define the types of craniomaxillofacial wounds and their treatment needs.
- List the equipment, biomaterials, medicaments and regenerative surgical therapies that are used for the treatment of craniomaxillofacial wounds.
- Describe the roles of endodontists and dentists in the rehabilitation of patients with craniomaxillofacial wounds.

2:15 – 3 p.m.

### An Overview of Regenerative Endodontics

#### Potomac Ballroom

Kenneth M. Hargreaves, D.D.S., Ph.D.

- Describe the three major steps in tissue engineering and how they apply to regenerating the pulp-dentin complex.
- Discuss the clinical principles needed for regenerative endodontic procedures.
- Describe clinical outcomes of successful regenerative endodontic procedures.

3:20 – 4:05 p.m.

### Endodontic Microsurgery: Integral and Important Part of Endodontic Practice

#### Potomac Ballroom

Syngcuk Kim, D.D.S., Ph.D.

- List the advantages of using microsurgery for failed endodontic cases.
- Distinguish microsurgery from the old traditional method of doing apicoectomy.
- Describe the most recent advancement in materials and instruments and how they are used during the surgery.

4:05 – 4:50 p.m.

### Saving Teeth: Why This Matters to Patients and Society

#### Potomac Ballroom

Shane N. White, B.D.Sc., M.S., M.A., Ph.D.

- Listen to and counter patient perceptions of fear, pain and anxiety.
- Discuss the dollar benefits of retaining a tooth through RCT.
- Discuss how to be an advocate for saving teeth through RCT.

WEDNESDAY



## WEDNESDAY

### 1:30 – 3 p.m.

#### **PD-1: Leadership: If You Build It, They Will Come** **Chesapeake G**

Sally J. Cram, D.D.S.

*Moderator: Paula L. Russo, D.D.S., M.S.*

- Discuss what the term “leadership” really means and how good or bad leadership affects every aspect of the dental practice.
- Demonstrate the skills and techniques that improve office communication.
- Demonstrate leadership qualities that empower the dental team and increase productivity and patient treatment acceptance.



### 3:30 – 5 p.m.

#### **PD-2: Balanced Living - Dealing with Change in the Office** **Chesapeake G**

Brian Luke Seaward, Ph.D.

*Moderator: Kimberly A. Dettori*

- Define stress and stress-related burnout.
- Explain the four styles of mismanaged anger.
- Demonstrate the skill of healthy boundaries regarding negativity in the worksite.

WEDNESDAY

## THURSDAY

### 8 – 9:30 a.m.

#### **FD-1: Future Trends in Pulp Diagnosis** **National Harbor 5**

Matthias Zehnder, D.M.D., Ph.D.

*Moderator: Pavel Cherkas, D.M.D., Ph.D.*

- Discuss why there is an ongoing goal for better diagnostics in pulpal disease.
- Compare traditional and molecular methods to assess pulpal health.
- Describe new ideas and trends to noninvasively diagnose pulpal disease.

#### **NS-1: Toward a Cell Biology of Pain** **Chesapeake A**

Jon D. Levine, M.D., Ph.D.

*Moderator: Nadia Chugal, D.D.S., M.S.*

- Describe the types of pain mechanisms underlying the diversity of pain syndromes.
- Discuss the transition from acute to chronic pain and some of the underlying molecular mechanisms.
- Discuss some of the novel cellular mechanisms involved in clinical pain syndromes.

#### **NS-2: What Can a Practicing Endodontist Learn from Clinical Studies?** **Maryland A**

Ronald G. Craig, D.M.D., Ph.D.

Philippe P. Hujoel, D.D.S., M.S., M.S.D., Ph.D.

Kaumudi Joshipura, B.D.S., M.S., Sc.D.

*Moderator: Shane N. White, B.D.Sc., M.S., M.A., Ph.D.*

- Assess different levels of evidence related to clinical practice.
- Outline which levels of evidence should impact clinical practice preferentially.
- Describe how practice based networks may function to create clinically relevant evidence.

#### **NS-3: Tooth Fracture Classification: Longitudinal Tooth Fractures Detected!** **Maryland C**

Eric M. Rivera, D.D.S., M.S.

*Moderator: James D. Johnson, D.D.S., M.S.*

- Define longitudinal fractures according to the classification scheme: 1. craze line, 2. cuspal fracture, 3. cracked tooth, 4. split tooth, and 5. vertical root fracture.
- Articulate ways to identify and accurately detect longitudinal fractures: 1. Explore the “typical” characteristics of longitudinally fractured teeth and 2. Determine which diagnostic aids are required to locate fractures in teeth.
- Distinguish prognosis, alternatives and rationale for treatment of teeth with longitudinal fractures.

#### **NS-4: Future of Microbiologic Studies** **Maryland 1**

Luis Chavez de Paz, D.D.S., M.S., Ph.D.

*Moderator: Bettina R. Basrani, D.D.S., M.S.D., Ph.D.*

- List the applications of innovative methods used in microbiology to improve clinical outcome.
- Define the importance of improving the translation of basic science studies to meet clinical needs.
- Define the place that basic research in endodontic microbiology has in the context of endodontic pathobiology.

THURSDAY



**8 – 9:30 a.m. (continued)**

## **PB-1: Latest Advances in Regenerative Endodontics**

### **National Harbor 3**

Anibal R. Diogenes, D.D.S., M.S., Ph.D.

*Moderator: Cameron M. Howard, D.M.D., M.S.D.*

- Assess the current evidence on disinfection and stem cell biology-related regenerative endodontics.
- Discuss the critical steps in regenerative endodontic procedures.
- Identify the current gap in knowledge, and discuss future directions in regenerative endodontic procedures.

## **PB-2: Biologic Effects of Root Canal Disinfection on Dentin**

### **National Harbor 10**

David E. Jaramillo, D.D.S.

Melissa Marchesan, D.D.S., M.Sc., Ph.D.

*Moderator: John T. McSpadden, D.D.S.*

- Describe the Effect of PIPS (Photon Induced Photoacoustic) technology.
- Demonstrate the efficacy of PIPS in root canal disinfection and dentin debris removal.
- Compare the efficacy of PIPS to other irrigations techniques.

## **PD-5: What Do I Do Now?: Creative Retirement Planning**

### **Maryland 4**

Anthony T. Borgia, D.D.S.

Sandra Madison, D.D.S., M.S.

*Moderator: Joel C. Small, D.D.S., M.B.A.*

- Discuss what is possible for your post-practice years.
- Collaborate with spouses or significant others to plan a mutually fulfilling future.
- Create a game plan to investigate various post-practice options.

## **PS-1: Anatomy of an OSHA Inspection: What to Expect if OSHA Knocks on Your Door**

### **Chesapeake G**

Linda Harvey, R.D.H., M.S., L.H.R.M.

*Moderator: Maria Mumpower*

- Assess your current OSHA manual and quality assurance documentation.
- Identify exactly what to expect during an unannounced inspection.
- Examine the relationship between compliance, patient safety and legal liability.

## **SP-1: Clinical Nuts and Bolts of a Regenerative/Revascularization Procedure**

### **Chesapeake 6**

Richard Gelman, D.M.D.

*Moderator: Meghan T. Cooper, D.M.D.*

- Identify patients suitable for a regenerative/revascularization procedure.
- Choose the most appropriate regenerative/revascularization procedure.
- Perform all regenerative/revascularization procedures.

## **ST-1: Prosthodontically Advantageous Reasons For Saving Teeth**

### **National Harbor 12**

Charles J. Goodacre, D.D.S., M.S.D.

*Moderator: Paul V. Abbott, B.D.S., M.S., Ph.D.*

- Discuss the esthetic challenges that accompany tooth loss in visible areas of the mouth.
- Describe the prosthodontic benefits of retaining natural teeth.
- Discuss the clinical complications occurring with fixed and removable tooth replacements that support tooth retention.

**8 – 11:30 a.m.**

## **PD-3: Legal Perils of Root Canal Treatment and Implant Surgery**

### **Chesapeake D**

Robert Gittleman, J.D.

*Moderator: George T. Goodis, D.D.S., M.S.*

- Identify, control, avoid, minimize or eliminate the risk of endodontic malpractice.
- Describe the legal perils of practicing endodontics with the proximity of the legal system to the daily operations in an endodontic practice.
- Discuss the clinical management of the patient by the endodontist to mitigate a litigious outcome.

## **PD-4: The Art and Science of Referrals: Research and Marketing**

### **Chesapeake J**

James Wolcott, D.D.S.

Harriet M. Bogdanowicz, M.B.A., CAE

*Moderator: Jennifer Gibson*

- Identify drivers that lead general dentists to refer patients to endodontists.
- Describe specific actions endodontists can take to increase referrals.
- Discuss how to use AAE resources including the Professional Outreach Toolkit to assess, plan, develop and execute your own targeted practice marketing program.

*Planned by the AAE Public and Professional Relations Committee, this session presents the most recent data on referral dynamics and associated endodontic practice marketing strategies.*



## S-1: Surgical Diagnosis and Treatment Planning Panel

### Maryland B

George A. Bruder, D.M.D.

Mohamed I. Fayad, D.D.S., M.S., Ph.D.

Syngcuk Kim, D.D.S., Ph.D.

*Moderator: Martin J. Rogers, D.D.S.*

- Apply the best available current evidence to support clinical decision making.
- Recognize the role of clinical experience in shaping treatment decisions.
- Utilize 3-D information to establish the correct strategy to achieve a favorable prognosis well before the beginning of the treatment (nonsurgical, surgical or single tooth implant).

**8 a.m. – 5 p.m.**

## S-2: Workshop on Posterior Mandibular Endodontic Surgery

### Potomac 4

Mahmoud Torabinejad, D.M.D., M.S.D., Ph.D.

*Moderator: Ramon Aguirre, D.D.S., M.S.*

*Fee: \$995 early / \$1145 standard*

- Discuss the indications for endodontic surgery.
- Describe the step-by-step procedures involved in periapical surgery, including those for incision and reflection, access to the apex, apical curettage, root-end resection, root-end preparation and filling, flap replacement, and suturing.
- Discuss the prognosis of micro-endodontic surgery.

**10 – 11:30 a.m.**

## FD-2: Future Trends in Pain Management

### National Harbor 3

Kenneth M. Hargreaves, D.D.S., Ph.D.

*Moderator: Nikita B. Ruparel, D.D.S., M.S., Ph.D.*

- Describe a fast and efficient routine for managing dental pain emergency patients.
- Select the best combination of analgesics to manage dental pain.
- Provide effective local anesthesia to the classic “hot” molar case.

## NS-5: The Cytokine Network: What Does an Endodontist Need to Know?

### National Harbor 5

Asma A. Khan, B.D.S., Ph.D.

*Moderator: Natasha M. Flake, D.D.S., Ph.D.*

- Discuss the role of cytokines in endodontic disease.
- Compare the role of cytokines in periapical lesions and periodontal disease.
- Discuss the clinical implications and potential therapeutic targets.

## NS-6: Managing Pre- and Postoperative Pain During Endodontic Procedure: A Changing Landscape

### Chesapeake A

Paul A. Moore, D.M.D., Ph.D., M.P.H.

*Moderator: Al Reader, D.D.S., M.S.*

- Discuss the toxicity of acetaminophen and changes in analgesic drug formulations.
- Describe the rationale for combining analgesics having different mechanisms of action, such as opioids with acetaminophen and NSAIDs with acetaminophen
- Explain the indications and contraindications to the use of bupivacaine in managing endodontic pain.

## NS-7: Minimally Invasive Endodontics: Can It Work?

### Maryland A

Nestor Cohenca, D.D.S.

James L. Gutmann, D.D.S.

Sergio Kuttler, B.S., D.D.S.

Richard E. Walton, D.M.D., M.S.

*Moderator: Alan H. Gluskin, D.D.S.*

- Outline the possibilities of vital pulp therapy and pulp regeneration as alternatives to root canal treatment.
- Provide a working definition of “minimally invasive endodontics.”
- Describe clinical steps associated with minimally invasive root canal treatment.

## NS-8: Dentin – A Beautiful Partnership with Pulp!

### Maryland C

Anthony J. Smith, Ph.D.

*Moderator: Tatiana M. Botero-Duque, D.D.S., M.S.*

- Discuss the composition and structure of dentin and how the properties of this tissue may contribute to pulp cellular responses after injury.
- Explain how the composition and structure of dentin might be exploited to underpin development of novel therapeutic strategies in endodontics.
- Identify how modifications to current treatment approaches may lead to improved patient outcomes.





**10 – 11:30 a.m. (continued)**

## **NS-9: Oral Health, Nutrition and Cardiometabolic Conditions**

### **Maryland 4**

**Kaumudi Joshipura, B.D.S., M.S., Sc.D.**

*Moderator: Ashraf F. Fouad, D.D.S., M.S.*

- Describe the relationship between oral and cardiometabolic conditions.
- Discuss potential pathways relating oral and cardiometabolic conditions.
- Evaluate the body of literature to discuss whether oral conditions may be risk indicators or causally related with cardiometabolic conditions.

## **PB-3: Root Canal Disinfection and Scaffolds for Regenerative Endodontics**

### **National Harbor 10**

**Carmen Bonilla, D.M.D.**

*Moderator: Armando Lara, D.D.S.*

- List the disinfectants and scaffolds that can be used for regenerative endodontic treatment.
- Describe the roles of disinfectants and scaffolds in regenerative endodontic treatment.
- Define how to provide the most effective regenerative endodontic treatment.

## **PS-2: Infection Prevention: Surviving Spit and Splatter**

### **Chesapeake 6**

**Linda Harvey, R.D.H., M.S., L.H.R.M.**

*Moderator: Lynda L. Davenport, R.D.A.*

- Discuss the relationship between infection prevention, patient safety and legal liability.
- Discuss basic infection prevention practices.
- Evaluate your current infection prevention techniques and products against regulatory guidelines and proven practices.

## **SP-2: Pulp Regeneration: Recent Advances in Biomaterial Scaffolds**

### **Chesapeake 6**

**Sahng Gyoon Kim, D.D.S., M.S.**

*Moderator: Joan-Marie S. Manolakis, D.M.D.*

- Recognize the functions of biomaterial scaffolds for pulp tissue engineering.
- Describe the types and ideal properties of biomaterial scaffolds for pulp regeneration.
- Discuss the recent advances in biomaterial scaffolds for pulp regeneration and their potential use in clinical regenerative endodontic treatment.

## **SP-3: The Role of Genetics in Predicting Endodontic Treatment Outcome**

### **Maryland 1**

**Ariadne Letra, D.D.S., M.S., Ph.D.**

**Renato M. Silva, D.D.S., M.S., Ph.D.**

*Moderator: Justin R. McAbee, D.M.D., M.S.D.*

- List the types of genetic variations that may affect an individual gene.
- Discuss the key genes frequently associated with pulpal and periapical disease.
- Discuss how genetic variation may help predict host susceptibility to disease and endodontic treatment outcome.

## **ST-2: Evidence-Based Assessment of Treatment Options and Outcomes for Single Threatened Teeth**

### **National Harbor 12**

**James Bader, B.S., D.D.S., M.P.H.**

*Moderator: Shane N. White, B.D.Sc., M.S., M.A., Ph.D.*

- Conduct a discussion that fully informs a patient of the treatment options available for saving a tooth that is being considered for extraction, as well as for managing a tooth space created by an extraction.
- Describe the level of evidence necessary for formulating a treatment guideline.
- Identify four second-level treatment strategies that must be considered prior to making a decision to save or extract a single tooth.

**1:30 – 3 p.m.**

## **FD-3: Stem Cells and Pulpal Responses in Regeneration and Repair**

### **Chesapeake 6**

**Anthony J. Smith, Ph.D.**

*Moderator: Satish B. Alapati, B.D.S., M.S., Ph.D.*

- Recognize the diversity of stem cell populations resident in the pulp and recruited to this tissue post-injury.
- Discuss how these stem cell populations may contribute to regeneration and repair in the pulp following injury.
- Identify how defense inflammatory and immune events may interact with regenerative and reparative processes and modulate outcomes.

## **FD-4: Nano-Biomaterials in Hard Tissue Management**

### **Maryland 4**

**Anil Kishen, B.D.S., M.D.S., Ph.D.**

*Moderator: Anita Aminoshariae, D.D.S., M.S.*

- Discuss the basics of nanoparticles and their application in endodontics.
- Discuss the fundamentals/applications of nanoparticles for biofilm elimination and collagen crosslinking in the management of root canal dentin.
- Recognize the significance of nanoparticles for controlled release of drug/growth factor in dentin-pulp engineering.



## NS-10: Diagnostic Processes and the Reliability of Pulp Testing

### National Harbor 5

Paul V. Abbott, B.D.Sc., M.D.S.,  
FRACDS(Endo)

*Moderator: Fabricio B. Teixeira, D.D.S., M.S., Ph.D.*

- Describe the various stages of the diagnostic process and their importance.
- Describe the various pulp sensibility and vitality tests, as well as the differences between them.
- Describe which pulp test is the most appropriate for each of the various situations when pulp, root canal and periapical conditions present for diagnosis.

## NS-11: Nonendodontic Pain: Recognition and Its Management

### Chesapeake A

Steven Graff-Radford, D.D.S.

*Moderator: Asgeir Sigurdsson, D.D.S., M.S.*

- Discuss different pain conditions that may mimic toothache.
- Describe the mechanisms whereby the pain is created.
- Describe the scope of treatment for nonodontogenic pain management.

## NS-12: CBCT Technology Development and Its Impact on Current Treatment Planning

### Maryland A

Umadevi P. Nair, B.D.S., D.M.D., M.D.S.

*Moderator: Elisabetta Cotti, D.D.S., M.S.*

- Describe the advantages of CBCT over conventional radiographs in endodontic diagnosis and treatment planning.
- Discuss the clinical applications of CBCT in endodontic treatment planning.
- Discuss selection criteria for use of CBCT technology in endodontic treatment planning.

## NS-13: On the Hardness and Fracture Resistance of Dentin

### Maryland C

Dwayne D. Arola, Ph.D.

*Moderator: James L. Gutmann, D.D.S.*

- Describe the importance of dentin microstructure to spatial variations in the hardness and strength of dentin.
- Describe the importance of dentin microstructure to spatial variations in the fracture resistance of dentin.
- Describe the changes that take place in the microstructure and fracture resistance of dentin with aging.

## NS-14: Common Reasons for False-Positive Conclusions in Randomized Studies

### Maryland 1

Philippe P. Hujoel, D.D.S., M.S., M.S.D., Ph.D.

*Moderator: Samantha P. Harris, D.D.S.*

- Recognize which randomized trial characteristics are likely to lead to false-positive results.
- Discuss how clinical trial registration may help reduce false-positive rates.
- Discuss how hypotheses generated post-trial are highly unreliable.

## PB-4: Dental and Biomaterials Research at NIDCR

### National Harbor 3

James Drummond, D.D.S., Ph.D.

Robert G. Hale, D.D.S.

*Moderator: Peter E. Murray, B.Sc., Ph.D.*

- Discuss the role of NIDCR within NIH.
- Identify current dental materials and biomaterials research at NIDCR.
- Survey current and future research plans at NIDCR.

## PD-6: You Can Have the Keys to a Stress-Free Practice – Will You Open the Door?



### Chesapeake J

Sally J. Cram, D.D.S.

*Moderator: Paula L. Russo, D.D.S., M.S.*

- Discuss the factors that cause stress.
- Describe difficult patient and staff behaviors that threaten productivity, effectiveness and personal well-being
- Discuss verbal and nonverbal skills and techniques which will improve the office atmosphere and enable the dental team to improve patient confidence, compliance and treatment acceptance.

## PS-3: Team Meetings That Work!

### Chesapeake G

Ginny Hegarty, SPHR

*Moderator: Deb L. Welters, R.D.A.*

- Discuss better delegation so your expectations are understood and met.
- Increase team member engagement so meetings are upbeat and productive.
- Avoid the negative and set everyone's sights on the opportunities at hand.



**1:30 – 3 p.m. (continued)**

## **S-3: Adjunctive Endodontic Therapy: Combining Endodontics, Periodontics, Orthodontics and Replantation in Surgical Endodontics**

### **Maryland B**

Samuel I. Kratchman, D.M.D.

Katsuei Mori, D.D.S.

*Moderator: Robert W. Hawkinson, Jr., D.D.S., M.S.*

- Develop treatment plans for complex cases incorporating the various specialties.
- Discuss the relationship between specialists and ensure that endodontics is included in treatment planning.
- Describe the techniques and treatment planning of intentional replantation.

## **SP-4: The Endodontic Microbiome: Contemporary Perspectives on Endodontic Microbiology**

### **National Harbor 10**

Ashraf F. Fouad, D.D.S., M.S.

*Moderator: Christopher J. Douville, D.D.S., M.S.D.*

- Describe the different methods that are currently used in studying endodontic microbiology.
- Describe the complexity of the endodontic microbiome.
- Describe the impact of recent microbiological findings on clinical practice.

## **SP-23: An Update on Reciprocating Instrumentation**

### **Chesapeake D**

Gianluca Gambarini, M.D., D.D.S.

*Moderator: Diana L. Montagu Cline, D.M.D.*

- Discuss advantages and disadvantages of reciprocation.
- Describe new approaches to reciprocation with NiTi instruments.
- Describe how to create an endodontic glide path with reciprocating SS instruments.

## **ST-3: Saving Children's Teeth**

### **National Harbor 12**

George Bogen, D.D.S.

*Moderator: Shane N. White, B.D.Sc., M.S., M.A., Ph.D.*

- Describe the microbiology/physiology of dental caries, understand the regenerative capacity of healthy pulp tissue, assess the degree of pulpal involvement and indications for direct pulp capping versus partial/complete pulpotomy.
- Implement new treatment protocols for caries removal, hemorrhage control, CSC and sealed restoration placement, and select the most beneficial treatment option that allows for apexogenesis and continued root maturation.

- Discuss the principles of tooth structure conservation and selection of appropriate restorative dental materials that prevent tooth fracture, preserve the periodontium and promote tooth retention and longevity.

**3:30 – 5 p.m.**

## **FD-5: Endodontic Biofilm**

### **National Harbor 10**

Luis Chavez de Paz, D.D.S., M.S., Ph.D.

*Moderator: Taner C. Sayin, D.D.S., Ph.D.*

- Define the dynamic nature of biofilm communities in root canals.
- Define the interplay between basic biofilm biology and microbial pathogenesis of endodontic infections.
- List current advances in biofilm science and how this new information can be translated to improve endodontic clinical outcome.

## **FD-6: Assessment and Management of Endodontic Pain: Future Trends**

### **Chesapeake A**

Pavel Cherkas, D.M.D., Ph.D.

*Moderator: Renato M. Silva, D.D.S., Ph.D.*

- Discuss different pain mechanisms.
- Discuss the genetic determinants of pain.
- Apply a personalized medicine concept in dentistry.

## **NS-15: The Oral and Systemic Health Interaction**

### **National Harbor 3**

Michael Glick, D.M.D.

*Moderator: Elisabetta Cotti, D.D.S., M.S.*

- Evaluate studies reporting on association between oral and systemic conditions.
- Discuss the association between oral infections and general health.
- Inform patients about the association between oral infections and their health.

## **NS-16: Influence of Root Canal Procedures on the Root Canal Wall**

### **Maryland C**

Hagay Shemesh, D.M.D., Ph.D.

Martin Trope, D.M.D.

*Moderator: Terry D. Webb, D.D.S., M.S.*

- Describe the influence of hypochlorite, EDTA and other irrigation materials on dentin.
- Discuss the current evidence on effects of root canal procedures on cracks formation and dentinal defects.
- Discuss current and future trends in file design and endodontic access preparations to minimize damage to tooth structure.



## NS-17: Outcomes of Endodontic Therapy in General Practice: A PBRN Study Maryland 1

Ronald G. Craig, D.M.D., Ph.D.

*Moderator: Natasha M. Flake, D.D.S., Ph.D.*

- Compare rates of success for primary endodontic therapy in general practice from studies using dental insurance claims data and from practices participating in a practice-based research network.
- Describe risk factors associated with adverse outcomes for primary endodontic therapy in general practice based upon findings from a practice-based research network.
- Describe factors associated with successful restoration of teeth that have undergone primary endodontic therapy based upon findings from a practice-based research network.

## PB-5: Dental Pulp Regeneration Strategies Chesapeake 6

Jianing He, D.M.D., Ph.D.

Avina K. Paranjpe, B.D.S., M.S., M.S.D., Ph.D.

*Moderator: Maobin Yang, D.D.S. M.D.S., Ph.D.*

- List the basic principles and common strategies for tissue regeneration.
- Critically evaluate the evidence in current literature on regenerative endodontic procedures.
- Describe recent advances in the regeneration of the pulp/dentin complex.

## PD-7: Contemporary Practice Models: A Panel Discussion Chesapeake D

Matthew D. DiAndreth, D.M.D.

Tevyah J. Dines, D.M.D.

Margot T. Kusienksi, D.M.D.

Alan S. Law, D.D.S., Ph.D.

*Moderator: Colleen C. Shull, D.M.D., M.A.*

- Discuss the advantages/disadvantages of a solo practitioner in an endodontic practice.
- Discern which practice model suits your lifestyle.
- Discuss the business strengths and weaknesses for a large group practice.

## PD-8: The General Dentist and Specialist Relationship – The Good, the Bad and the Ugly! Chesapeake J

Sally J. Cram, D.D.S.

*Moderator: Paula L. Russo, D.D.S., M.S.*

- Discuss the impediments to the referral relationship from both the general dentist and specialist perspectives, and how to remove these roadblocks.
- Make successful referrals and strengthen the relationship to allow better cooperation and patient treatment outcomes.

- Practice and use simple verbal techniques that support the treatment recommendations of the general dentist and the specialist, as well as gain information from patients that can help to improve their treatment experience and outcomes.

## PS-4: BCS: Breakthrough Communication Success Chesapeake G

Ginny Hegarty, SPHR

*Moderator: Joseph H. Coates*

- Create a practice culture that attracts and retains the very best people.
- Ditch the drama and focus on results – it's easier than you think.
- Improve communication with your team members and your patients in six surprisingly simple steps.

## S-4: The Application of Cone Beam Volumetric Tomography in Endodontic Surgery: A New Era in Diagnosis and Treatment Planning of Endodontic Microsurgery Maryland A

Mohamed I. Fayad, D.D.S., M.S., Ph.D.

*Moderator: Timothy J. Rogers, D.D.S., M.S.*

- Identify the importance of CBVT information in presurgical assessment, case selection and treatment planning.
- Utilize the appropriate Guided Bone Regeneration (GBR) products as bone grafts and membranes in endo/perio and marginal defect cases when indicated.
- Utilize the CBVT information to identify and manage cases involving vital structure (maxillary sinus, inferior alveolar, mental and nasopalatine bundle).

## SP-5: Endodontics Time Travel: From Diagnosis to Prognosis and Back National Harbor 5

Louis H. Berman, D.D.S., F.A.C.D.

Ilan Rotstein, D.D.S.

*Moderator: Robert B. Amato, D.M.D.*

- Evaluate the variables that may decrease the prognosis of a tooth requiring endodontic treatment.
- Describe the variations that exist in the literature regarding endodontic treatment prognosis.
- Apply this knowledge for evidence-based assessment of diagnosis, prognosis and treatment decision making.

THURSDAY



## 3:30 – 5 p.m. (continued)

### SP-6: The Legal Basis of Dental Malpractice (Especially for Endodontists): Facts, Figures and Examples You Need to Be Better Protected from Lawsuits Maryland 4

Anthony T. Borgia, D.D.S., M.H.A.

Moderator: Clara M. Spatafore, D.D.S., M.S.

- Discuss the legal basis upon which dental malpractice cases are made.
- Describe methods to take in speaking with patients and recording notes in office records to best insulate yourself from any potential malpractice claims.
- Communicate clearly and effectively with insurance adjusters when transmitting documentation that will resolve any patient disputes at a very early stage, thus avoiding extensive litigation and minimizing time lost from patient care.

### SP-7: New Paradigms in Endodontic Irrigation Maryland C

Marc Balson, D.D.S., F.A.C.D.

Moderator: Jill I. Young, D.M.D.

- List deficiencies of traditional irrigation.
- Discuss potential improvements in irrigants and their delivery.
- Develop a knowledge baseline for electro-chemomechanical irrigation and describe the inherent efficacies and efficiencies created by this new paradigm.

### ST-4: Saving Elder's Teeth: Geriatric Endodontic Considerations National Harbor 12

Richard E. Walton, D.M.D., M.S.

Moderator: Shane N. White, B.D.Sc., M.S., M.A., Ph.D.

- Describe similarities/differences biologically in the younger versus older patient.
- Identify and solve the treatment problems presented by the elderly patient.
- Describe the challenges presented by the very old patient and how best to manage those challenges.

## FRIDAY

### 8:30 a.m. – noon

### NS-18: Retreatment Workshop Potomac 4

Julian Webber, B.D.S., M.Sc.

Moderator: Laura L. Milroy, D.D.S.

Fee: \$495 early/\$645 standard

- Discuss the cause of success and failure in endodontics.
- Use the microscope optimally for efficient endodontic retreatment procedures.
- Describe a diverse variety of commonly encountered challenges seen during the endodontic retreatment procedure, such as removal of separated instruments, bypassing ledges, removal of gutta percha (carrier based and gutta core) and perforation repair.

### 10:30 a.m. – noon

### FD-7: Root Canal Instrumentation in the Future National Harbor 3

Ove A. Peters, D.M.D., M.S., Ph.D.

Moderator: Meetu R. Kohli, B.D.S., D.M.D.

- List the requirements for clinically successful canal preparation.
- Describe potentially adverse effects of contemporary preparation technique.
- Detail potential avenues for future developments, including technological breakthroughs required for each.

### NS-19: CBCT: Is It Essential for the Diagnosis of Apical Pathosis? National Harbor 10

Alan H. Gluskin, D.D.S.

Hagay Shemesh, D.M.D., Ph.D.

Moderator: Umadevi P. Nair, B.D.S., D.M.D., M.D.S.

- Critically evaluate the parameters of endodontic follow-up based on guidelines of the AAE and the ESE.
- Outline how we measure outcomes with CBCT and future directions for research and patient care.
- Discuss the biologic implications of healing and the factors that influence healing in our general health.

### NS-20: Fluid Dynamics Inside Root Canals Maryland 1

Christos Boutsoukakis, D.D.S., M.Sc., Ph.D.

Moderator: Anil Kishen, B.D.S., M.D.S., Ph.D.

- Describe the main characteristics of irrigant flow developed when various delivery and agitation methods are applied.
- List key parameters affecting the flow that can be controlled by the clinician.
- Discuss future directions for multidisciplinary research on root canal irrigation.





## PB-6: Apexification, Apexogenesis, Revascularization and Regeneration Protocols



### Maryland A

Richard Gelman, D.M.D.

Peter E. Murray, B.Sc., Ph.D.

*Moderator: Oscar R. Bolanos, D.D.S., M.S.*

- Conduct an evidence-based and decision-analysis approach to identify teeth that can benefit from revascularization and regenerative endodontic procedures.
- Describe the criteria for providing an apexification or apexogenesis procedure to an immature tooth instead of a revascularization procedure.
- Define how to use instruments and materials to accomplish quick and effective regenerative endodontic procedures.

## PD-10: Advocating for Dentistry in DC: The Nuts and Bolts

### Chesapeake 9

Ali Behnia, D.M.D., M.S.

Paul A. Gosar, D.D.S.

Michael Graham, B.A., M.P.P.

Susan L. Wolcott, D.D.S.

Dennis J. Zent, D.D.S., M.S.D.

*Moderator: William D. Powell, D.D.S., M.S.*

- Describe current legislation affecting dentistry.
- Describe dentistry's position on the legislation succinctly.
- List different avenues of communication with representatives in Washington.

*Planned by the AAE Professional Affairs Committee, this session features U.S. Congressman Dr. Paul A. Gosar; ADA Senior Vice President for Government and Public Affairs Michael Graham; and leading endodontists who have been actively involved in advocating for the endodontic specialty at the local and national level.*

## PD-11: Catch Me if You Can

### Chesapeake D

J.D. Thomas, Board Certified Criminal Investigator

*Moderator: Heidi L. Moos, D.M.D.*

- Identify areas of exposure.
- Describe how to protect your business and to safeguard your practice from employee theft, whether it be through embezzlement or the actual physical taking of supplies and equipment; or the stealing of the identity of patients.
- Establish protocol for accountability of each employee.

## PB-12: New Practitioner Checklist – A Guide for Integrating Business and Personal Concerns When Starting a Practice

### Chesapeake J

Gorganna Randolph, M.B.A.

Jeffrey E. Wherry, C.F.P., C.L.U., Ch.F.C.

*Moderator: David C. Funderburk, D.D.S., M.S.*

- List the choices to consider for the business plan and the steps to set up an endodontic practice.
- Discuss the pyramid approach to financial planning and the steps to establish a firm financial foundation upon which future planning is built.
- Integrate business and personal decision making into a directed plan for long-term success.

## PD-9: ABE Boardwalk

### Chesapeake 3

Patrick E. Taylor, D.D.S., M.S.D.

*Moderator: John F. Hatton, D.M.D.*

- Describe the different levels of candidate status for Board certification.
- Describe the sequence and timelines for examinations required for endodontic Board certification.
- List the requirements for recertification.

*Planned by the American Board of Endodontics to facilitate and encourage the Board certification process.*

## PS-5: What You Don't Know Can Hurt You

### Chesapeake G

Ginny Hegarty, SPHR

*Moderator: Michele M. Whitley*

- List the most common employment law pitfalls that prove so costly for dentists.
- Describe the best HR strategies to protect your investment in your dental practice.
- Describe how a practice manual can provide the leadership framework for team development and practice growth.

## S-5: Influence of Stress, Inflammation and Gender on Surgical Wound Healing

### National Harbor 5

Christopher G. Engeland, Ph.D.

*Moderator: Nermeen M. Moussa*

- Explain the mechanisms through which chronic stress can dysregulate inflammatory responses and immunity.
- Describe how a variety of factors (e.g., stress, age, gender, menopause, corticosteroids) modulate oral mucosal wound healing.
- Explain the differences in tissue repair between dermal and mucosal tissues, and how each is modulated by stress, age and gender.



## 10:30 a.m. – noon (continued)

### S-6: Tissue Management and Crown Lengthening for Anterior Implant Esthetics

#### Maryland B

Joseph Y. Kan, D.D.S., M.S.

*Moderator: Lars Bjorn Jonsson, D.D.S., M.S.*

- Identify prognostic variables for predictable anterior implant esthetics.
- Discuss delay versus immediate implant placement.
- Discuss how crown lengthening and soft tissue managements can benefit interdisciplinary cases.

### SP-10: Educator Forum: Flip Your Class: Design a Successful Learning Environment for Your Students

#### Maryland 4

Barbi Honeycutt, Ph.D.

*Moderator: Roberta Pileggi, D.D.S., M.S.*

- Analyze current definitions and models for the flipped class.
- Design a flipped lesson and discover “flipable” moments.
- Identify the skills you need to develop to ensure the flipped class is successful.

*Planned by the Educational Affairs Committee to meet the specific needs of endodontic educators. Includes brief ADEA Endo Section business meeting.*

### SP-8: To Biopsy or Not to Biopsy: That Is Still the Question

#### Chesapeake 6

Carl W. Newton, D.D.S., M.S.D.

Richard E. Walton, D.M.D., M.S.

*Moderator: Kenneth J. Spolnik, D.M.D., M.S.D.*

- Discuss the principles that rationalize the obtaining of a biopsy of diseased tissue.
- Justify whether the obtaining of a biopsy should be routine, or conversely, dependent upon existing factors.
- Describe those diseases that can be identified best by biopsy and the frequency these would be disclosed as part of root-end surgery.

### SP-9: Magnetic Resonance Imaging – The Next Big Thing?

#### Maryland C

Frank C. Setzer, D.M.D., M.S., Ph.D.

*Moderator: Rachel A. McKee, D.M.D.*

- Discuss the principles and operating mechanisms of MRI.
- Describe the advances in MRI technology that allow for a future application in a wider range of medical specialties.
- Discuss the potential and the possible future applications in endodontics.

### ST-5: Saving Teeth: When Not To National Harbor 12

Nicola Ursula Zitzmann, D.D.S., Ph.D.

*Moderator: Jordan L. Schweitzer, D.D.S., M.S.*

- Conduct the strategic considerations in treatment planning.
- Decide when to treat, extract or replace a questionable tooth.
- Perform adequate implant treatment planning taking alternative restorative options into account.

### ST-6: Saving Teeth: Psychosocial Value Chesapeake A

Shane N. White, B.D.Sc., M.S., M.A., Ph.D.

*Moderator: Karl F. Woodmansey, D.D.S.*

- Describe the factors affecting patient perception of root canal treatment.
- Explain how to improve the patient experience.
- Communicate the reasons why root canal treatment is valuable.

## 1:30 – 3 p.m.

### FD-8: Irrigation/Endodontic Disinfection in the Future

#### National Harbor 3

Kishor Gulabivala, B.D.S., M.Sc., Ph.D.

*Moderator: Natanya Padachey, D.D.S.*

- Describe the fluid dynamics challenges of root canal irrigation.
- Describe the interaction between irrigant and the root canal system (and its contents).
- Describe practical solutions to effective delivery of irrigants to the biofilms.

### FD-9: Periapical Responses and Regulation: The Immunological Perspective

#### Maryland C

Philip Stashenko, D.M.D., Ph.D.

*Moderator: Jianing He, D.M.D., Ph.D.*

- Describe the major immune mechanisms that are activated in the pulp and periapical region by infections of the dental pulp.
- List the immunological mechanisms/pathways that protect the host against pulpal and orofacial bacterial infections.
- List the immune and inflammatory mechanisms that contribute to bone and soft tissue destruction following pulpal infection.



## NS-21: The Ins and Outs of Nickel-Titanium Metallurgy and Mechanical Properties Maryland 1

Sanjay Govindjee, Ph.D., P.E.

Moderator: Ove A. Peters, D.M.D., M.S., Ph.D.

- Discuss the physics behind the unique properties of Nickel-Titanium and other shape memory alloys.
- Describe basic models for reasoning about the thermomechanical behavior of shape memory alloys.
- Discuss the mechanical limits and failure mechanisms of Nickel-Titanium alloys and other shape memory materials.

## NS-22: Changing Trends in Nonsurgical Endodontics: What Are We Teaching the Next Generation? Maryland 4

Sami M.A. Chogle, B.D.S., D.M.D., M.S.D.

Stephen B. Davis, D.D.S.

Robert A. Handysides, D.D.S.

Roberta Pileggi, D.D.S., M.S.

Fabricio B. Teixeira, D.D.S., M.S., Ph.D.

Moderator: Asgeir Sigurdsson, D.D.S., M.S.

- List technological changes that directly impact residency programs.
- Describe the strategies with which recent graduates have to cope in the endodontic marketplace.
- Discuss some of the possible future changes for endodontic residency programs.

## PB-7: Vital Pulp Therapy Following Trauma to Immature Teeth Maryland A

Nestor Cohenca, D.D.S.

Franklin Garcia-Godoy, D.D.S., M.S., Ph.D.

Moderator: Thomas A. Montagnese, D.D.S., M.S.

- List the indications and contraindications for vital pulp therapy.
- Discuss the conditions for successful vital pulp therapy.
- Describe how to manage traumatized immature teeth.

## PD-13: Negotiating Commercial Leases and Renewals for Dummies

### Chesapeake G

Dale Willerton

Moderator: Anthony T. Borgia, D.D.S., M.H.A.

- Explain how to negotiate an offer to lease or lease renewal.
- Explain how to recognize faulty lease clauses.
- Discuss the full leasing process from start to finish.

## PS-6: How HIPAA, HITECH and Identity Theft Impact the Entire Team

### Chesapeake J

Linda Harvey, R.D.H., M.S., L.H.R.M.

Moderator: Sara J. Rundle

- Discuss the HITECH Act and how it impacts your practice.
- Describe key components of the HIPAA Privacy and Security Regulations.
- Assess your current level of compliance and develop an action plan for closing privacy and security gaps.

## S-7: GTR Procedures and Materials in Endodontic Surgery

### National Harbor 5

Scott B. McClanahan, D.D.S., M.S.

Moderator: Paul A. Lindauer, D.D.S.

- Describe the indications and contraindications for guided tissue regeneration in endodontic surgery procedures.
- Describe the indications, rationale and objectives of ridge preservation procedures.
- Describe the use of regenerative techniques in the endodontic surgical procedures of ridge preservation, managing large apical lesions and managing sinus exposures.

## S-8: Endodontic Surgery: Enhanced Outcome Thanks to Optimized Diagnostics

### Maryland B

Thomas C. Von Arx, D.M.D., Ph.D.

Moderator: Vladana Babacic, D.M.D., M.S.

- Discuss the long-term outcome of endodontic surgery.
- Describe the benefit of using CBCT in case planning and selection.
- Discuss the advantage of endoscopy during apical microsurgery.

## SOFTWARE USER GROUPS

1:30 – 3 p.m.

TDO

Chesapeake 9

PBS Endo

Chesapeake A

3:30 – 5 p.m.

Endo Trak

Chesapeake 9

EndoVision

Chesapeake A



## 1:30 – 3 p.m. (continued)

### SP-11: How to Build a Strong Case History Portfolio for the ABE Examination

#### Chesapeake 3

Christopher S. Wenckus, D.D.S.

*Moderator: Yichen Wei, D.M.D.*

- Describe and define the 10 types of cases required for the portfolio.
- Explain what are and what are not proper radiographs for inclusion in the portfolio.
- Describe the grading system the Board uses to evaluate portfolios.

### SP-12: AAE's Pathognomonic Combination for Vertical Root Fracture Diagnosis: Is the Evidence Based?

#### Chesapeake 6

Aviad Tamse, D.M.D.

*Moderator: Rebekah Lucier Pyles, D.M.D.*

- Discuss the pathognomonic combination of signs and symptoms to diagnose vertical root fractures in endodontically treated teeth.
- Describe the current difficulties and future directions to achieve accurate diagnosis of vertical root fractures in a timely manner.
- Explain the lack of evidence-based data to support the usefulness of the current clinical and radiographic evaluation methods for vertical root fracture diagnosis.

### ST-7: Saving Previously Treated Teeth

#### National Harbor 10

Mahmoud Torabinejad, D.M.D., M.S.D., Ph.D.

Shane N. White, B.D.Sc., M.S., M.A., Ph.D.

*Moderator: John D. Regan, B.D.Sc., M.S., M.A.*

- Identify the cause(s) of non-healing of initial root canal treatment.
- Enumerate treatment options when non-healing occurs.
- Discuss the outcomes of surgical and nonsurgical treatment options following non-healing of initial treatment.

### ST-8: Saving Teeth: Completing the RCT by Protecting Your Endodontic Treatment

#### National Harbor 12

Fred S. Tsutsui, D.M.D.

*Moderator: Paul G. Satchell, D.D.S., M.S.*

- Describe methods, techniques and references to temporarily or permanently protect endodontic treatment efforts.
- Approach and discuss with the referring restorative dentists about the importance of protecting the endodontic treatment and why the endodontist is best suited for this.
- Describe how communication between the endodontist's and the restorative dentist's office staff can enhance future referral of patients.

## 1:30 – 5 p.m.

### NS-23: CBCT Workshop

#### Potomac 1

Madhu K. Nair, D.M.D., M.S., Ph.D.

*Moderator: David C. Goerig, D.D.S., M.S.*

*Fee: \$495 early/\$645 standard*

- Demonstrate the use of different viewing software for cone beam CT studies.
- Discuss terminology used in interpretation of CBCT studies.
- Define optimal image reconstruction parameters for diagnostic purposes.

### ST-10: Hands-On Workshop – Restoration of Endodontically Treated Teeth with Bonded Cores and Fiber Posts

#### Potomac 4

Jorge Perdigao, D.M.D., M.S., Ph.D.

*Moderator: Catherine E. Wurm, D.D.S., M.S.*

*Fee: \$495 early/\$645 standard*

- List the advantages and disadvantages of using fiber posts to restore endodontically treated teeth.
- Use adhesive techniques to bond fiber posts to root canal dentin.
- Use adhesive techniques to construct composite resin build-ups.

## 3:30 – 5 p.m.

### NS-24: NiTi Metallurgy: Clinically Relevant?

#### Maryland 1

Satish B. Alapati, B.D.S., M.S., Ph.D.

*Moderator: Ya Shen, D.D.S., Ph.D.*

- Describe advances in the metallurgy of NiTi rotary instruments.
- Demonstrate and differentiate between shape memory and superelasticity.
- Interpret the clinical translation and relevance of phase transformation processes in NiTi rotary instruments during shaping of root canal space.

### PB-8: Dental Trauma and Vital Pulp Therapy

#### Maryland A

Frederic Barnett, D.M.D.

*Moderator: Jonathan J. Madras, D.D.S.*

- Discuss the pulp reaction to exposure from trauma.
- Discuss the pulp reactions to capping materials.
- Describe the various materials for successful apexogenesis.



## PD-14: The Physician Payment Sunshine Act: What It Means for You

### Chesapeake B

Andrew R. VanHaute, Esq.

Moderator: Patrick E. Dahlkemper, D.M.D.

- Discuss the fundamental requirements of the Physician Payment Sunshine Act - including who is covered, what will be reported and how the dispute resolution process works.
- Identify key questions to ask device and equipment suppliers about their relationships and how those relationships should be structured.
- Discuss the basic tenets of the AdvaMed Code of Ethics and why AdvaMed members who have adopted the Code interact with endodontists accordingly.

## PS-7: Developing a Systematic Approach to Training Endodontic Assistants and Staff

### Chesapeake G

Kimberly A.D. Lindquist, D.D.S., M.S.D.

Michael G. Stevens, D.D.S.

Moderator: Michael S. Austin, M.B.A.

- Describe what to look for when hiring a dental assistant and how to help him/her develop into a "team" player.
- Use a written policy and systems manual to clarify and train the entire staff.
- Describe an effective staff meeting and how to use staff meetings for team training and development.

## PS-8: Practice Marketing Roundtable

### Chesapeake J

Jennifer Gibson, AAE PR Manager

Julie A. Handy, Professional Relations Coordinator

Moderator: Kevin Conroy

- Use existing AAE materials to develop a marketing plan to build relationships with general dentists and increase referrals.
- Identify your individual practice's key selling points and ways to communicate them to general dentists.
- Describe best practices and strategies for outreach to general dentists.

*Planned by the AAE Public and Professional Relations Committee, this session highlights the practical applications of the AAE Professional Outreach Toolkit, presents real-life examples and encourages an exchange of ideas.*

## S-9: Outcome Expectations in Apical Microsurgery

### National Harbor 3

Shimon Friedman, D.M.D.

Moderator: Jonathan C. Ee, D.D.S., M.S.

- Identify the studies comprising the current best evidence for apical microsurgery.

- Summarize the prognosis for periapical healing and functional retention after apical microsurgery.
- List the clinical factors that influence the prognosis after apical microsurgery.

## S-10: Interactive 3D Models for Dental Anatomy Education and the Future of Virtual Reality Simulation in Dentistry

National Harbor 5

Eric J. Herbranson, D.D.S., M.S.

Moderator: Yaara Y. Berdan, D.D.S.

- Describe the general technology behind 3D computer imaging including its acquisition, visualization and uses.
- Discuss the current use of 3D imaging in dental education, patient education and patient care.
- Identify developing 3D technologies in dentistry and predict their value in education and patient care.

## S-11: Root-End Filling Materials - Does it Make a Difference?

### National Harbor 10

Mahmoud Torabinejad, D.M.D., M.S.D., Ph.D.

Moderator: Michael J. Mintz, D.D.S.

- Enumerate the ideal properties of root-end filling materials.
- Compare the results of in vitro as well as in vivo tests of these materials.
- Discuss the outcomes of endodontic surgical treatment with different root-end filling materials.

## S-12: The Use of Regenerative Techniques in Endodontic Surgery

### Maryland B

Thomas C. Von Arx, D.M.D., Ph.D.

Moderator: Anibal R. Diogenes, D.D.S., M.S., Ph.D.

- Describe the regenerative techniques available in endodontic surgery.
- Discuss the benefit of using regenerative techniques in endodontic surgery.
- List the data from the current literature that support or deny the use of regenerative techniques.

## SP-13: Completing the Journey: A Guide to the Entire ABE Exam Process by Two Recent Diplomates

### Chesapeake 3

Lester J. Quan, D.D.S.

Anthony T. Tran, D.D.S.

- Discuss the contents of the 2014 Study Guide.
- Explain how to develop your own ABE preparation and test-taking strategies.
- Discuss how to assemble and write a successful 10-case portfolio.





## 3:30 – 5 p.m. (continued)

### SP-14: The Mouth-Body Connection: An Endodontic Perspective

#### Chesapeake 6

Wafaa Abdelbaky Khalil, Ph.D.

Khaled Abdullah Balto, B.D.S., D.M.Sc.

*Moderator: Matteo Sferlazzo, D.M.D.*

- Identify the oral targets for manifestation of some systemic diseases.
- Define the association of oral infection with systemic illness and describe the risk factors of oral infection on systemic diseases.
- Define the systemic toxicity of endodontic materials and determine the ways through which they can reach the distant organs and cause adverse effects.

### SP-15: Challenges in Teaching Endodontics in the Developing World: A Case Report on the West and Central African Regions

#### Maryland 4

Mbachan Collins Okwen, D.D.S., M.B.A.

Samuel O. Dorn, D.D.S.

*Moderator: John W. Gillan, D.D.S., M.S.*

- Explain the value of introducing endodontics in new territories.

- Identify/visualize challenges facing endodontic education in West and Central Africa and how educators are leading the fight to overcome them.
- Discuss the role of endodontics in a developing public health system.

### ST-9: Saving Single Teeth through RCT and Restoration

#### National Harbor 12

Nico H.J. Creugers, D.D.S., Ph.D.

*Moderator: Shane N. White, B.D.Sc., M.A., M.S., Ph.D.*

- Interpret and apply available knowledge from the dental literature regarding tooth preservation or tooth extraction in clinical decision making
- Apply available knowledge from dental literature regarding the restoration of RCT teeth in clinical decision making.
- Assess the impact of clinical decisions regarding tooth preservation and/or tooth extraction for functional dentitions.

## SATURDAY

### 8:30 – 10 a.m.

### FD-10: Dentin Pulp Regeneration by Cell Homing

#### Chesapeake A

Jeremy Mao, D.D.S., Ph.D.

*Moderator: Sahng Gyoon Kim, D.D.S., M.S.*

- Describe the basics of stem cells and their implications in orofacial regeneration.
- List fundamental challenges and strategies in dentin and pulp regeneration.
- Describe challenges associated with translation of scientific discoveries into dental practice.

### NS-25: What is Relevant to Root Canal Disinfection

#### National Harbor 5

Nestor Cohenca, D.D.S.

*Moderator: Markus Haapasalo, D.D.S., Ph.D.*

- Discuss the microbiological and anatomical challenges that play a critical role in our ability to obtain disinfection.
- Review all the classic and contemporary techniques, instruments and materials we have to overcome those challenges and achieve predictable and safe disinfection.
- Discuss the importance of infection control to increase endodontic outcome.

### NS-26: Endodontic Success: What Does Research Tell Us?

#### National Harbor 10

Kishor Gulabivala, B.D.S., M.Sc., Ph.D.

Yuan-Ling Ng, B.D.S., M.Sc., Ph.D.

*Moderator: Anibal R. Diogenes, D.D.S., M.S., Ph.D.*

- Describe the level of available evidence on root canal treatment.
- Describe and explain the factors affecting outcomes of root canal treatment.
- Describe a contemporary protocol for root canal treatment based on current best evidence.

### NS-27: Dental Pulp in Health and Disease

#### Chesapeake D

Fionnuala Lundy, B.Sc. Ph.D.

*Moderator: Avina K. Paranjpe, B.D.S., M.S., M.S.D., Ph.D.*

- Outline the peptidergic innervation of the dental pulp.
- List members of the transient receptor potential (TRP) channel family and indicate their activation by chemical, mechanical or thermal stimuli.
- Describe the role of proteinase-activated receptors in dental pulp inflammation.



## PB-9: Imaging Updates and Case Presentations – Focused Field CBCT in Endodontics

### National Harbor 3

James D. Johnson, D.D.S., M.S.

Gurminder Sidhu Uppal, B.D.S., D.D.S., M.S.

*Moderator: Mark A. Limosani, D.M.D., M.Sc.*

- List the advances in focused field CBCT technology.
- Define the clinical applications and appropriate case selection for using CBCT scans. Discuss the pitfall in interpreting CBCT images.
- List the updated radiation dose of currently available focused field of view CBCT units

## PS-9: Business Etiquette and People Skills

### Chesapeake J

Nancy Mitchell, The Etiquette Advocate

*Moderator: Lisa A. Romano, TDA*

- Define and demonstrate active listening techniques.
- Discuss the role that body language plays in nonverbal communication.
- Learn key elements of behavior that make others feel welcome and respected.

## SP-16: Clinical Decisions in Managing Challenging Anatomy

### Chesapeake 6

Michael S. Marmo, D.M.D.

*Moderator: Michael J. Kang, D.M.D.*

- Discuss anatomic challenges, including oval-shaped canals and isthmuses that limit the effect of nickel-titanium cleaning and shaping techniques.
- Compare the strengths and weaknesses of different rotary file systems that attempt to address these challenges.
- Evaluate the effectiveness of current irrigation systems and protocols in managing this challenging anatomy.

## SP-17: Determining and Maintaining the Correct Dimensions in Endodontic Treatment

### Chesapeake G

Carlos A. Spironelli Ramos, D.D.S., M.S., Ph.D.

*Moderator: Greg A. Burk, D.D.S.*

- Determine electronically the cleaning (patency) working length and the shaping working length.
- Maintain adequate working lengths throughout the shaping procedure.
- Select preparation dimensions and overall geometries that allow adequate disinfection and subsequent obturation.

## SP-18: Endodontic Curve Balls

### Maryland A

Le O'Leary, D.D.S.

Yoshi Terauchi, D.D.S., Ph.D.

Kenneth W. Tittle, D.D.S., M.S.

*Moderator: Brian D. Jafine, D.D.S.*

- Discuss the different considerations in the diagnosis of difficult endodontic cases.
- Discuss the treatment of challenging endodontic cases.
- Discuss new techniques in the removal of separated instruments.

## SP-19: New Advances in Mechanical Instrumentation to Control Intracanal Infection

### Maryland B

Gilberto J. Debelian, D.M.D., Ph.D.

*Moderator: Michael A. Aregbesola*

- Discuss the biological requirements for successful endodontics.
- Discuss the role of mechanical instrumentation in controlling intracanal infection and facilitating the effects of irrigation and intracanal medication in disinfecting the root canal.
- Describe the technological advances in endodontic instruments to more predictably remove intracanal infection.

## ST-11: Saving Teeth: Predictability and Prognosis



### National Harbor 12

Nadia Chugal, D.D.S., M.S., M.P.H.

*Moderator: Shane N. White, B.D.Sc., M.S., M.A., Ph.D.*

- Describe the natural history of the endodontically treated tooth.
- Identify and discuss the effects of biologic and treatment factors that promote favorable prognosis and the effect on treatment outcomes.
- Identify and discuss the effects of biologic and treatment factors that deter favorable outcomes and how they affect clinical decision making.

**8:30 – 11:45 a.m.**

## PD-15: Are You Flipped, Inverted or Prezi? A Workshop to Improve Your Presentations



### Potomac 1

Yaara Y. Berdan, D.D.S.

Thomas A. Levy, D.D.S., M.S.

*Moderator: Kimberly A.D. Lindquist, D.D.S., M.S.D.*

*Fee: \$25 early/\$50 standard*

- Plan and design an effective presentation.
- List other presentation formats other than PowerPoint.
- Utilize presentation tips that will keep your audience engaged throughout the presentation.



**8:30 – 11:45 a.m. (continued)**

## **S-13: Prevention and Management of Surgical Complications**

### **Maryland C**

Syngcuk Kim, D.D.S., Ph.D.

Samuel I. Kratchman, D.M.D.

*Moderator: Richard A. Munaretto, D.D.S.*

- Describe how to treatment plan endodontic microsurgery to be able to properly position the patient, microscope and operator during surgery.
- List the possible complications of surgery, such as damage to the mental nerve or maxillary sinuses, and how to manage these.
- Describe if and when bone grafting and guided tissue regeneration are needed in the combined endo/perio lesions.

**10:15 – 11:45 a.m.**

## **FD-11: Dentin Pulp Regeneration Signals and Their Modulation by the Local Microenvironment and Restorative Materials**



### **Chesapeake A**

Imad About, Ph.D.

*Moderator: Maobin Yang, D.D.S., M.D.S., Ph.D.*

- Describe the interactions taking place between the dentin and underlying pulp and between different cell types within the pulp and their consequences to the pulp dentin regeneration.
- Make the right choice for the restorative procedures particularly in vital pulp therapy.
- Discuss the real link between inflammation and regeneration and explain that the regeneration is a very early event and almost concomitant with the inflammation process.

## **NS-28: Quo Vadis Root Canal Disinfection? National Harbor 5**

Nikolaos S. Soukos, D.D.S., Ph.D.

*Moderator: Anita Aminoshariae, D.D.S., M.S.*

- Review the current status of root canal disinfection.
- Discuss the role of emerging methodologies for endodontic disinfection.
- Introduce photodynamic therapy (PDT) as an adjunctive technology to standard chemo-mechanical debridement for more effective endodontic disinfection.

## **NS-29: Retreatment, in the Era of Implants?! National Harbor 10**

Shimon Friedman, D.M.D.

*Moderator: Terry D. Webb, D.D.S., M.S.*

- Describe current strategies for case selection for retreatment or tooth extraction and replacement.

- Recognize the least destructive retreatment techniques that can be used to preserve tooth structure and restorations.
- Define the expected long-term outcomes of retreatment in teeth with persistent lesions.

## **NS-30: Outcomes for Diabetic Patients: The Facts**

### **Maryland A**

Ashraf F. Fouad, D.D.S., M.S.

*Moderator: Kenneth N. Namerow, D.D.S.*

- Describe the effect of diabetes mellitus on pathogenesis of endodontic disease.
- Describe the effect of diabetes on healing following endodontic treatment.
- Describe the available information on the effects of endodontic disease on glycemic control of the host.

## **PB-10: Pain Control for the “Hot” Mandibular Molar: The Endodontist’s Dilemma**

### **National Harbor 3**

Stanley F. Malamed, D.D.S.

*Moderator: Jonathan S. Rapp, D.D.S.*

- Compare the clinical attributes of currently available local anesthetic formulations.
- Describe each of the following mandibular anesthetic techniques: IANB, Gow-Gates, Akinosi-Vaznerani, Incisive.
- Describe the mechanism behind the increased efficacy of buffered local anesthetic solutions.

## **PS-10: Decoding the Codes 2014: What’s New?**

### **Chesapeake J**

Ali Behnia, D.M.D., M.S.

Elizabeth S. Perry, D.M.D.

Kenneth B. Wiltbank, D.M.D.

*Moderator: William D. Powell, D.D.S., M.S.*

- List the significant changes to the endodontic codes in CDT 2014.
- Demonstrate how to handle common coding issues.
- Describe how to use the new codes.

*Planned by the AAE Professional Affairs Committee.*

## **SP-20: Management of Calcified Root Canals**



### **Chesapeake 6**

Helmut Walsch, D.D.S., M.S., Ph.D.

*Moderator: Maximilian S. Lin, D.D.S.*

- Determine the specific challenges of individual cases and estimate their expected extent.
- Evaluate various strategies and describe when and how to apply them.
- Implement immediately the correct strategies successfully in clinical practice.



## SP-21: Endodontics and Systemic Diseases: What You Need to Know Today Chesapeake D

Elisabetta Cotti, D.D.S., M.S.

*Moderator: Brooke Blicher, D.M.D.*

- Evaluate the actual risk of endodontic infection with respect to systemic health.
- Discuss the chronic diseases that require new medications which can affect endodontic treatment.
- Perform the strategies to overcome possible complications arising from these systemic situations.

## SP-22: Contribution of New Technologies to the Understanding of Complex Root Canal Anatomy and Effective Endodontic Treatment Chesapeake G

Raney J. Deschenes, D.M.D., M.S.

Ali Nosrat, D.D.S., M.S.

*Moderator: Michael T. Reynolds, D.D.S.*

- Describe anatomical variations that are problematic to identify and treat effectively.
- Describe newer technologies to aid in detection and treatment of complex anatomies.
- Describe an overall approach to utilize these newer technologies successfully in complex anatomies.

## ST-12: Saving Teeth Using Medicinal Signaling Pathways That Emulate Development



### National Harbor 12

Malcom Snead, D.D.S., Ph.D.

*Moderator: Shane N. White, B.D.Sc., M.S., M.A., Ph.D.*

- Identify the normal developmental pathways for homeostasis.
- Identify pathways useful to repair and regeneration that can be controlled by medicinal activators and inhibitors.
- Identify immune effectors and host defense genes involved in repair and regeneration of neural crest-derived cells.

**1:45 – 3:15 p.m.**

## FD-12: Managing the Dentin-Root Filling Material Interface in Endodontics Maryland C

Marcela Carrilho, D.D.S., Ph.D.

- Identify the different types of dentin-material interfaces created by some contemporary dental materials designed for use inside root canals.
- Describe the different mechanisms involved in the creation of these specific dentin-material interfaces.
- Discuss the durability of these dentin-material interfaces and currently available strategies to improve the durability of these interfaces.

## NS-31: Irrigation Enhancement and Clinical Outcomes

### National Harbor 5

Anil Kishen, B.D.S., M.D.S., Ph.D.

Shimon Friedman, D.M.D.

*Moderator: Nestor Cohenca, D.D.S.*

- Discuss the clinical challenges and therapeutic considerations in elimination of endodontic biofilms.
- Discuss the current status of different advanced treatment strategies to eliminate endodontic biofilms.
- Discuss the requirements for current best evidence to support the impact of root canal disinfection interventions on clinical treatment outcome.

## NS-32: Biocompatibility: A Survival Guide to Avoiding Adverse Events

### National Harbor 12

Cameron M. Howard, D.M.D., M.S.D.

Peter E. Murray, B.Sc., Ph.D.

Avina K. Paranjpe, B.D.S., M.S., M.S.D., Ph.D.

*Moderator: Sami M.A. Chogle, B.D.S., D.M.D., M.S.D.*

- Define how the biocompatibility of dental biomaterials are measured.
- Describe the types of adverse events and treatment failures that can occur due to a lack of dental biomaterial biocompatibility.
- Estimate the toxicity and biocompatibility of dental biomaterials according to their chemistry and identify which are least likely to cause an adverse event.

## PB-11: Clinical Regenerative Endodontic Procedures

### National Harbor 3

Martin Trope, D.M.D.

*Moderator: Melissa Marchesan, D.D.S., M.Sc., Ph.D.*

- List the essential requirements for successful regenerative procedures.
- Describe how new studies may alter the traditional methods to perform regenerative procedures.
- Describe when a new pulp can be predicted as opposed to new vital tissue.

## PB-12: Management of Traumatized Teeth National Harbor 10

Asgeir Sigurdsson, D.D.S., M.S.

*Moderator: Richard Gelman, D.M.D.*

- Describe the recommended emergency treatment for most common dental injuries.
- Describe possible late complications if correct treatment is not rendered.
- Describe the most common endodontic treatment considerations of traumatized teeth.

SATURDAY



**1:45 – 3:15 p.m. (continued)**

## **SP-14: Positioned for Success: The Surgeon-Patient-Microscope Dynamic Maryland B**

Stephen P. Niemczyk, D.M.D.

Moderator: Marc E. Levitan, D.D.S.

- Discuss proper surgical ergonomics and its influence on performance
- Discuss the importance of “virtual surgery” in the pretreatment assessment of access and positioning.
- Describe the changes in angulation and reflection and their influence on field visualization, incorporating techniques for enhancing the “line of sight” into the surgical and nonsurgical fields.

## **SP-24: Minimally Invasive Endodontics Using Photon-Induced Photoacoustic Streaming (PIPS) Chesapeake B**

Mohammed Al Shahrani, B.D.S.

Enrico E. DiVito, D.D.S.

Moderator: Kevin J. Burke, D.M.D.

- Recognize the differences between conventional laser applications and photoacoustic delivery.
- Describe the advantages and disadvantages of conventional passive and ultrasonic irrigation compared to photoacoustic laser-activated irrigation.
- Evaluate applications using laser-activated irrigation demonstrating effective debridement and disinfection of canals resulting in reduced chair-time.

## **SP-25: Problem-Based Learning in Endodontics – Learning from Success and Failure Chesapeake A**

Rodrigo S. Cunha, D.D.S., M.Sc., Ph.D.

Moderator: Chad A. Speirs

- Discuss different approaches for a specific clinical case.
- Differentiate scientific evidence from empiricism.
- Search for the highest level of evidence to guide clinical decision making.

## **SP-26: Surgical and Nonsurgical Retreatment Decision: Clinical and Evidence-Based Approach Chesapeake D**

Bekir Karabucak, D.M.D., M.S.

Meetu R. Kohli, B.D.S, D.M.D.

Moderator: Ruaa A. Alamoudi, B.D.S.

- Discuss the biological and technical reasons for failure of initial root canal therapy.

- Discuss the advantages and disadvantages of nonsurgical and surgical retreatment.
- Identify the studies evaluating the prognosis of the microsurgery and nonsurgical retreatment, interpret the evidence and feel confident in presenting the treatment option to patients during treatment planning.

## **SP-27: Locate and Create! Endodontic Office Start Up or Expansion Chesapeake G**

Timothy J. Temple, D.M.D.

Moderator: Mariana C. Alves, D.M.D.

- Identify resources and estimated budgets to assist you in starting up or expanding an endodontic practice
- Effectively locate, negotiate and create an endodontic office from scratch.
- Evaluate whether you should buy an existing endodontic office or build your own.

## **SP-28: The Interdisciplinary Endodontist: Are You Making the Right Decisions? Maryland A**

John D. West, D.D.S., M.S.D.

Moderator: Rafael A. Acosta, D.D.S.

- Apply the five endodontic determinants of endodontic predictability.
- Master technical skill sets that optimize endodontic performance.
- Develop a plan that makes your interdisciplinary decision-making skills indispensable.

**3:30 – 5 p.m.**

## **NS-33: Biofilm: Clinical Strategies for Its Removal National Harbor 5**

Markus Haapasalo, D.D.S., Ph.D.

Moderator: Craig S. Hirschberg, D.D.S.

- Explain why biofilm and biofilm microbes are much more resistant to treatment procedures than planktonic bacteria.
- Discuss how various mechanical and chemical approaches and use of new forms of physical energy help to clean the canal and how to optimize their use in the clinic.
- Explain how tooth structure and tooth chemistry are related to both the anti-biofilm strategies and to securing/restoring the strength of the tooth after the root canal treatment.





## **PB-13: Vital Pulp Therapy Guidelines National Harbor 12**

David E. Witherspoon, B.D.S., M.S., M.F.A.,  
F.I.C.D.

*Moderator: Taner C. Sayin, D.D.S., Ph.D.*

- Discuss the importance of tooth development and retention for long-term skeletal development.
- Describe the concepts for selecting teeth for various treatment options.
- Discuss the clinical application of various materials to pulpal tissue.

## **S-15: Seeing the Future of Microsurgical Endodontics**

### **Maryland B**

George A. Bruder, D.M.D.

*Moderator: Farah Assadipour, D.M.D.*

- Describe how technology can change what we see before and during surgical endodontics.
- Discuss the future of minimally invasive guided surgery.
- Disseminate advancements in the field.

## **SP-29: Chronic Fibrosing Osteomyelitis – Clinical and Histopathological Presentation of a Frequently Misdiagnosed Bone Disease**

### **Chesapeake 6**

William R. Adams, D.D.S., M.S.D.

Lawrence Goldblatt, D.D.S., M.S.D.

*Moderator: Kenneth J. Spolnik, D.M.D., M.S.D.*

- Order the appropriate imaging studies.
- Examine the patients clinically to rule in/out the possibility of CFO.
- Surgically manage a patient with CFO and expect a favorable outcome of pain relief.

## **SP-30: Spelunking 101 – To the Apex and Back**

### **Chesapeake A**

Stephen M. Weeks, D.D.S.

*Moderator: Neema B. Mehrkhodavandi, D.D.S.*

- Discuss the pitfalls and relative merits of electronic and radiographic methods of measuring root canal lengths based on considerations of root-end anatomy.
- Describe the most common sources of inaccuracy and inconsistency when using electronic devices to measure root canal length.
- Implement the use of electronic devices for root canal length measurement in routine clinical practice.

## **SP-31: Biological Principle of GTR in Endodontic Surgery**

### **Chesapeake D**

Louis M. Lin, B.D.S., D.M.D., Ph.D.

- Describe biological principle of membrane barriers, bone grafts or growth factors in endodontic surgery.
- List indications of GTR in endodontic surgery.
- Explain that GTR is to promote the rate of periapical wound healing rather than the long-term successful outcome of endodontic surgery in through-and-through periapical lesions.

## **SP-32: The Secrets to Effortless, Fun and Efficient Endodontics**

### **Chesapeake G**

Albert C. Goerig, D.D.S., M.S.

*Moderator: Manpreet S. Sarao, B.D.S., D.D.S., M.S.D.*

- Describe clinical tips to simplify and reduce treatment time.
- List the step-by-step process of how to reduce your days in the office while increasing profitability.
- Discuss the keys to eliminating all stress in your practice.



## Exhibit Hall Schedule

### Wednesday

**10 a.m. – 6 p.m.**

Exhibits Open

**5 – 6 p.m.**

Happy Hour – *Sponsored by Edge Endo*

### Thursday

**8 a.m. – 5 p.m.**

Exhibits Open

**11:30 a.m. – 1 p.m.**

Attendee Exhibit Hall Lunch

### Friday

**9 a.m. – 6 p.m.**

Exhibits Open

**5 – 6 p.m.**

Happy Hour and Foundation Live Auction –  
*Happy Hour Sponsored by Edge Endo*

The AAE Annual Session Exhibit Hall is among the largest gatherings of endodontic product and service suppliers in the world. Take advantage of this diverse marketplace to conduct your own research and transactions – special offers abound! Exhibitors are listed as of press time. For a complete exhibitor list and exhibit hall map, download the AAE Annual Session 2014 Mobile App this February, or visit [www.aae.org/annualsession](http://www.aae.org/annualsession).

Acadental	Engineered Endodontics	PBHS
Accurate Mfg, Inc.	Essential Dental Systems	PBS Endo
Acteon North America	Franklin Dental Supply, Inc.	Phase II Associates, LLC
American Dental Partners, Inc.	Gendex Dental Systems	Planmeca USA, Inc.
Angelus	Global Surgical Corp.	Prescott's, Inc.
Aseptico, Inc.	Hartzell & Son, G.	Protrain-Simit Dental
ASI Medical, Inc.	Hawaiian Moon	Q-Optics & Quality Aspirators
Axis/SybronEndo	Henry Schein Dental	Quintessence Publishing Co, Inc.
B & L Biotech USA	Hu-Friedy Mfg. Company	Radman, White & Associates, Inc.
Benco Dental	i-CAT Imaging Sciences	RGP Dental, Inc.
Bisco Dental Products	J. Morita USA	Romidan USA
Brasseler USA	JedMed Instrument Company	Roydent Dental Products
CareCredit	Jordco, Inc.	Schwed Co. Inc.
Carestream Dental	Komet USA	Seiler Instrument Co.
Clinician's Choice Dental Products Inc.	Labo America Inc.	Septodont
Coltene Endo	Laschal/Bimedix	Sirona Dental, Inc.
Dentalfone	Lexicomp, Inc.	Sonendo, Inc.
Dental USA	LumaDent	SS White
Dentalvibe	MANI, Inc.	Surgitel/General Scientific Corp.
DENTSPLY International	Medical Protective	TDO Software/eie2.com
DENTSPLY Maillefer	Medidenta	TransFirst Health Services
DENTSPLY Rinn	Meta Biomed, Inc.	Treloar & Heisel, Inc.
DENTSPLY Tulsa Dental Specialties	Microsurgery Instruments, Inc.	Tri Hawk Intl.
Designs For Vision, Inc.	Milestone Scientific	Ultimate Dental - A Division of Endoco
DEXIS Digital X-Ray	NOMAD By Aribex/Aribex, Inc.	Ultradent Products, Inc.
DSN Software, Inc.	Obtura Spartan	Vista Dental Products
Edge Endo	Onpharma	Wykle Research
Elsevier, Inc.	Orasoptic	XDR Radiology
Endo Technic	Osada, Inc.	Zeiss
EndoVision	Pacific Dental Services, Inc.	Zumax Medical Co., Ltd.
	Palisades Dental	
	Patterson Dental Supply, Inc.	

The AAE is grateful to the following sponsors, without whose support our event would not be possible!

## DENTSPLY TULSA DENTAL SPECIALTIES

Celebrate D.C.I., Mobile App, To the Point Presentation and Advertising Support

### Diamond Level



Attendee Lounge, Attendee WiFi, Art and Science of Nonsurgical Endodontics Educational Track, To the Point Presentation, Corporate Workshop and Advertising Support

### Platinum Level



## MORITA

Clinical Lunch-n-Learn, AAE Foundation Leadership Donor Reception, To the Point Presentation, Corporate Workshop and Advertising Support



Registration Bags, On-Site Meeting Guide and Advertising Support

For better dentistry



Edgar D. Coolidge Luncheon and Resident Awards

### Gold Level

## Ticket Sales

On-site ticket sales for AAE-sponsored events are final and must be purchased at least 24 hours prior to the event on a first-come, first-served basis.

Tickets for all attendees are required for the following:

- AAE Workshops (p. 9)
- Corporate Workshops (p. 9)
- Lunch-n-Learns (p. 34)
- Louis I. Grossman Luncheon (p. 33)
- Alliance Tour (p. 36)
- Crab Cake Making Demonstration (p. 32)

## Wednesday

### President's Breakfast and Keynote Speaker

**7 – 8 a.m. Continental Breakfast**

**8 – 10 a.m. Program**

Potomac Ballroom



**Gary R. Hartwell, D.D.S., M.S.**  
*President*



**James Bradley**  
*Keynote Speaker*

AAE President Dr. Gary R. Hartwell will greet attendees with the annual President's Address, and welcome *New York Times* bestselling author James Bradley. Mr. Bradley's book, *Flags of Our Fathers*, follows the lives of the five United States Marines and one United States Navy Corpsman who would eventually be made famous by Joe Rosenthal's lauded photograph of the flag raising at Iwo Jima, one of the costliest and most horrifying battles of World War II's Pacific Theater. Join us for what promises to be a compelling presentation!

### Crab Cake Making Demonstration

**1 – 3 p.m.**

Chesapeake 6

\$40 early/\$50 standard

Join the Gaylord Resort Chef as he demonstrates how to prepare one of the resort's most classic appetizers, the Petite Maryland Crab Cake with Roasted Pepper Aioli. You will walk away with the knowledge to create this delicious dish in your own kitchen at home.

*Co-sponsored by the AAE Alliance*

### Exhibit Hall Happy Hour

**5 – 6 p.m.**

Exhibit Halls ABC

End your first day of the meeting with a beverage, snack and lively interaction in the exhibit hall.

*Sponsored by Edge Endo*

### International Reception (*by invitation*)

**6 – 7 p.m.**

Potomac Ballroom Foyer

The AAE-hosted annual gathering welcomes international colleagues. International attendees will receive an invitation in their registration materials.

*Sponsored by Elsevier*

### Professional Staff Reception (*by invitation*)

**6 – 7 p.m.**

Maryland Ballroom Foyer

Celebrate the broad range of contributions that professional staff members bring to the endodontic office.

*Sponsored by Brasseler USA and EndoVision -Henry Schein, Inc.*



## Thursday

### 5K Fun Run and Walk 6 – 7 a.m.

Departs from Lower Atrium

Start your day with a healthy run or walk along the harbor with endodontic colleagues, family and friends. Maps will be available on race day.

*Sponsored by Sonendo, Inc.*

### Louis I. Grossman Luncheon 11:45 a.m. – 1:15 p.m.

Cherry Blossom Ballroom

\$55 early/\$65 standard

Sponsored by the College of Diplomates, this lunch program acknowledges endodontists who achieved Board certification during 2013.

### Exhibit Hall Lunch

11:30 a.m. – 1 p.m.

Exhibit Halls ABC

Enjoy lunch while networking with vendors in one of the largest endodontic exhibit halls in the world.



### Celebrate D.C.! 6 – 10:30 p.m.

The Newseum

555 Pennsylvania Ave. NW  
Washington D.C. 20001

Join your friends and colleagues and *Celebrate D.C.!* at The Newseum, located in the heart of Washington D.C. between the U.S. Capitol and the White House. The Newseum is one of Washington's most popular destinations, packed with interactive exhibits that explore how the news affects our shared experience of historic moments.

You won't want to miss this event, which merges the Welcome Reception and *Celebrate!* festivities into one memorable night of off-site entertainment!

**Please Note:** *This event is open to all registered attendees and registered guests. Your name badge is required for admission. Transportation will begin departing the Gaylord National Resort and Convention Center at 6 p.m.*

*Sponsored by the AAE and DENTSPLY Tulsa Dental Specialties*

## Friday

### General Assembly Breakfast 8:30 – 10 a.m.

Potomac Ballroom

The General Assembly is the AAE's annual business meeting. Hear the reports of AAE leaders, vote on important changes to the Constitution and Bylaws, and see the installation of new officers and Board members. All AAE members are encouraged to attend!

### Wine Pairing Demystified 10:30 a.m. – noon

Maryland D

Join Dr. Mitchel Krieger, Certified Sommelier, as he shares the fine points of wine pairing in this informative lecture.

### Resident and New Practitioner Career Fair 3:30 – 5 p.m.

Maryland D

If you are looking for the perfect job or trying to find that special endodontist who will match your organization's needs, the annual Career Fair gives you the leads you've been hoping for. Planned by the AAE Resident and New Practitioner Committee.

*Sponsored by Radman, White & Associates, Inc.*

### Exhibit Hall Happy Hour and Foundation Live Auction

5 – 6 p.m.

Exhibit Halls ABC

End your day with a stop in the exhibit hall for a lively happy hour and take part in a live auction benefiting the AAE Foundation.

*Happy Hour sponsored by Edge Endo*

### Resident Reception 5 – 6:30 p.m.

Maryland Ballroom C

Designed exclusively for the endodontic resident, this is a valuable opportunity for the newest members of the specialty to make professional connections and develop existing ones.

*Sponsored by Treloar and Heisel, Inc. and MedPro*

### AAE Foundation Leadership Donor Reception (by invitation)

7 – 8 p.m.

Lower Atrium

This invitation-only event honors the AAE Foundation's generous donors who have pledged at the Diamond level or higher.

*Sponsored by J. Morita USA*

## Friday Lunch-n-Learns

### Lunch-n-Learn: Clinical and Practice Management

**12:15 – 1:15 p.m.**

Exhibit Hall ABC

*\$0—Complimentary; registration is required!*

Join your colleagues and friends to discuss topics germane to practice development and clinical issues while earning CE credit. These interactive sessions are designed to allow you to compare notes with your fellow endodontists from around the globe. No preparation necessary; just be yourself and have a conversation on the topic that most interests you!

#### Clinical Topics and Facilitators:

- **Cracked Teeth** – Eric M. Rivera, D.D.S., M.S.
- **Is There a Link Between Oral Health and General Health?** – Amir Azarpazhooh, D.D.S., M.Sc., Ph.D., FRCD(C)
- **Traumatic Injuries** – Frederic Barnett, D.M.D.
- **Stem Cells and Regenerative Endodontics** – George T.J. Huang, D.D.S., M.S.D., D.Sc.
- **3D Cone Beam Imaging in Endodontics: A New Era in Diagnosis and Treatment** – Mohamed I. Fayad, D.D.S., M.S., Ph.D.
- **Vertical Root Fractures** – Eric M. Rivera, D.D.S., M.S.
- **New Approaches in Management of Endodontic Pain: Technology and Pharmacogenetics** – Pavel Cherkas, D.M.D., Ph.D.

*Clinical Lunch-n-Learn sponsored by J. Morita USA*

#### Practice Management Topics and Facilitators:

- **Building the Referral Relationship** – Jennifer Gibson, AAE PR Manager
- **HIPAA/OSHA Issues** – Linda Harvey, R.D.H., M.S., L.H.R.M.
- **HR Issues** – Ginny Hegarty, SPHR
- **Roadmap to Endodontics in the U.S. for Foreign Trained Dentists: An Overview** – Manpreet S. Sarao, BDS, DDS, M.S.D., Resident and New Practitioner Committee Chair
- **Building Wealth Through Creative Practice Transitions** – Kathleen E. Hamilton, D.D.S., M.B.A.
- **Office Fraud and Embezzlement** – J.D. Thomas
- **Lease Coaching** – Dale Willerton

*Practice Management Lunch-n-Learn sponsored by Phase II Associates, Inc.*

### Lunch-n-Learn: Endodontic Predoctoral Curriculum – Striving for Standardization

**12:15 – 1:15 p.m.**

Maryland D

*\$0—Complimentary; registration is required!*

Join fellow educators for this interactive round table discussion where the following five questions will be addressed:

- **How are competencies assessed at the predoctoral level in your school and can they be standardized?** – Patricia A. Tordik, D.M.D., University of Maryland
- **Should molars be taught at the predoctoral curriculum (e.g., molars vs. non-molars; using AAE Case Difficulty Assessment Form vs. other systems)?** – Fabricio B. Teixeira, D.D.S., M.S., Ph.D., University of Texas at San Antonio
- **How can vital pulpal therapy (e.g., pulpotomy, pulpectomy) be standardized in the predoctoral curriculum?** – Roberta Pileggi, D.D.S., M.S., University of Florida
- **How can the decreased number of cases at the predoctoral level and its impact on competencies be addressed?** – Richard D. Archer, D.D.S., M.S., Virginia Commonwealth University
- **How can emergency procedures be standardized in the predoctoral curriculum?** – Melissa M. Drum, D.D.S., M.S., The Ohio State University

*Planned by the Educational Affairs Committee*





## Saturday

### Edgar D. Coolidge Luncheon

Noon – 1:30 p.m.

Potomac Ballroom

Be part of the ceremonies to acknowledge the following winners of the most prestigious AAE Honors and Awards:



#### Edgar D. Coolidge Award

A. Eddy Skidmore, D.D.S., M.S.



#### Part-Time Educator Award

Robert W. Hawkinson Jr.,  
D.D.S., M.S.



#### Louis I. Grossman Award

Jose. F. Siqueira Jr., D.D.S.,  
M.Sc., Ph.D.



#### Lifetime Spirit of Service Award

Scott J. Hodges, D.D.S., M.S.



#### I.B. Bender Lifetime Educator Award

M. Lamar Hicks, D.D.S., M.S.



#### New Practitioner Spirit of Service Award

G. Matthew Brock, D.D.S., M.S.D.



#### Edward M. Osetek Educator Award

Melissa M. Drum, D.D.S., M.S.

The AAE/DENTSPLY Resident Awards, recognizing the top 10 oral and poster research presentations and table clinics, are also announced at this noteworthy event.

*Sponsored by DENTSPLY International*

## Greetings to all Annual Session Guests and Spouses/Significant Others,

As we welcome you to Washington D.C., the Alliance of the AAE draws upon its 57-year history of active participation in the Annual Session to offer a program of interesting and enjoyable activities.

Join us on Friday, May 2, for a water taxi ride across the National Harbor to Old Town Alexandria, Virginia. We will be taking a narrated historical Walking Food Tour, designed especially for our group, through this very charming area. Be sure to register early for this unique day, as it is sure to fill up. On Thursday morning, there will be an Alliance-sponsored "Coffee, Meet & Walk" at the Java Coast coffee cafe in the atrium of the Gaylord Resort. Casual and relaxed, this will be a nice chance to meet others for an hour or so of conversation, walking along the harbor, and networking, both personal and professional. The coffee and a breakfast treat are on us!

The Special Event Crab Cake Making Demonstration on Wednesday is co-sponsored by the Alliance. For cooks and non-cooks alike, this will be a great time to mingle and learn, relax and connect.

The Alliance 2014 is moving forward, adapting and refocusing to meet the changing times. Membership and dues are no longer required. For those of you familiar with us, thank you for your past participation and support. For those of you first attending an Annual Session, or new to Alliance activities, we welcome you and encourage you to join in any or all of the activities.

In partnership with the AAE, the Alliance promises a fantastic time for all participants at the Annual Session. Check the registration materials closely for activity details. Want updates, need a question answered, or like to get involved? Email your name and contact information to [infoallianceaae@gmail.com](mailto:infoallianceaae@gmail.com).

I look forward to greeting you in person,



**Shelley Zucker**

*President, Alliance of the American Association of Endodontists*

## Activities

All Alliance activities are open to spouses, partners and guests.

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### Wednesday

**Crab Cake Making Demonstration**  
(see page 32)

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### Thursday • 8 – 9:30 a.m.

**Coffee, Meet & Walk: Meet at Java Coast on Atrium Level**

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### Friday • 9:30 a.m. – 3:30 p.m.

**Old Town Alexandria Food and Walking Tour, Departs from Gaylord South Pier**

\$72 per person (includes water taxi transportation and meal)

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### Saturday • 8:30 – 10 a.m.

**Alliance Business Meeting, Light Breakfast will be Served**

Location will be provided on site.



To participate in any AAE Annual Session activity, you must register for one of the following packages. Registration fees are for the full conference. One-day and exhibit-hall-only registrations are not available.

**Tickets for the following activities are NOT included in any package:**

- AAE Workshops (fees vary, p. 9)
- Corporate Workshops (complimentary, p. 9)
- Lunch-n-Learns (complimentary, p. 34)
- Louis I. Grossman Luncheon (\$55 early/\$65 standard, p.33)
- Alliance Tour (\$72, p. 36)
- Crab Cake Making Demonstration (\$40 early/\$50 standard, p. 32)



**Save \$150**  
**Register by**  
**March 26**  
**for early**  
**rates!**

**Complete registration information, including package descriptions, the cancellation policy and attendee list, can be found online at [www.aae.org/annualsession](http://www.aae.org/annualsession).**

## Member Packages

The following packages include: Sessions and Exhibits, Coolidge Luncheon, President's Breakfast, Exhibit Hall Lunch and Happy Hours, General Assembly Breakfast and *Celebrate D.C.!*

- AAE Professional (\$945 early/\$1,095 standard)
- AAE Retired (\$473 early/\$623 standard)
- AAE Active 1st Year (\$473 early/\$623 standard)
- AAE Student (\$200 early/\$350 standard)
- AAE Professional Staff (\$200 early/\$350 standard)

## Nonmember Packages

The following packages include: Sessions and Exhibits, Coolidge Luncheon, President's Breakfast, Exhibit Hall Lunch and Happy Hours, General Assembly Breakfast, *Celebrate D.C.!*

- U.S. Professional Guest (\$1,678 early/\$1,828 standard)
- International Professional Guest (\$1,125 early/\$1,275 standard)
- Student Guest (\$1,125 early/\$1,275 standard)
- Professional Staff Guest (\$1,125 early/\$1,275 standard)

## Alliance/Spouse and Guest Packages

The following packages include: Sessions and Exhibits, *Celebrate D.C.!*

- AAE Alliance (\$125 early/\$200 standard)
- Guest (\$125 early/\$200 standard)
- Child (\$75 early/\$100 standard)

## Join the AAE and Save!

Join the AAE as a member today to be eligible for an AAE Professional, Student or Professional Staff package rate. Go to [www.aae.org/join](http://www.aae.org/join) for more information about the many benefits of AAE membership!

## Methods of Registration

**Online:** The quickest and most secure way for all attendees to register.

Go to [www.aae.org/annualsession](http://www.aae.org/annualsession) and click on "Register Now".

**Fax or Mail:** Download a Registration Form from [www.aae.org/annualsession](http://www.aae.org/annualsession), and follow the submission instructions on the form.

## Registration Deadlines

The early registration fee will be granted for registrations received by March 26, 2014. After this date, standard fees will apply. Registration forms will not be accepted after the early registration date but you may register online until April 20, 2014. After this date, you must register on site at the Registration and Information desk at the Gaylord Resort and Convention Center.

## Payment and Confirmation

Registration without complete payment cannot be processed. If you have an email address on file you will receive an electronic confirmation. If you have not received a confirmation within three weeks of submitting your registration, please contact the AAE. Badges and registration materials will be held for you in the AAE Registration and Information area at the Gaylord National Resort and Convention Center.

## Hotel Reservations

The AAE has reserved a block of guestrooms at the following official headquarters hotel:

**Gaylord National Resort and Convention Center**

201 Waterfront Street

National Harbor, MD 20745

Website: [www.gaylordnational.com](http://www.gaylordnational.com)

### Reservation Procedures

The AAE room block is reserved for registered meeting attendees. You will receive a link to the online reservation system upon completion of your meeting registration and in your email confirmation. **Phone reservations will not be accepted.**

### Rates

The following group rates will be offered to AAE Annual Session attendees until April 5, 2014 or until the room block is filled, whichever occurs first. After that time, rates and reservations will be subject to availability.

**Standard Room: \$265**

**Atrium View Room: \$305**

Rates apply to single/double occupancy and are subject to 16 percent local and state taxes. In addition, an \$18 per night resort fee will apply.

### Suites

A limited number of suites are available to AAE attendees at discounted rates. To inquire about suite options, please contact Stacia McCaul at 301/965-4021 or [smccaul@gaylordhotels.com](mailto:smccaul@gaylordhotels.com).

### Deposit/Cancellation Policy

A deposit (equal to room and tax for two nights) will be applicable at the time of reservation. This deposit will be fully refunded if the hotel receives notice of cancellation at least 10 days prior to the date of arrival.

## Travel And Transportation

### Air Travel

United Airlines is the preferred airline of the AAE, offering special meeting fares to attendees who use the meeting identification number to book their reservations. Book early and take advantage of the promotional fares that give you the greatest savings.

Online at [www.united.com](http://www.united.com)

Enter ZQR2846951 in the offer code box.

### Airport Transportation

Shuttle service can be arranged and taxis are available from all three nearby airports. Please see the AAE website for more information and links.

### Car Rental

Hertz is the AAE's preferred car rental company. In addition to the standard AAE member discount, you will save \$5 a day (up to \$25) when you rent a car in conjunction with this meeting.

To reserve a car, contact Hertz online or by phone, and refer to CV# 022Q6706

Online: [www.hertz.com](http://www.hertz.com)

Calling From the United States or Canada:  
800/654-2200

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### Parking

Valet parking is available at the Gaylord National Resort and Convention Center for \$35 per day. Self-parking is \$24 per day.

### Transportation to Washington D.C.

The Gaylord National Resort and Convention Center offers a variety of options to visit capital-area attractions. Daily shuttle service as well as private taxis are available for registered guests. Additional information can be found at [www.aae.org/annualsession](http://www.aae.org/annualsession).



Abbott, Paul V.....	15	Gutmann, James L.....	13	Ramos, Carlos A. Spironelli.....	25
About, Imad.....	26	Haapasalo, Markus.....	28	Randolph, GorgAnna.....	19
Adams, William R.....	29	Hale, Robert G.....	10, 15	Rivera, Eric M.....	11
Al Shahrani, Mohammed.....	28	Handy, Julie A.....	23	Rotstein, Ilan.....	17
Alapati, Satish B.....	22	Handysides, Robert A.....	21	Seaward, Brian Luke.....	11
Arola, Dwayne D.....	15	Hargreaves, Kenneth M.....	10, 13	Setzer, Frank C.....	20
Bader, James.....	14	Harvey, Linda.....	12, 14, 21	Shemesh, Hagay.....	16, 18
Balson, Marc.....	18	He, Jianing.....	17	Sidhu Uppal, Gurminder.....	25
Balto, Khaled Abdullah.....	24	Hegarty, Ginny.....	15, 17, 19	Sigurdsson, Asgeir.....	27
Barnett, Frederic.....	22	Herbranson, Eric J.....	23	Silva, Renato M.....	14
Behnia, Ali.....	19, 26	Honeycutt, Barbi.....	20	Smith, Anthony J.....	13, 14
Berdan, Yaara Y.....	25	Howard, Cameron M.....	27	Snead, Malcom L.....	27
Berman, Louis H.....	17	Hujoel, Philippe P.....	11, 15	Somerman, Martha J.....	10
Bogdanowicz, Harriet M.....	12	Jaramillo, David E.....	12	Soukos, Nikolaos S.....	26
Bogen, George.....	16	Johnson, James D.....	25	Stashenko, Philip.....	20
Bonilla, Carmen.....	14	Joshipura, Kaumudi.....	11, 14	Stevens, Michael G.....	23
Borgia, Anthony T.....	12, 18	Kan, Joseph Y.....	20	Tamse, Aviad.....	22
Boutsioukis, Christos.....	18	Karabucak, Bekir.....	28	Taylor, Patrick E.....	19
Bruder, George A.....	13, 29	Khalil, Wafaa Abdelbaky.....	24	Teixeira, Fabricio B.....	21
Carrillo, Marcela.....	27	Khan, Asma A.....	13	Temple, Timothy J.....	28
Chavez de Paz, Luis.....	11, 16	Kim, Sahng Gyoong.....	14	Terauchi, Yoshi.....	25
Cherkas, Pavel.....	16	Kim, Syngcuk.....	10, 13, 26	Thomas, J.D.....	19
Chogle, Sami M.A.....	21	Kishen, Anil.....	14, 27	Tittle, Ken W.....	25
Chugal, Nadia.....	25	Kohli, Meetu R.....	28	Torabinejad, Mahmoud.....	13, 22, 23
Cohenca, Nestor.....	13, 21, 24	Kratchman, Samuel I.....	16, 26	Tran, Anthony T.....	23
Cotti, Elisabetta.....	27	Kusienski, Margot T.....	17	Trope, Martin.....	16, 27
Craig, Ronald G.....	11, 17	Kuttler, Sergio.....	13	Tsutsui, Fred S.....	22
Cram, Sally J.....	11, 15, 17	Law, Alan S.....	17	VanHaute, Andrew R.....	23
Creugers, Nico H.J.....	24	Letra, Ariadne.....	14	Von Arx, Thomas C.....	21, 23
Cunha, Rodrigo S.....	28	Levine, Jon D.....	11	Walsch, Helmut.....	26
Davis, Stephen B.....	21	Levy, Thomas A.....	25	Walton, Richard E.....	13, 18, 20
Debelian, Gilberto J.....	25	Lin, Louis M.....	29	Webber, Julian.....	18
Deschenes, Raney J.....	27	Lindquist, Kimberly A.D.....	23	Weeks, Stephen M.....	29
DiAndreth, Matthew D.....	17	Lundy, Fionnuala.....	24	Wenckus, Christopher S.....	22
Dines, Tevyah J.....	17	Madison, Sandra.....	12	West, John D.....	28
Diogenes, Anibal R.....	12	Malamed, Stanley F.....	26	Wherry, Jeffrey E.....	19
DiVito, Enrico E.....	28	Mao, Jeremy.....	24	White, Shane N.....	10, 20, 22
Dorn, Samuel O.....	24	Marchesan, Melissa.....	12	Willerton, Dale.....	21
Drummond, James.....	15	Marmo, Michael S.....	25	Wiltbank, Kenneth B.....	26
Engeland, Christopher G.....	19	McClanahan, Scott B.....	21	Witherspoon, David E.....	29
Fayad, Mohamed I.....	13, 17	Mitchell, Nancy.....	25	Wolcott, James.....	12
Fouad, Ashraf F.....	16, 26	Moore, Paul A.....	13	Wolcott, Susan L.....	19
Friedman, Shimon.....	23, 26, 27	Mori, Katsuei.....	16	Zehnder, Matthias.....	11
Gambarini, Gianluca.....	16	Murray, Peter E.....	19, 27	Zent, Dennis J.....	19
Garcia-Godoy, Franklin.....	21	Nair, Madhu K.....	22	Zitzmann, Nicola Ursula.....	20
Gelman, Richard.....	12, 19	Nair, Umadevi P.....	15		
Gibson, Jennifer.....	23	Newton, Carl W.....	20		
Gittleman, Robert.....	12	Ng, Yuan-Ling.....	24		
Glick, Michael.....	10, 16	Niemczyk, Stephen P.....	28		
Gluskin, Alan H.....	18	Nosrat, Ali.....	27		
Goerig, Albert C.....	29	Okwen, Mbachan Collins.....	24		
Goldblatt, Lawrence.....	29	O'Leary, Le.....	25		
Goodacre, Charles J.....	12	Paranjpe, Avina K.....	17, 27		
Gosar, Paul A.....	19	Perdigao, Jorge.....	22		
Govindjee, Sanjay.....	21	Perry, Elizabeth S.....	26		
Graff-Radford, Steven.....	15	Peters, Ove A.....	18		
Graham, Michael.....	19	Pileggi, Roberta.....	21		
Gulabivala, Kishor.....	20, 24	Quan, Lester J.....	23		



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