San Diego, California
San Diego Convention Center
April 14 – 17, 2010

Earn up to 29 hours of CE credit!

ACCESS TO
APEX
EDUCATION
CARE

AAE '10
ANNUAL SESSION

AMERICAN ASSOCIATION OF ENDODONTISTS
The AAE, with support from Henry Schein Dental/Henry Schein Cares, is providing endodontic treatment to underserved patients in the San Diego community. Patients will be prescreened by local clinics and treated by volunteer endodontists licensed in California and endodontic residents from the University of Southern California in the USC’s Mobile Dental Clinic.

**Information on how to volunteer will be distributed in early 2010 – plan now to support this important effort!**
As one of the premier endodontic events in the world, the AAE Annual Session is constantly changing to meet your needs.

4 Full Days of Value

This year’s meeting is expanding to 4 full days of education, with the chance to earn 29 CE credits! Wednesday’s new program will be packed with sessions, including a special focus on hot topics and controversies in endodontics. There simply is no better value for the scope of skill and information available at this meeting – and if you’ve benefited from the Pre-Session Symposium in the past, you’ll appreciate our new, lower registration fee!

Health and Entertainment

Listen to best-selling author Chris Crowley as he explains how you too can be Younger Next Year, play with your kids at the first AAE Family Fun Night and enjoy celebrity comedian Jay Leno at the President’s Event in a new line-up of entertainment. Maintaining your health regimen at the meeting will be easier than ever, with daily StayFit! classes, the return of the AAE Fun Run/Walk and special posture evaluations.

Access to Care Project

Donating your time and talent demonstrates true leadership and advances our specialty. This all-day program will facilitate the delivery of endodontic care to underserved patients in the San Diego area.

Join us for an experience that isn’t available anywhere else.

Register for the 2010 Annual Session today!

www.aae.org/annualsession
**AAE BOARD OF DIRECTORS**

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<th>Position</th>
<th>Name</th>
<th>City, State</th>
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<tbody>
<tr>
<td>President</td>
<td>Gerald N. Glickman, D.D.S., M.S., M.B.A., J.D.</td>
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<td>Boynton Beach, Fla.</td>
</tr>
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**District II Directors**

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<tr>
<td>Gary R. Hartwell, D.D.S., M.S.</td>
<td>Newark, N.J.</td>
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<tr>
<td>Hank Schiffman, D.D.S.</td>
<td>New York, N.Y.</td>
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<tbody>
<tr>
<td>Sheldon R. Mann, D.D.S.</td>
<td>Sarasota, Fla.</td>
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**District IV Directors**

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<tr>
<th>Name</th>
<th>City, State</th>
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<tbody>
<tr>
<td>Martha E. Proctor, D.D.S., M.S.</td>
<td>Chicago, Ill.</td>
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<tr>
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<tbody>
<tr>
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<td>Wahiawa, Hawaii</td>
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**District VI Directors**

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<tr>
<td>David C. Funderburk, D.D.S., M.S.</td>
<td>Greeley, Colo.</td>
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<th>Name</th>
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<tbody>
<tr>
<td>Fred S. Tsutsui, D.M.D.</td>
<td>Torrance, Calif.</td>
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<tr>
<th>Position</th>
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<tr>
<td>General Chair</td>
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<td>Immediate Past General Chair</td>
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<tr>
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Dear Colleagues,

Most of us have come to know and love the AAE Annual Session. Its top-quality educational sessions, connecting with friends and colleagues, and attractive locations have drawn many of us year after year. While preserving all that is great about this event, the Annual Session Planning Committee has made some changes this year that are meant to enhance your overall experience, deliver more value for your time and money, and stir you into a new way of thinking about what it means to be an endodontist in the dental profession today.

For one registration fee, you will now gain access to education and events from Wednesday through Saturday. The first day's program will deliver nearly 20 sessions around the central theme of Hot Topics and Controversies, making it one of the most informative and enlightening educational opportunities ever offered by the AAE. You will then have the option of focusing on one interest area within the track format, or picking and choosing among subjects including surgical and nonsurgical endodontics, new science and regenerative endodontics, practice management, professional staff and submitted presentations.

The Master Clinician Series has been further developed to feature live surgical procedures following its successful debut last year. Witness clear examples of microsurgery and grafting, CT-guided apical surgery, periradicular palatal surgery and nonsurgical endodontic retreatment in a theater-in-the-round setting, or choose from a number of excellent hands-on workshops that will also be offered.

We are particularly pleased to announce the expansion of the social elements of our meeting. In an effort to be sensitive to the various backgrounds and interests of AAE members, and responsive to our recent member needs survey, we’ll be offering new venues for you to stay healthy, spend time with family and enjoy the company of the AAE community. Whether it’s Chris Crowley, New York Times best-selling author of Younger Next Year, comedian Jay Leno, a pizza and pasta party at the first AAE Family Fun Night, daily fitness classes, or the traditional events we’ve come to enjoy, including the Welcome Reception and Celebrate San Diego!, there truly will be something special for everyone. Be sure not to miss this year’s recognition of AAE award winners, which will take place on Wednesday at the Edgar D. Coolidge Luncheon.

Lastly, and perhaps most importantly, in recognition of the theme of this year’s meeting and the AAE’s commitment to educating and serving all patients, we invite you to support our first Access to Care outreach initiative, taking place all day on Saturday. Underserved patients in the San Diego community will receive needed endodontic treatment thanks to our partnership with Henry Schein Dental/Henry Schein Cares and assistance from the University of Southern California; details about the event and how you can participate will be distributed in the near future.

We have only begun to scratch the surface of all that will be available during your stay in San Diego. The pages that follow overflow with valuable information that will make this four-day event a priceless learning experience for you and your peers. We do hope that you embrace the new features of this meeting with the same excitement and anticipation of the planning committee, and we’ll look for you in San Diego!

Gerald N. Glickman, D.D.S., M.S., M.B.A., J.D.
President

Alan H. Gluskin, D.D.S.
General Chair
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<td>Noon Edgar D. Coolidge Luncheon</td>
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<td>10:30 a.m.</td>
<td>Educational Sessions – Hot Topics and Controversies Focus</td>
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<tr>
<td>11 a.m.</td>
<td>1:45 p.m. Educational Sessions – Hot Topics and Controversies Focus</td>
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<td>2 p.m.</td>
<td>3 p.m.</td>
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<tr>
<td>4 p.m.</td>
<td>5 p.m.</td>
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<tr>
<td>6:30 p.m.</td>
<td>Welcome Reception</td>
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### Thursday, April 15

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<th>Time</th>
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<td>6 a.m.</td>
<td>President’s Breakfast</td>
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<td>10 a.m.</td>
<td>Exhibits Open</td>
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<td>11:30 a.m.</td>
<td>Louis I. Grossman Memorial Luncheon</td>
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<tr>
<td>Noon</td>
<td>1:30 p.m. Educational Sessions</td>
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<td>1:45 p.m.</td>
<td>Educational Sessions</td>
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<td>6:30 p.m.</td>
<td>Welcome Reception</td>
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<tr>
<td>6:30 p.m.</td>
<td>Celebrate San Diego!</td>
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### Saturday, April 17

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<td>6 a.m.</td>
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<td>9:15 a.m.</td>
<td>Exhibits Open</td>
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<tr>
<td>9:15 a.m.</td>
<td>Educational Sessions</td>
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<tr>
<td>9:15 a.m.</td>
<td>Noon</td>
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<tr>
<td>10 a.m.</td>
<td>Noon</td>
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<tr>
<td>1:45 p.m.</td>
<td>Educational Sessions</td>
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</tr>
<tr>
<td>6 p.m.</td>
<td>President’s Event</td>
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### Tuesday, April 13
- **2 – 8 p.m.** Registration and Information  
  Ground Level/SCC

### Wednesday, April 14
- **6 – 7 a.m.** StayFit! Cardio Kickboxing  
  4th Floor Pool Deck/MH
- **7 a.m. – 5 p.m.** Registration and Information  
  Ground Level/SCC
- **8 – 9:30 a.m.** General Session Featuring Keynote Speaker Chris Crowley  
  Ballroom 6/SCC
- **9:30 a.m. – 5 p.m.** AAE Oasis Open  
  Upper Level/SCC
- **10:30 a.m. – noon** Educational Sessions and Oral Research Presentations  
  Upper and Mezzanine Levels/SCC
- **Noon – 1:30 p.m.** Edgar D. Coolidge Luncheon  
  Ballroom 6/SCC
- **1:45 – 3:15 p.m.** Educational Sessions and Oral Research Presentations  
  Upper and Mezzanine Levels/SCC
- **3:15 – 3:30 p.m.** Break
- **3:30 – 5 p.m.** Educational Sessions and Oral Research Presentations  
  Upper and Mezzanine Levels/SCC
- **5:30 – 6:30 p.m.** International Reception  
  Cunningham/MH
- **6:30 – 8 p.m.** Welcome Reception  
  4th Floor Pool Deck/MH

### Thursday, April 15
- **6 – 7 a.m.** StayFit! Fun Run and Walk  
  Departs from Seaport Courtyard/MH
- **7 a.m. – 5 p.m.** Registration and Information  
  Ground Level/SCC
- **AAE Oasis Open**  
  Upper Level/SCC
- **8 – 10 a.m.** President’s Breakfast  
  Ballroom 6/SCC
- **10 – 11:30 a.m.** Oral Research Presentations  
  Upper Level/SCC
- **Posture Evaluations and Consultations**  
  Room 4/SCC
- **Professional Staff Coffee**  
  Room 9/SCC
- **10 a.m. – 5 p.m.** Exhibits Open  
  Exhibit Hall B-1/SCC
- **11:30 a.m. – 1:15 p.m.** Louis I. Grossman Memorial Luncheon  
  Manchester Ballroom A/MH
- **1:30 – 3 p.m.** Educational Sessions and Oral Research Presentations  
  Upper and Mezzanine Levels/SCC
- **3:15 – 4:30 p.m.** Poster Research Presentations and Table Clinics  
  Exhibit Hall B-1/SCC
- **3:30 – 5 p.m.** Break
- **5 – 6:30 p.m.** Professional Staff Reception  
  West Terrace/SCC

### Friday, April 16
- **6 – 7 a.m.** StayFit! Circuit Training  
  4th Floor Pool Deck/MH
- **7 – 7:45 a.m.** District Caucuses  
  District I – A  
  District II – B  
  District III – C  
  District IV – DE

### Wednesday, April 14 continued
- **7:45 – 8:30 a.m.** Affiliate Leadership Meeting  
  Elizabeth Ballroom B/MH
- **8 a.m. – 6 p.m.** Exhibits Open  
  Exhibit Hall B-1/SCC
- **8:30 – 10 a.m.** Educational Sessions and Oral Research Presentations  
  Upper and Mezzanine Levels/SCC
- **8:30 – 11:30 a.m.** Poster Research Presentations and Table Clinics  
  Exhibit Hall B-1/SCC
- **10 – 10:15 a.m.** Break
- **10:15 – 11:45 a.m.** Educational Sessions and Oral Research Presentations  
  Upper and Mezzanine Levels/SCC
- **Noon – 1:30 p.m.** General Assembly Luncheon  
  Ballroom 6/SCC
- **1:45 – 3:15 p.m.** Educational Sessions  
  Upper and Mezzanine Levels/SCC
- **2:15 – 3:30 p.m.** Break
- **3:30 – 5 p.m.** Educational Sessions  
  Upper and Mezzanine Levels/SCC
- **5 – 6 p.m.** Exhibit Hall Happy Hour and Foundation Live Auction  
  Exhibit Hall B-1/SCC
- **5 – 6:30 p.m.** Resident Reception  
  West Terrace/SCC
- **5:30 – 7:30 p.m.** AAE Family Fun Night  
  4th Floor Pool Deck/MH
- **9 p.m. – midnight** Celebrate San Diego!  
  House of Blues, 1055 5th Ave.

### Saturday, April 17
- **6 – 7 a.m.** StayFit! Yoga  
  4th Floor Pool Deck/MH
- **6:45 a.m. – depart** Golf Outing  
  Riverwalk Golf Club
- **7 a.m. – 5 p.m.** Registration and Information  
  Ground Level/SCC
- **AAE Oasis Open**  
  Upper Level/SCC
- **9 a.m. – 5 p.m.** San Diego Access to Care Project  
  Hall A/SCC
- **9:15 – 10:45 a.m.** Educational Sessions  
  Upper and Mezzanine Levels/SCC
- **9:15 a.m. – 12:30 p.m.** Poster Research Presentations and Table Clinics  
  Exhibit Hall B-1/SCC
- **9:15 a.m. – 2 p.m.** Exhibits Open  
  Exhibit Hall B-1/SCC
- **10:45 – 11 a.m.** Break
- **11 a.m. – 12:30 p.m.** Educational Sessions  
  Upper and Mezzanine Levels/SCC
- **12:30 – 1:45 p.m.** Lunch Break
- **1:45 – 3:15 p.m.** Educational Sessions  
  Upper and Mezzanine Levels/SCC
- **3:15 – 3:30 p.m.** Break
- **3:30 – 5 p.m.** Educational Sessions  
  Upper and Mezzanine Levels/SCC
- **6 – 7 p.m.** AAE Foundation Leadership Donor Reception  
  The Gallery/MH
- **9 – 10:30 p.m.** President’s Event Featuring Jay Leno  
  Elizabeth Ballroom/MH
The following educational tracks have been designed to allow you to concentrate on one area of interest or attend sessions addressing a variety of topics. In addition, a Professional Staff track has been designed for the endodontic team. Below is a list of sessions by track; please refer to the synopses for a detailed description of each session. The Annual Session Planning Committee gratefully acknowledges the track organizers noted below for their dedication and contribution to this year’s program.

### Hot Topics and Controversies (HTC)

#### Track Organizer:
Donna J. Mattscheck, D.M.D.  
Billings, Mont.

**Wednesday**
- **HTC-100**: Apical Diameter—Large vs. Small
- **HTC-101**: Coronal Seal
- **HTC-102**: Carrier-Based Obturation—Point/Counterpoint
- **HTC-103**: Single- vs. Multiple-Visit Endodontics
- **HTC-104**: Bonded Obturation vs. Gutta-Percha
- **HTC-105**: Educating General Dentists: A Panel of Perspectives

**Thursday**
- **HTC-200**: The Nuts and Bolts of Cone-Beam Tomography for Endodontists

**Saturday**
- **HTC-400**: Bisphosphonates

### Nonsurgical Endodontics (NS)

#### Track Organizer:
Ilan Rotstein, D.D.S.  
Beverly Hills, Calif.

**Wednesday**
- **NS-100**: We’re Endodontists—We Save Teeth
- **NS-101**: A Revolutionary New Paradigm in NiTi Instrumentation
- **NS-102**: Atypical Odontalgia and Phantom Tooth Pain
- **NS-103**: Clinical Perspectives on Cleaning and Shaping
- **NS-104**: Irrigation: On the Cutting Edge

**Thursday**
- **NS-200**: Cleaning and Shaping Workshop
- **NS-201**: Tooth Infraction—A Diagnostic and Treatment Planning Problem
- **NS-202**: Practical Uses of the CT Scan in Endodontics
- **NS-203**: Redefining Pulpitis
- **NS-204**: Interactive Cases of Diagnosis, Case Selection and Treatment Planning
- **NS-205**: The Root Canal Walls—New Evidence, More Challenges
- **NS-206**: Nonsurgical Root Canal Therapy of Cyst-Like Apical Periodontitis Lesions

**Friday**
- **NS-300**: Management of Incompletely Formed Roots
- **NS-301**: Managing the Apical Third: Biologic Considerations
- **NS-302**: The Antimicrobial Effects of Cleaning and Shaping Procedures
- **NS-303**: Retreatment in the Era of Implants
- **NS-304**: Contemporary Principles Governing the Restoration of Endodontically Treated Teeth
- **NS-305**: Polymer-Based Endodontic Files and Ultrasonic Tips
- **NS-306**: Debriding and Debugging Root Canal Systems
- **NS-307**: Endodontic Exacerbation
- **NS-308**: New Methods for Negotiating and Shaping Canals
- **NS-309**: Single-Visit Treatments—Long-Term Outcome
- **NS-310**: Testing the Limits of Endodontic Treatment

### Master Clinician Series (MC)

#### Track Organizer:
Alan H. Gluskin, D.D.S.  
San Francisco, Calif.

*Featuring live patient procedures in a theater-in-the-round setting.*

**Sponsored by Morita**

**Wednesday**
- **MC-1**: Nonsurgical Retreatment

**Thursday**
- **MC-2**: Microsurgery and Grafting

**Friday**
- **MC-3**: CT-Guided Apical Surgery
- **MC-4**: Periradicular Palatal Surgery
EDUCATIONAL TRACKS

Saturday

NS-400: Irrigation: How Effective Is It?
NS-401: Microbe Wars
NS-402: Retreatment Workshop
NS-403: Endodontic Treatment in the Older Adult: Saving Natural Teeth
NS-404: Strategies to Deal With Endodontic Post-Treatment Disease
NS-405: Micro-CT Image Analysis: Possible Clinical Applications Based on Recent Research
NS-406: Endodontic Treatment or Implant—Case Selection and Treatment Decisions
NS-407: Internal and Cervical Resorption: Etiology, Diagnosis and Treatment

New Science and Regenerative Endodontics (NSR)

Track Organizer:
Ashraf F. Fouad, B.D.S., D.D.S., M.S.
Baltimore, Md.

Wednesday

NSR-100: Engineering of Functional Human Dental Pulps
NSR-101: Translating Science Into the Art of Pain Management
NSR-102: Regenerative Endodontics—Biology and Clinical Update
NSR-103: Endodontic Revascularization Technique Workshop
NSR-104: Microbial Biofilm Communities in Endodontic Infections

Thursday

NSR-200: Phototargeting Endodontic Infection

Friday

NSR-300: Recent Findings in Primary and Secondary Endodontic Infections

Practice Management (PM)

Track Organizer:
Bruce C. Justman, D.D.S.
Cedar Rapids, Iowa

Wednesday

PM-100: Endodontic Practice Transitions: A Thoughtful Process
PM-101: Managing Accounts Receivable and Collections

Thursday

PM-200: Maintaining the Sterile Field for Surgical Treatments
PM-201: Benefits and Pitfalls of a Digital Paperless Office

Friday

PM-300: The Hidden Issues in Health Histories
PM-301: Practice Success for Hard Times
PM-302: Common Drugs That Impact Endodontic Treatment
PM-303: Energize Your Life and Your Practice
PM-304: Estate and Asset Protection
PM-305: Dealing With Confrontation in the Office

Saturday

PM-400: Risk Management for the Endodontic Practice: Case Studies and Analysis
PM-401: Secrets of a Highly Effective and Happy Team
PM-402: Grow Your Business: The System and Principles a Dentist Can Teach You to Achieve Success
PM-403: Four Generations + Two Genders = One Workplace

Professional Staff (PS)

Track Organizer:
Lynda L. Davenport
Nashville, Tenn.

Wednesday

PS-100: Professional Staff Round Table: Employee Training and Marketing
PS-101: Professional Staff Round Table: Team-Building and Practice Branding

Thursday

PS-200: Save Time and Eliminate Hassles With Dental Insurance Carriers
PS-201: Fitness and Hand Care Workshop
PS-202: Posture, Pain and Productivity in Dentistry
PS-203: Demystifying Digital Radiography Workshop

Friday

PS-300: Assisting the Doctor With Phobic Patients
PS-301: CPR and Basic Life Support Workshop
PS-302: Introduction to Dental Implants for Dental Assistants
PS-303: CPR and Basic Life Support Workshop
PS-304: It’s Not My Job—The Value of Cross Training

Saturday

PS-400: Creating a Better You
**Surgical Endodontics (S)**

Track Organizer:
Carl W. Newton, D.D.S., M.S.D.
Avon, Ind.

**Wednesday**

S-100: Endodontic Microsurgery Workshop
S-101: Save or Extract Teeth: What Do Systematic Reviews Reveal?

**Thursday**

S-201: Immediate Implant Placement and Provisionalization in the Esthetic Zone: Science, Art and Limitations

**Friday**

S-300: Soft Tissue Management in Endodontic Microsurgery
S-301: Microsurgery–Theory and Practice
S-302: Integration of Implants in Endodontics Workshop
S-303: A New Vision of Endodontic Surgery
S-304: Aesthetic Principles of Soft Tissue Management in Microsurgical Endodontics
S-305: Evidenced-Based Rationale for Surgical Choices in Techniques and Materials
S-306: Sinus Management in Microsurgery
S-307: Root Canal Treatment or Dental Implant: Which One is Best?

**Submitted Presentations (SP)**

Track Organizer:
Anne E. Williamson, D.D.S., M.S.
Iowa City, Iowa

**Wednesday**

SP-100: How Can Advanced Imaging Techniques Help in Diagnosis, Treatment Planning and Follow-up of Apical Periodontitis?
SP-101: Update on Irrigant Agitation Techniques and Devices
SP-102: Challenges With NiTi Rotary Instruments
SP-103: One File to Shape, One Obturator to Fill
SP-104: Elevating the Bar in Microsurgery: From Success to Service

**Thursday**

SP-200: Application of Pulse Oximetry in Assessment of the Pulp Status in Endodontic Practice
SP-201: Endodontic Perforation: What do we Really Know?

**Thursday continued**

SP-202: Immediate Implant Placement for Endodontists
SP-203: Positive and Negative Pressure in Root Canal Irrigation: A Scientific Evaluation

**Friday**

SP-300: Sixty Years of Involvement in Endodontics, Formation of the American Board of Endodontics and Walt Disney’s Role in Dentistry
SP-301: Traumatic Injuries: Clinical Practice and Evidence-Based
SP-302: When and How Do I Bring in an Associate?
SP-303: Definitive Diagnosis and Treatment of Cracked Teeth With Microscopic Magnification
SP-304: Odontogenic Infections: Diagnosis and Management
SP-305: The Magic of Mastering the Glide Path: What Every Endodontist Should Know
SP-306: ABE Boardwalk
SP-307: Alternatives to Achieve Successful Maxillary and Mandibular Dental Anesthesia Using a Computer-Controlled Local Anesthetic Delivery System
SP-308: Sedation in Endodontics
SP-309: Completing the Journey: A Guide Through the ABE Certification Process With a Recent Recipient
SP-310: Predictable Removal of Obstructions and Separated Instruments
SP-311: For Diplomates Only: Update and Improve Your Mentoring Skills
SP-312: A JOE Update: What’s New? How do I Submit or Review a Manuscript?
SP-313: Resident and New Practitioner Career Fair

**Saturday**

SP-400: Focused Field Cone Beam-Computed Tomography in Endodontic Practice
SP-401: Decision Making: Root Canals or Implants–Let’s Stop the Debate and Understand the Rationale
SP-402: Maximizing the Use of Dental Assistants While Performing Microsurgical Endodontics
SP-403: Take the Mystery out of Dental Implants–How to Incorporate Implants Into an Endodontic Practice
SP-404: Irrigation: Concepts, Success and Failure
SP-405: Educator Forum: How to Create a Culture of Mentoring to Enhance Career Development of Faculty
SP-406: How to Perform Your Retro Preparation and Retro Filling Through the Sinus Cavity
SP-407: New Camera Technology and Photographic Skills
SP-408: Emerging Technologies and How They are Changing Dental Education
SP-409: Surgical Versus Nonsurgical Retreatment: Treatment Decisions
Numerous educational opportunities are part of the 2010 Annual Session, including focused workshops. These sessions provide hands-on exposure to a number of areas, such as microsurgery, suturing, regeneration, cleaning and shaping, implants, CPR and basic life support, hand care and retreatment.

For a complete synopsis of each workshop, please refer to the page numbers denoted below. Early registration is encouraged as attendance is limited (see page 84).

**Wednesday**

**8 a.m. – 5 p.m.**

*S-100: Endodontic Microsurgery*
Richard A. Rubinstein, D.D.S., M.S.
Fee: $800 early/$850 standard *(includes continental breakfast and lunch)*
See page 16 for a complete session synopsis.

**10:30 a.m. – 5 p.m.**

**NSR-103: Endodontic Revascularization Technique**
Todd M. Geisler, D.D.S.
Alan S. Law, D.D.S., Ph.D.
Fee: $700 early/$750 standard *(includes lunch)*
See page 20 for a complete session synopsis.

**Thursday**

**1 – 5 p.m.**

**NS-200: Cleaning and Shaping**
Alexandre A.P. Fleury, D.D.S., M.S.
Wmn. Ben Johnson, D.D.S.
Richard E. Mounce, D.D.S.
William L. Wildey, D.D.S.
Fee: $400 early/$450 standard
See page 28 for a complete session synopsis.

**1:30 – 3 p.m.**

**PS-201: Fitness and Hand Care**
Leslie Canham, C.D.A., R.D.A.
Timothy Caruso
Fee: $25 early/$35 standard
See page 32 for a complete session synopsis.

**3:30 – 5 p.m.**

**PS-203: Demystifying Digital Radiography**
Fee: $25 early/$35 standard
See page 36 for a complete session synopsis.

**Friday**

**8:30 – 11:45 a.m.**

**PS-301: CPR and Basic Life Support**
LifeGuard Medical Systems
Fee: $60 early/$70 standard
See page 40 for a complete session synopsis.

**8:30 a.m. – 5 p.m.**

**S-302: Integration of Implants in Endodontics**
Evan A. Lynn, D.D.S.
Fee: $800 early/$850 standard *(includes lunch)*
See page 42 for a complete session synopsis.

**1:45 – 5 p.m.**

**PS-303: CPR and Basic Life Support**
LifeGuard Medical Systems
Fee: $60 early/$70 standard
See page 40 for a complete session synopsis.

**Saturday**

**9:15 a.m. – 5 p.m.**

**NS-402: Retreatment**
Frederic Barnett, D.M.D.
Joseph S. Dovgan, D.D.S., M.S.
Terrell F. Pannkuk, D.D.S., M.S.D.
Fee: $800 early/$850 standard *(includes lunch)*
See page 59 for a complete session synopsis.

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**Equipment and supplies for some courses have been provided by several companies. A complete list will be available on site.**
The American Association of Endodontists appreciates the following companies that have generously supported the 2010 Annual Session. Please show your appreciation by visiting their booths in the exhibit hall and/or contacting their representatives after the meeting.

**DENTSPLY Tulsa Dental Specialties**
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**Brasseler USA and PBS Endo**
Professional Staff Reception

**Endoco**
Professional Staff Coffee
The AAE is pleased to offer this learning format with the added element of live surgery!

Endodontic techniques will be presented by leading experts in the field in a theater-in-the-round setting. Look for the **MC** throughout the program or refer to the session listing below to find the right one for you!

**Wednesday**

1:45 – 5 p.m.
MC-1: Nonsurgical Retreatment
Wyatt D. Simons (p. 24)

**Thursday**

1:30 – 5 p.m.
MC-2: Microsurgery and Grafting
Garrett M. Guess (p. 32)

**Friday**

8:30 – 11:45 a.m.
MC-3: CT-Guided Apical Surgery
L. Stephen Buchanan (p. 42)

1:45 – 5 p.m.
MC-4: Periradicular Palatal Surgery
Mahmoud Torabinejad (p. 52)

Sponsored by Morita
EDUCATIONAL SESSIONS

8 a.m. – 5 p.m.

S-100 Room 16

Endodontic Microsurgery Workshop

Richard A. Rubinstein, D.D.S.

Workshop Fee: $800 early/$850 standard (includes continental breakfast and lunch)

This all-day course is designed to provide participants with the opportunity to learn about contemporary microsurgical armamentaria and techniques. After a review of microsurgical armamentaria and a clinical demonstration of a simulated maxillary molar apical microsurgery, participants will assist each other using state-of-the-art typodont models. They will incise and reflect simulated gingiva, make an osteotomy, remove simulated granulomatous tissue, and perform an apicoectomy, retroprep, retrofill and suture on simulated maxillary anterior, bicuspid and molar teeth.

At conclusion, participants should be able to:

• Identify and utilize microsurgical armamentaria.
• Use a surgical operating microscope.
• Advance skills in performing apical microsurgery.

10:30 – 11:30 a.m.

SP-100 Room 14B

How Can Advanced Imaging Techniques Help in Diagnosis, Treatment Planning and Follow-up of Apical Periodontitis?

Elisabetta Cotti, D.D.S., M.S.
Cagliari, Italy

Moderator: Ove A. Peters, D.M.D., M.S., Ph.D.
Mill Valley, Calif.

The most advanced imaging systems available in endodontics are computerized tomography, cone-beam tomography and real-time echotomography. These techniques enable the clinician to make the differential diagnosis of lesions in bone; to visualize the anatomic details on lesions, maxillary bones and endodontic space; to disclose the content and vascular supply of the lesions, and to monitor the response of the tissues to the different phases of treatment. The techniques and their application in cases of apical periodontitis will be discussed in light of the most recent literature and based on clinical experience.

At conclusion, participants should be able to:

• Describe the basic principles of the advanced imaging techniques.
• Discuss which technique is more indicative for the diagnosis, follow-up, treatment planning and treatment monitoring in cases of apical periodontitis.
• Evaluate the risks/benefits of using each imaging technique.
### HTC-100
#### Room 1
#### Apical Diameter–Large vs. Small

**L. Stephen Buchanan, D.D.S.**  
Santa Barbara, Calif.

**E. Steve Senia, D.D.S., M.S.**  
San Antonio, Texas

Moderator: Linda G. Levin, D.D.S., Ph.D.  
Durham, N.C.

The goal of root canal treatment is to reduce bacteria and toxins as much as possible. Mechanical instrumentation is the primary means to this end, aided by effective irrigation. Management of the apical third of root canals has been controversial for as long as dentists have been saving teeth with endodontic therapy. Perhaps the greatest disagreement of all has been about the appropriate diameter of enlargement that should be cut into the ends of root canals. This debate will explore the rationale, research, clinical experiences and the preparation methods attendant to the two main camps of opinion—those clinicians who prefer to keep the apical preparation as is practical and those who want apical preparations taken to much larger diameters. Of particular interest will be descriptions of apical anatomy and the choices of instruments and procedures available to prepare the apical third.

*Attendees will have an opportunity to participate via an audience response system.*

At conclusion, participants should be able to:

- Describe the rationale and research behind the two viewpoints.
- List the instruments and procedures used to achieve the desired apical preparation outcomes discussed.
- Make more informed clinical decisions about appropriate apical preparation diameters.

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### HTC-101
#### Room 2
#### Coronal Seal

**Franklin R. Tay, B.D.Sc., Ph.D.**  
Augusta, Ga.

Moderator: James F. Wolcott, D.D.S.  
Colorado Springs, Colo.

Successful root canal treatment relies on preventing microorganisms and toxins from the oral flora from penetrating the periradicular tissues. This is achieved by filling the root canal space completely, including the coronal and apical ends. Inadequate obturation of the root canal has been found to be the most frequent cause of failure after endodontic treatment. Leakage, whether from a coronal or apical direction, adversely affects the success of root canal treatment. Although apical percolation has always been considered a factor in endodontic failure, the significance of recontamination of filled canals via the coronal route of an inadequate restoration has been increasing acknowledged as the major deterrent to the success of root canal treatment. This presentation will describe the different techniques and materials that are currently employed for achieving a coronal seal and discuss whether a good coronal seal alone can replace high-quality endodontic treatment in achieving successful treatment outcome.

At conclusion, participants should be able to:

- Describe the difference between an apical seal and a coronal seal.
- Provide the rationale for establishing a secondary coronal seal prior to the placement of a permanent restoration.
- List the different intraorifice barrier materials that are currently available for creating a secondary coronal seal.
10:30 a.m. – noon continued

**HTC-102**
**Room 5**

**Carrier-Based Obturation—Point/Counterpoint**

Wm. Ben Johnson, D.D.S.
*Tulsa, Okla.*

Denis E. Simon III, D.D.S., M.S.
*Baton Rouge, La.*

**Moderator: Frederic Barnett, D.M.D.**
*Narberth, Pa.*

This presentation will evaluate carrier-based endodontics with an emphasis on the controversial aspects of the technique. Highlights from multiple cases where retreatment for nonhealing lesions was required with conventional gutta-percha techniques will be provided and analyzed. This presentation will try to address the controversy that surrounds carrier-based obturation and whether the problem lies with the technique or the skills of the operator. Technique sensitivities, poor case selection, and inadequate cleaning and shaping will be discussed in point/counterpoint as reasons for the technique’s controversial place in mainstream endodontics.

At conclusion, participants should be able to:
- Assess adequate cleaning and shaping.
- Recognize inadequate difficulty assessment and cleaning/shaping deficiencies as pitfalls in techniques.
- Describe why most endodontists are not in favor of this technique.

**NSR-100**
**Room 3**

**Engineering of Functional Human Dental Pulps**

Jacques E. Nor, D.D.S.
*Ann Arbor, Mich.*

**Moderator: Graham R. Holland, B.D.S., Ph.D.**
*Ann Arbor, Mich.*

Tissue engineering depends on our ability to induce angiogenesis to provide for an adequate influx of oxygen and nutrients to the cells that will give rise to the new tissue. More specifically, the dental pulp tissue poses a unique challenge for tissue engineering due to the limited accessibility for new blood vessels through the tooth’s apex. In this presentation, we will discuss our recent research efforts that have resulted in the successful engineering of a tissue that has morphological and phenotypic features that resemble those of a dental pulp. We will present data that demonstrate that dental pulp stem cells differentiate into functional odontoblasts and vascular endothelial cells in vivo. In addition, we will discuss our attempts to enhance the vascularization of the engineered dental pulp tissue by local delivery of angiogenic factors.

At conclusion, participants should be able to:
- Describe important concepts in the field of dental pulp tissue engineering.
- Assess the potential for the use of stem cells and morphogenic factors in dental pulp tissue engineering.
- Critically evaluate challenges that will have to be overcome before the translation of dental pulp tissue engineering to the clinic.
Pain is the primary reason for unscheduled clinic visits and many dental procedures result in orofacial pain. Poorly controlled pain can contribute to its prolongation. Studies of pain pathways may reveal therapeutic targets to prevent or ameliorate pain. This session reviews the multi-step process of pain and discusses how each step in its transmission is subject to intervention to reduce or block nociception. Concepts presented can be applied as flexible pharmacologic strategies to prevent or manage pain.

At conclusion, participants should be able to:

- Describe physiologic and neurologic processes of pain and analgesia.
- List targets for pharmacologic intervention.
- Discuss strategies for pain prevention and management.

Practitioners across the world are successfully completing endodontic revascularization/regeneration cases. This session will summarize regenerative endodontic case reports and case series, demonstrate how practitioners can submit cases to the AAE Revascularization/Regeneration Database and present the information from the database. Treatment recommendations will be made based upon the findings from the database.

At conclusion, participants should be able to:

- Describe microorganisms in endodontic infections.
- Describe different systems available for enhanced irrigation.
- Describe possible incidents that may occur during root canal irrigation with different solutions.
**EDUCATIONAL SESSIONS**

**10:30 a.m. – 5 p.m.**

**NSR-103**

Endodontic Revascularization Technique Workshop

Todd M. Geisler, D.D.S.
*Edina, Minn.*

Alan S. Law, D.D.S., Ph.D.
*Lake Elmo, Minn.*

Moderator: Daniel J. Simon, D.D.S.
*San Francisco, Calif.*

Workshop Fee: $700 early/$750 standard (includes lunch)

This workshop will familiarize participants with the objectives and application of clinical revascularization/regenerative endodontic techniques. Specifically, this hands-on course will focus attention on human autologous fibrin matrices (hAFM), such as platelet-rich plasma, previously suggested for use as a regenerative scaffold material. Participants will prepare and place antibiotic paste, learn basic venipuncture techniques, prepare and place hAFM in a simulated root canal system, and place a final restoration.

At conclusion, participants should be able to:

- Define hAFMs and describe their potential benefits in regenerative endodontic procedures.
- Discuss basic venipuncture and blood collection techniques/armamentarium.
- Prepare and deliver hAFM into a simulated root canal system.

**1:45 – 3:15 p.m.**

**HTC-103**

Single- vs. Multiple-Visit Endodontics

Stephen Cohen, D.D.S.
*San Francisco, Calif.*

Terrell F. Pannkuk, D.D.S., M.S.D.
*Santa Barbara, Calif.*

Moderator: John F. Hatton, D.D.S., M.S.
*Edwardsville, Ill.*

Endodontic treatment protocols remain a continuing controversy. In earlier years, culturing and multiple visits were accepted as a universal standard of care but in modern times culturing is all but abandoned and single-visit versus multi-visit endodontic treatment has become the debatable topic in our endodontic specialty. In this session, a rationale for supporting single-visit endodontic therapy will be presented as well as a multiple-visit rationale. Both will provide references to existing evidence, biologic rationale, practical concerns and clinical presentations that may affect decision-making. Philosophical reasons for selecting a treatment plan protocol will be highlighted as it pertains to known limitations of outcome evidence and patient acceptance. At the end of this lively discussion, the audience will have a thorough understanding of this topic and how it relates to their own clinical practice.

Attendees will have an opportunity to participate via an audience response system.

At conclusion, participants should be able to:

- Describe outcome evidence, clinical conditions and other circumstances that affect the decision to perform root canal treatment in single or multiple visits.
- Describe the limitations of root canal treatment techniques, materials and clinician skill sets, and how it affects the choice of treatment protocol.
- Use the best available information to make the best treatment decision.
Endodontic pioneer Dr. Louis I. Grossman listed 10 desirable qualities of an ideal obturation system. An additional could be a solid (monoblock) material to totally and permanently seal the canal system. A bonded filling material was introduced recently to replace gutta-percha. The introduction of the material continues to create some controversy as to advantages or disadvantages versus the present standard material, gutta-percha. Dr. Trope will propose that years of research and clinical experience has borne out the original claims as to its superiority versus gutta-percha. Dr. Walton will take a different position—that data does not support the proposition that the bonded material fulfills its promise.

At conclusion, participants should be able to:
- Describe the concept of bonded root-filling materials.
- Evaluate the experimental and clinical evidence of this bonded material versus gutta-percha.
- Assess the advantages and disadvantages of the bonded material and the gutta-percha systems.

Atypical Odontalgia and Phantom Tooth Pain

Glenn T. Clark, D.D.S., M.S.
Los Angeles, Calif.

Jennifer L. Gibbs, D.D.S., Ph.D.
San Francisco, Calif.

Moderator: Josanne M. O’Dell, D.D.S.
San Juan Capistrano, Calif.

The peripheral and central neural mechanisms of nociceptive, inflammatory and neuropathic pain will be discussed, and the concept that symptomatic irreversible pulpitis likely involves all of these mechanisms will be explored. The problem of persistent post-treatment pain and how this can lead to chronic orofacial pain conditions will be reviewed. Clinical cases of atypical odontalgia and/or phantom tooth pain as the diagnosis will be presented. Approaches for diagnosis and management of these cases, especially the use of anticonvulsant medications and topical medications will be discussed.

At conclusion, participants should be able to:
- Describe the difference between neuropathic pain and other types of pain.
- List risk factors for persistent post-treatment pain.
- Describe diseases of atypical odontalgia and phantom tooth pain and recommended medications for the management of these conditions.
Clinical Perspectives on Cleaning and Shaping

Alexandre A.P. Fleury, D.D.S., M.S.
Dallas, Texas

Wm. Ben Johnson, D.D.S.
Tulsa, Okla.

Richard E. Mounce, D.D.S.
Vancouver, Wash.

William L. Wildey, D.D.S.
Hurst, Texas

Moderator: Dean P. Suanico, D.D.S.
Los Angeles, Calif.

Nickel-titanium rotary instruments have been an essential component of endodontic treatment for years. Current literature supports the efficient and safe application for most of the different designs of these instruments for cleaning and shaping the root canal system. This presentation will focus on the application of a rotary instrumentation system to achieve the principal goals of cleaning and shaping.

At conclusion, participants should be able to:

• Determine the importance of preserving radicular dentin through a more conservative preparation.
• Safely incorporate a rotary instrumentation system as an alternative for achieving a predictable preparation of the root canal system.
• Assess the viability of the long-term retention of the tooth through integration of endodontics and the restorative process.

Microbial Biofilm Communities in Endodontic Infections

Christine M. Sedgley, B.D.S., M.D.S., M.D.Sc., Ph.D.
Ann Arbor, Mich.

Moderator: Tatiana M. Botero, D.D.S., M.S.
Ann Arbor, Mich.

Biofilms are complex aggregations of microorganisms attached to a surface. There has been a recent shift toward describing endodontic infections in terms of biofilm communities. This is of particular interest to endodontists since microorganisms in biofilms can display increased resistance to antimicrobials. In this presentation, current information on biofilm communities in the infected root canal will be presented, as well as the evidence available for the efficacy of new approaches to clinical management of endodontic biofilms.

At conclusion, participants should be able to:

• Describe characteristics of biofilms, in particular their role in virulence and pathogenesis.
• Interpret current knowledge about biofilm communities in endodontic infections.
• Discuss the available evidence for the clinical management of endodontic biofilms, including biocompatible products, for their removal.

Endodontic Practice Transitions: A Thoughtful Process

Roswell, Ga.

Kathleen E. Hamilton, D.D.S., M.B.A.
Dallas, Texas

Joel C. Small, D.D.S., M.B.A.
Plano, Texas

Patrick J. Wood, J.D.
Irvine, Calif.

Moderator: Chad A. Campanelli, D.D.S.
Madison, Wis.

Please Note: Those attending Thursday’s Cleaning and Shaping Workshop (see page 28), are encouraged to attend this session.
Whether you are selling or buying an endodontic practice in today’s economic environment or simply considering a future transition, this presentation will provide useful information. The current processes of endodontic practice appraisal, marketing, financing and legal documentation will be discussed. In addition, we will discuss the pros and cons of solo versus group endodontic practices and why some doctors are better suited for certain practice styles. The presentation will also include recent research findings relating to long-term practice success. We will identify “Critical Success Factors” that will ultimately determine whether an associateship or partnership will succeed or fail.

At conclusion, participants should be able to:
• Describe the appraisal process for endodontic practices.
• Describe the Critical Success Factors for associateships and partnerships.
• Describe how to avoid common pitfalls of practice acquisitions and sales.

PM-101 Room 9
Managing Accounts Receivable and Collections
Lois J. Banta
Grain Valley, Mo.

Moderator: Howard J. Sorensen, D.D.S.
Yuma, Ariz.

Are your accounts receivables out of control? Does your insurance claims report weigh more than your desk? Learn to develop proven systems to track A/R more effectively and follow-up on past-due claims more efficiently without stressing yourself to the max. Design systems for collecting from patients without being perceived as the “bad guy.”

At conclusion, participants should be able to:
• Describe how to collect payment at the time of service.
• Describe how to get money off the books and into the bank.
• Track statistics easily and identify trends.

PS-100 Room 15
Professional Staff Round Table: Employee Training and Marketing
Michael S. Austin, M.B.A.
Tucson, Ariz.

Debra L. Weltes, R.D.A.
Eagan, Minn.

Michele M. Whitley
Peabody, Mass.

Moderator: Lynda L. Davenport
Nashville, Tenn.

We can all learn from each other’s successes and failures. Attendees will have an opportunity to share ideas and guidelines on issues affecting all endodontic offices, including customer service training, marketing activities and overall employee training. The audience will participate in a majority of the presentation with the speakers rotating to each informal group to facilitate discussion on a topic for both clinical and administrative attendees. Suggested questions/topics can be sent in advance to ldavenport@nashvilleendo.com.

At conclusion, participants should be able to:
• Describe new tips and tricks for training employees to provide top-level customer service.
• Describe the importance of all staff participating in referral-based marketing.
• Describe tools you can use to consistently prepare new employees to fulfill the needs of the office and the endodontist.
1:45 – 5 p.m.

MC-1

Nonsurgical Retreatment

Wyatt D. Simons, D.D.S.
San Clemente, Calif.

Moderator: Alan H. Gluskin, D.D.S.
San Francisco, Calif.

This nonsurgical live demonstration will cover endodontic retreatment. A wide spectrum of clinical techniques and applications will be reviewed and illustrated in an attempt to help clinicians ensure and streamline necessary treatment objectives for success. Complete disassembly, anatomic exploration, thorough disinfection and 3-D warm vertical obturation will be reviewed and demonstrated. Upon completion, attendees will be able to compare and contrast the treatment outcome with three-dimensional imaging using cone beam-computed tomography.

At conclusion, participants should be able to:

• Describe various methods to accomplish and ensure complete disassembly and thorough canal exploration upon nonsurgical retreatment.

• List and compare several methods to enhance the disinfection of the root canal system and the potential for these additional steps to increase success.

• Describe and assess the importance of treatment objectives in nonsurgical endodontic retreatment in relation to their impact on successful outcomes, overall patient care and personal fulfillment.

3:30 – 4:30 p.m.

SP-103

One File to Shape, One Obturator to Fill

Adam Lloyd, B.D.S., M.S.
Memphis, Tenn.

Moderator: Jared W. Cardon, D.D.S.
Bossier City, La.

Using one file to completely prepare a canal has been a long time coming. Recently, a novel alloy has been developed significantly changing the torsional and cyclic fatigue behavior of nickel-titanium instruments. Advanced 3-D imaging techniques will illustrate how changes in file design and a return to reciprocated motion provide the more conservative preparations your restorative dentist is asking for. Coupled with a core carrier-based obturator, closing all portals of exit efficiently and predictably will be shown.

At conclusion, participants should be able to:

• Describe the different modes of instrument fracture and how to minimize instrument separation.

• Incorporate a reciprocating technique with a single-file, single-use protocol.

• Explain the advantages of using a core-carrier obturation technique.
EDUCATIONAL SESSIONS

3:30 – 5 p.m.

HTC-105

Educating General Dentists: A Panel of Perspectives

George Bogen, D.D.S.
Los Angeles, Calif.

Robert A. Goldberg, D.D.S.
Buffalo Grove, Ill.

Gary R. Hartwell, D.D.S., M.S.
Newark, N.J.

Ronald R. Lemon, D.M.D.
Las Vegas, Nev.

Kim C. Livesay
Tulsa, Okla.

Clifford J. Ruddle, D.D.S.
Santa Barbara, Calif.

Moderator: Donna J. Mattscheck, D.M.D.
Billings, Mont.

A framework for the basic controversy and challenges surrounding endodontic education of the general dentist will be brought forth by the moderator. An introduction comprised of information produced by an AAE background paper will serve as a starting point for discussion on this topic. A panel of endodontic educators, private practice endodontists, as well as a representative from industry and an instructor of hands-on CE courses will share their perspectives based on questions from the audience.

Attendees will have an opportunity to participate via an audience response system.

At conclusion, participants should be able to:

• List the different types of endodontic education available to general dentists and the different venues and in which they are offered.

• Discuss the pros and cons of general dentists receiving education from various endodontic sources.

• Develop and discuss opinions on endodontic education of the general dentist based on understanding the perspectives of others affected by the subject.

NS-102 continued

Atypical Odontalgia and Phantom Tooth Pain

Glenn T. Clark, D.D.S., M.S.
Los Angeles, Calif.

Jennifer L. Gibbs, D.D.S., Ph.D.
San Francisco, Calif.

Moderator: Josanne M. O’Dell, D.D.S.
San Juan Capistrano, Calif.

This is a continuation of an earlier session; see page 21 for a complete session synopsis.

NS-103 continued

Clinical Perspectives on Cleaning and Shaping

Alexandre A.P. Fleury, D.D.S., M.S.
Dallas, Texas

Wm. Ben Johnson, D.D.S.
Tulsa, Okla.

Richard E. Mounce, D.D.S.
Vancouver, Wash.

William L. Wildey, D.D.S.
Hurst, Texas

Moderator: Dean P. Suanico, D.D.S.
Los Angeles, Calif.

This is a continuation of an earlier session; see page 22 for a complete session synopsis.
3:30 – 5 p.m. continued

NS-104 Room 5

Irrigation: On the Cutting Edge

Markus Haapasalo, D.D.S., Ph.D.
Vancouver, British Columbia, Canada

Moderator: Kenneth C. Trabert, D.D.S.
Santa Monica, Calif.

The presentation will be a cutting-edge analysis of the chemistry, physics, biology and methods of irrigation. Evaluation of present and future ways of irrigation will be based on clinical and research evidence including the newest approaches such as computational fluid dynamics. Recommendations for safe and effective irrigation will be given.

At conclusion, participants should be able to:
• Identify the chemical and biological effects of various irrigating solutions.
• Describe the available methods of irrigation.
• Identify the challenges and possibilities for irrigation by the canal anatomy.

PM-100 continued Room 8

Endodontic Practice Transitions:
A Thoughtful Process

Roswell, Ga.

Kathleen E. Hamilton, D.D.S., M.B.A.
Dallas, Texas

Joel C. Small, D.D.S., M.B.A.
Plano, Texas

Patrick J. Wood, J.D.
Irvine, Calif.

Moderator: Chad A. Campanelli, D.D.S.
Madison, Wis.

This is a continuation of an earlier session; see page 22 for a complete session synopsis.

PM-101 continued Room 9

Managing Accounts Receivable and Collections

Lois J. Banta
Grain Valley, Mo.

Moderator: Howard J. Sorensen, D.D.S.
Yuma, Ariz.

This is a continuation of an earlier session; see page 23 for a complete session synopsis.

PS-101 Room 15

Professional Staff Round Table: Team-Building and Practice Branding

Michael S. Austin, M.B.A.
Tucson, Ariz.

Debra L. Welters, R.D.A.
Eagan, Minn.

Michele M. Whitley
Peabody, Mass.

Moderator: Lynda L. Davenport
Nashville, Tenn.

We can all learn from each other’s successes and failures. Attendees will have an opportunity to share ideas and guidelines on issues affecting all endodontic offices, including team-building, patient education tools and practice branding. The audience will participate in a majority of the presentation with the speakers rotating to each informal group to facilitate discussion on a topic for both clinical and administrative attendees. Suggested questions/topics can be sent in advance to ldavenport@nashvilleendo.com.

At conclusion, participants should be able to:
• Describe ways to promote harmony and employee longevity in a practice.
• Implement patient education tools for treatment information including procedure, payment and after-hours care.
• Describe the important of practice branding through customer service, including ideas for creating “wow” service.
For decades, the primary goal of dental care has been the preservation of natural dentition through root canal treatment, periodontal therapy and restoration. However, the relatively high “success” rates of dental implants have affected treatment planning across all disciplines, including endodontics. Clinicians are frequently confronted by difficult choices. Should a tooth with pulpal problems be saved by root canal treatment or be extracted and replaced by an implant or a fixed partial denture? Should an unhealed root canal-treated tooth receive endodontic retreatment or apical surgery? Is there still a place for intentional replantation or autotransplantation? What do patients think? Acquiring complete, unbiased information to help dentists and their patients to make informed choices requires systematic reviews of the literature of the outcomes of these procedures. The purpose of this presentation is to present new systematic review data comparing a wide variety of endodontic procedures with alternative treatments.

At conclusion, participants should be able to:

• Describe the effects of relatively high success rates of single-tooth implants on treatment planning.
• Identify the differences between conventional literature reviews and systematic reviews.
• State the outcomes of nonsurgical initial root canal treatment, nonsurgical as well as surgical retreatment, intentional replantation, autotransplantation and single-tooth implants.

Endodontic microsurgery provides a definitive means to save a patient’s tooth with predictable methods that are a valuable service to our patients. In light of the treatment planning challenge that involves deciding to save a tooth versus placing an implant, as endodontists it is our mission to educate our referrals and patients on the success, service and advantages of this procedure. This presentation will discuss evidence-based factors affecting the success of endodontic microsurgery with a focus on the methods that maximize the success of endodontic surgery from tooth survivability, soft tissue esthetics and patient comfort. Also covered will be case treatment examples that will highlight the treatment decisions involved with choosing this treatment option over nonsurgical retreatment or extraction and implant placement. Finally, we will discuss methods of educating patients and referrals on the spectrum of surgical endodontics using documentation capabilities offered by today’s microscope-facilitated imaging.

At conclusion, participants should be able to:

• Assemble a knowledgebase of the current and past research on endodontic microsurgery.
• Implement a strategic method to communicate to referrals and patients about the benefits and capabilities of contemporary endodontic microsurgery.
• Assist patients and referrals to make evidence-based treatment planning decisions.
Cleaning and Shaping Workshop

Alexandre A.P. Fleury, D.D.S., M.S.
Dallas, Texas

Wm. Ben Johnson, D.D.S.
Tulsa, Okla.

Richard E. Mounce, D.D.S.
Vancouver, Wash.

William L. Wildey, D.D.S.
Hurst, Texas

Moderator: Anthony T. Tran, D.D.S.
Los Angeles, Calif.

Workshop Fee: $400 early/$450 standard

While many current techniques, instruments and materials for cleaning and shaping are extensively described in the literature as efficient, little or no information is provided at a practical level. This session will attempt to bring current scientific knowledge and practical application together, demonstrating the technique for cleaning and shaping the root canal system using a rotary instrumentation system.

At conclusion, participants should be able to:
• Safely apply current scientific knowledge to clinical cases through hands-on training on a rotary instrumentation system.
• Assess the limitations of rotary instrumentation systems, avoiding common cleaning and shaping accidents.
• Improve the long-term success of endodontics through a more conservative preparation and through the integration of endodontic treatment and the restoration of the endodontically treated tooth.

Please Note: Workshop attendees are encouraged to attend Wednesday’s lecture, NS-103; see page 22 for a session description.

Application of Pulse Oximetry in Assessment of the Pulp Status in the Endodontic Practice

Hamid Jafarzadeh Bakooei, D.D.S.
Mashhad, Iran

Moderator: W. Craig Nobleett, D.D.S., M.S.
Berkeley, Calif.

Pulse oximetry is an effective, objective oxygen saturation monitoring technique that might be useful in endodontic diagnosis of vital and necrotic pulps. In pulse oximetry, light is passed from a photoelectric diode across the tooth structure into a receptor and detects changes in absorption in red and infrared lights caused by alteration in tissue volume. Because this test produces no noxious stimuli, apprehensive or distressed patients may accept it more readily than routine methods. In this presentation, indications, limitations, influencing factors, probe design and the potential application of this system in endodontics will be presented.

At conclusion, participants should be able to:
• List the indications of using pulse oximetry in endodontics.
• Describe the limitations and influencing factors of using this system.
• Describe variations in probe design for dental usage.

POSTURE EVALUATIONS

Thursday, April 15
10 – 11:30 a.m.
Room 4/SCC

Good posture is a key factor in reducing stress and strain. By identifying and reducing stressful positions in the operatory, one begins to find that the working day is less tedious and the ride home more enjoyable. Stop in during this time for an assessment of your posture, body mechanics and self-awareness as a working dental professional in an operatory setting. With practice and time, naturally assuming a more appropriate, balanced posture allows the body to adjust to a new, balanced position, often relieving the pain and other discomfort that was previously accepted as part of the working day.
SP-201 Room 11A

**Endodontic Perforation: What do we Really Know?**

Ahmed A. Hashem, B.D.S., M.Sc., Ph.D.
*Cairo, Egypt*

**Moderator: Manuel R. Gomez, D.D.S.**
*Coralville, Iowa*

Perforations can be defined as mechanical or pathologic communications between the root canal system and the external tooth surface. Prognosis of these defects is affected by multiple factors, including position and size of the perforation, material used for repair and time lapsed until the repair. This lecture will review available evidence-based literature. Several clinical cases will be presented and treatment protocols will be illustrated along with the follow-up.

At conclusion, participants should be able to:
- List the different types of tooth perforations—causes, prevention and prognosis.
- Discuss the different techniques and materials used to repair these defects.
- Evaluate the contemporary evidence-based research about perforation.

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SP-202 Room 11B

**Immediate Implant Placement for Endodontists**

Yuan-Lung Hung, D.M.D., M.S.
*Chino, Calif.*

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

In many instances, endodontists are facing a failing tooth that needs to be extracted and replaced. The immediate implant placement is a good option for the failing tooth or teeth. How can an endodontist confidently place an implant immediately after tooth extraction and what are the considerations for immediate implant placement? In this lecture, techniques and principles of the immediate implant placement will be discussed in detail.

At conclusion, participants should be able to:
- Describe the decision-making process between immediate and delayed implant placement.
- Identify the principle and techniques of immediate implant placement.
- Apply the techniques in your private practice.
NS-201 Room 2

Tooth Infraction—A Diagnostic and Treatment Planning Problem

Leif K. Bakland, D.D.S.
Loma Linda, Calif.

Moderator: Stephen B. Davis, D.D.S.
Long Beach, Calif.

The so-called “cracked” tooth presents a problem both for the dentist and the patient. Such teeth are often difficult to identify and can produce pain symptoms ranging from vague, diffuse complaints to bizarre situations that can be mistaken for severe orofacial pain. This presentation will highlight what is known about this dental problem, and current information will be used to point out procedures that can be useful in identifying cracked teeth and what options are available for managing these teeth. Clinical situations will illustrate both identification and treatment procedures.

At conclusion, participants should be able to:
• Recognize various symptoms and clinical findings associated with infractions.
• Describe treatment options pertinent to specific situations.
• Estimate outcomes of both treatment and lack of treatment.

NS-202 Room 3

Practical Uses of the CT Scan in Endodontics

Jean-Yves G. Cochet, D.D.S.
Paris, France

Moderator: Robert Salehrabi, D.D.S.
Denver, Colo.

This presentation will discuss the uses of 3-D imaging CT scan technology for diagnosis and treatment planning in endodontics. It will describe how to effectively utilize CT scans for endodontic diagnosis, case selection and prognosis assessment of endodontic retreatment, large endodontic lesions, and complex cases involving root perforations, root resorptions and developmental malformations. In addition, diagnosis of sinus pathology and the decision process for orthograde and surgical endodontic treatment will be detailed.

At conclusion, participants should be able to:
• Describe how to read and interpret 3-D CT scans and understand its applications for diagnosis, treatment and case selection.
• Modify technical approaches for treating complex endodontic cases.
• Describe sinus pathology and the process of selecting conventional versus surgical treatment.

NS-203 Room 4

Redefining Pulpitis

Harold H. Messer, M.D.Sc., Ph.D.
Melbourne, Australia

Moderator: James H. Simon, D.D.S.
Orange, Calif.

It has been known for decades that clinical signs and symptoms do not correlate well with pulpal histopathology and irreversible pulpitis can present a wide range of symptoms. A carious exposure of a permanent tooth is widely regarded as definitive evidence of irreversible pulpitis, requiring pulp extirpation. The definition of irreversible pulpitis is a “functional” definition, reflecting the fact that available treatment procedures cannot result in a return to pulpal health. There is no fundamental biological reason supporting this definition. New conservative treatment procedures for cariously exposed pulps (direct pulp capping, partial pulpotomy) using MTA have begun to demonstrate good clinical outcomes even in cases diagnosed initially as symptomatic irreversible pulpitis in mature adults. These findings require us to rethink our concepts of pulpitis, with the potential for saving many more vital pulps.

At conclusion, participants should be able to:
• Interpret pulpal status from the full range of clinical symptoms and investigation.
• Judge when a carious exposure can be managed conservatively even in mature adults.
• Choose the best option for conservative treatment.

NS-204 Room 1

Interactive Cases of Diagnosis, Case Selection and Treatment Planning

James L. Gutmann, D.D.S.
Dallas, Texas

Moderator: Kenneth N. Namerow, D.D.S.
Davie, Fla.

Diagnosis, case selection and treatment planning challenges, along with treatment parameters in the delivery of quality endodontic care will be highlighted in an interactive session. This dynamic approach to learning will allow participation by all attendees, using electronic keypads to input their assessments and information anonymously. Data will be readily available for the audience in graphic and statistical formats to
review at which time both lively discussions and questions will be encouraged and facilitated by the presenter. Cases, evidence-based science and sound parameters of practice will be used to address a wide range of endodontic challenges and the audience will be able to express their assessment, understanding and choices in treatment. Attendees will have an opportunity to participate via an audience response system.

At conclusion, participants should be able to:
• Assess important evidenced-based information and describe how this can be used to enhance the clinical practice.
• Identify key changes in thought relative to sound clinical practices in endodontics that are designed to provide predictable success.
• Cite the rationale for clinical choices in treatment planning and the application of specific procedures in the delivery of nonsurgical and surgical endodontic treatment.

PM-200 Room 9

Maintaining the Sterile Field for Surgical Treatments
Jackie Dorst, R.D.H.
Fernandina Beach, Fla.

Moderator: Bruce C. Justman, D.D.S.
Iowa City, Iowa

The increase in endodontic surgical procedures and the number of medically compromised patients treated in endodontic practices challenges endodontic teams to review sterile instrument reprocessing systems and operatory preparation for a “sterile surgical field.” This course reviews proper cleaning, packaging, sterilization and sterile storage for surgical instrument set-ups. Attendees will learn proper sterile instrument assurance and monitoring with indicators, integrators and biological monitors. Samples of sterile package products will be provided for attendees. This seminar includes a demonstration of sterile technique for operatory set-up, donning surgical attire and maintaining the surgical field during patient treatment.

At conclusion, participants should be able to:
• Define a sterile environment.
• List the AAMI classifications for chemical indicators used for sterile instrument packages.
• Describe proper use of biological monitors.

PS-200 Room 8

Save Time and Eliminate Hassles With Dental Insurance Carriers
William D. Powell, D.D.S., M.S.
Knoxville, Tenn.

Make your insurance reporting quick and painless! Learn what to do to eliminate challenges with your insurances. The AAE’s new document, *Save Time and Eliminate Hassles With Dental Insurance Carriers*, will help you make the process go smoothly. Questions and answers will comprise the remainder of the session. Submit your questions early to dentalbenefits@aae.org or bring them with you to the meeting.

At conclusion, participants should be able to:
• Describe what it takes to submit claims accurately.
• Describe the answers to your dental benefit questions.
• Discuss the codes and how to apply them to insurance claims.

This session is planned by the Dental Benefits Committee:
William D. Powell, D.D.S., M.S., Chair
William T. Gillespie, D.M.D., M.P.H.
Iman S. Labib, D.M.D.
Kimberly A. McLachlan, D.M.D., M.S.Ed., M.B.A.
Merlyn W. Vogt, D.D.S.
Kenneth B. Wiltbank, D.M.D.
Annika Marschall, D.M.D., Student
George T. Goodis, D.D.S., Board Liaison
Fitness and Hand Care Workshop

Leslie Canham, C.D.A., R.D.A.
Copperopolis, Calif.

Timothy Caruso, M.S., M.B.A.
Addison, Ill.

Moderator: Debra L. Welters, R.D.A.
Eagan, Minn.

Workshop Fee: $25 early/$35 standard

This unique workshop will combine two topics important to dental professionals—hand care and fitness. The benefits of regular exercise, how to apply them specifically to dentistry and how fitness can impact your function in the operatory will be discussed. Some reliable exercise routines will be reviewed, as well as some alternative approaches to incorporating regular exercise into your life. The second half of the workshop will focus on hand care. Dental professionals spend a great deal of time performing hand-hygiene procedures. This “hands-on” workshop is designed to help the dental professional understand how to perform hand hygiene correctly, select hand-hygiene products and gloves, recognize signs of skin irritation and locate reliable resources for hand hygiene.

At conclusion, participants should be able to:
• Define the unique musculoskeletal needs of dental professionals.
• Describe how to protect hands and skin while working in dentistry.
• Recognize signs and symptoms of potentially dangerous skin conditions.

Alveolar Preservation is a technique that helps preserve the vertical and horizontal dimensions of the alveolar process immediately after extraction. This procedure allows for ridge maintenance and more ideal implant placement. This presentation will describe the various methods and techniques to perform alveolar preservation.

At conclusion, participants should be able to:
• Identify the various techniques used in alveolar preservation.
• Describe the various instrumentation procedures to minimize trauma in the execution of alveolar preservation.
• Identify the most ideal graft material to be used during alveolar preservation procedures.

Microsurgery and Grafting

Garrett M. Guess, D.D.S.
San Diego, Calif.

Moderator: Alan H. Gluskin, D.D.S.
San Francisco, Calif.

The clinical success of endodontic microsurgery depends heavily on the use of the operating microscope, specially designed microsurgical instruments and contemporary materials. When used together, these tools provide a successful treatment option for nonhealing endodontic cases. This presentation, performed with a live patient, will provide a comprehensive step-by-step demonstration of the techniques available to optimize the outcome of endodontic microsurgery to treat nonhealing endodontic pathology.

At conclusion, participants should be able to:
• Visualize the entire procedure involved with treating a nonhealing endodontic case by a microscope-assisted surgical approach.
• Recognize and utilize materials to optimize the success of endodontic surgery cases through grafting of periodontal and endodontic defects.
• Incorporate the demonstrated grafting materials and microsurgical techniques into their practice to provide successful endodontic microsurgery to patients.
3:30 – 4:30 p.m.

SP-203 Room 11A

Positive and Negative Pressure in Root Canal Irrigation: A Scientific Evaluation

Lucas W.M. van der Sluis, D.D.S., Ph.D.
Amsterdam, Netherlands

Moderator: Bettina R. Basrani, D.D.S., M.S.D., Ph.D.
Toronto, Ontario, Canada

Irrigation of the root canal system is an important aspect in root canal treatment. Traditionally, syringe irrigation is the most popular irrigation system, which is based on positive pressure. Lately, negative pressure systems have been developed to prevent sodium hypochlorite accidents and to remove the “apical vapor lock.” This presentation will critically evaluate and explain the working mechanisms of both systems, including the newest data based on high-speed imaging and computational fluid dynamics.

At conclusion, participants should be able to:

• Describe the difference between positive and negative pressure irrigation.
• Describe the relevance of an “apical vapor lock.”
• Describe the mechanism of the refreshment of an irrigant by positive and negative pressure irrigation.

3:30 – 5 p.m.

HTC-200 Room 14A

The Nuts and Bolts of Cone-Beam Tomography for Endodontists

Christine I. Peters, D.D.S.
San Francisco, Calif.

Ove A. Peters, D.M.D., M.S., Ph.D.
San Francisco, Calif.

Moderator: W. Craig Noblett, D.D.S., M.S.
Berkeley, Calif.

Cone-beam volumetric tomography or CBVT is a very attractive technology enhancing diagnostics both in nonsurgical and surgical endodontics. This presentation gives clinicians a summary of the underlying technology. Recent developments and comparisons of commercially available units will be highlighted and differences to conventional CT will be pointed out. Data quality and 2-D/3-D reconstruction will be demonstrated with case examples. A clinical section will illustrate developments of CBVT in imaging technology in endodontics for nonsurgical treatment as well as surgical planning. The advantages of additional views, cross sections, and reconstructions for preoperative and postoperative cases have changed the delivery of care. Clinical examples of CBVT image interpretation and assessment of artifacts will be presented. The integration of CBVT into nonsurgical endodontics and implantology will be explored, and findings facilitating assessment of periradicular lesions will be explained using patient cases. Finally, ramifications of an ethical and legal nature will be presented.

At conclusion, participants should be able to:

• Discuss the technology required for cone-beam volumetric tomography.
• List the prerequisites necessary to integrate CBVT into endodontic practices.
• Describe benefits and responsibilities for clinicians using CBVT scans for case assessment.
NS-204 continued Room 1

Interactive Cases of Diagnosis, Case Selection and Treatment Planning

James L. Gutmann, D.D.S.
Dallas, Texas

Moderator: Kenneth N. Namerow, D.D.S.
Davie, Fla.

This is a continuation of an earlier session; see page 30 for a complete session synopsis.

NS-205 Room 3

The Root Canal Walls–New Evidence, More Challenges

Hagay Shemesh, D.M.D., Ph.D.
Amsterdam, Netherlands

Moderator: Jay J. Sung, D.D.S.
Covina, Calif.

Proper biomechanical cleaning and shaping and a hermetic seal of the root canal system are the foundation for successful root canal treatment. The root canal walls are the substrate of these procedures. Different aspects of the interaction between the wall and clinical procedures will be discussed in all three important aspects of root canal treatment: preparation, irrigation/disinfection and filling. Further investigation of the root canal wall will lead to a better understanding of many current dilemmas in endodontics and will eventually help to increase the predictability of the root canal treatment.

At conclusion, participants should be able to:
• Describe the advantages and disadvantages of in vitro methods to inspect the root canal walls.
• List current problems with instrument performance that may alter the surface of the root canal wall.
• Assess the potential of optical coherence tomography in imaging the root canal walls.

NS-206 Room 11B

Nonsurgical Root Canal Therapy of Cyst-Like Apical Periodontitis Lesions

Louis M. Lin, D.M.D., Ph.D.
New York, N.Y.

Moderator: Ahmad Sadeghein, D.D.S., M.S.
Glendale, Calif.

Nonsurgical root canal therapy for cyst-like apical periodontitis lesions may achieve a success rate as high as 94 percent. Biopsy reports of root canal treatment failures after periapical surgery indicate that only a small percentage of periapical lesions are inflammatory apical cysts. Similar to all infectious diseases, apical cysts have the potential to heal after elimination of infection by nonsurgical root canal therapy. The mechanism of regression of inflammatory apical cysts is mediated by apoptosis.

At conclusion, participants should be able to:
• Describe the etiology of cyst-like apical periodontitis lesions.
• Describe the pathogenesis of inflammatory apical cysts.
• Recognize the mechanism of regression of inflammatory apical cysts.
Disinfection of the root canal system is critical to success and the need for better root canal disinfection is clear and compelling. The use of photodynamic therapy (PDT) for bacterial inactivation was first demonstrated more than 100 years ago. Antimicrobial PDT is based on the concept that nontoxic photosensitizers can be taken up by microorganisms and subsequently activated by light of the appropriate wavelength to generate singlet oxygen and free radicals that are cytotoxic to cells. Recently, PDT has been utilized to eradicate microorganisms within root canal systems suggesting its usefulness as an adjunct to current endodontic disinfection techniques. This session will introduce the efforts of the Applied Molecular Photomedicine Laboratory concerning the development of PDT for endodontic infection. Problems and challenges will be discussed and new frontiers of endodontic antimicrobial PDT research will be introduced.

At conclusion, participants should be able to:
• Provide an overview of photodynamic therapy with emphasis on its current status as an antimicrobial therapy in dentistry.
• Review the progress made regarding the development of PDT for endodontic infection.
• Discuss the future application of photodynamic therapy as an effective adjunct to endodontic disinfection protocols.

The modern dental office is afforded many benefits through recent advancements in digital technology including the treatment and marketing of our offices. With all of the technology that is available, there are as many different definitions of a digital office as there are practice styles. Identifying what your office currently is and what you want your practice to become is key to understanding how to use digital equipment. This seminar will reveal the benefits and possibilities of what your practice can become by implementing a digital office while avoiding financial and stressful pitfalls in the process.

At conclusion, participants should be able to:
• Identify the definition and practical application of a digital office for your practice.
• Describe the benefits and challenges of a digital office for your staff in training and application.
• Describe the essential support and costs involved in running a digital office.
Posture is a key ingredient in the dental profession. Good and bad posture can positively and negatively impact the bottom line. Stress can lead to a reduction in productivity and the body’s ability to heal itself. Lost work time and diminished work life are serious threats to personal and professional achievement. Tuning into proper posture can limit the stresses of the treatment day and contribute to a positive experience for the practitioner and the patient. A strong, healthy worker is an efficient, productive worker. The result is positively reflected in the quality of the work and the bottom line. This program presents a real-time, hands-on approach to solving the problems that dental professionals face in the workplace everyday—posture, pain, productivity, career satisfaction and the bottom line.

At conclusion, participants should be able to:

• Review the anatomy and physiology of the musculoskeletal system for the upper and lower quarters and the spine.
• Identify proper working postures, activities and techniques in order to create preventative strategies that can counteract the ill effects of work-related musculoskeletal disorders.
• Identify alternative approaches for efficient, effective delivery of care and a healthier lifestyle that can assist dental professionals in practicing productively without pain.

Immediate Implant Placement and Provisionalization in the Esthetic Zone: Science, Art and Limitations

Achieving anterior implant esthetics is a challenging and demanding procedure. To create implant restorations with harmonious gingival contour that emulate nature is a fusion of science and art. Understanding the biologic and physiologic limitations of the soft and hard tissue will facilitate predictability in simple to complex esthetic situations. This presentation will focus on current treatment philosophies and methodologies for immediate implant placement and provisionalization in the esthetic zone. Equal emphasis will be placed on the diagnosis and treatment planning, and the surgical and prosthetic management of soft and hard tissue for optimal anterior implant esthetics.

At conclusion, participants should be able to:

• Describe prognostic variables for anterior immediate implant placement.
• Explain indications and contraindications for immediate implant placement.
• Describe the benefits of immediate implant placement.
Management of Incompletely Formed Roots

Mahmoud Torabinejad, D.M.D., M.S.D., Ph.D.
Loma Linda, Calif.

Moderator: Samuel W. Oglesby, D.D.S., M.A.
Garden Grove, Calif.

The primary function of the dental pulp is formation of the root and its surrounding structures. Injury to the pulp can result in pulpal and periapical inflammation and necrosis. Pulpal pathosis affects development of root and periradicular tissues. The stage of root development influences the type of treatment rendered. Procedures routinely undertaken on a fully developed tooth are not always possible on a tooth that is only partially developed. Pulp capping, shallow or deep pulpotomy is performed in a tooth with vital pulp and open apex. Apexification, apical barrier plug, autotransplantation, pulp regeneration and possibly bioengineered tooth replacement are performed for a tooth with a necrotic pulp and open apex. Embryology of pulpal and periradicular tissues will be reviewed. The diagnosis, treatment planning and case selection will be discussed. History for various techniques of management, materials used, and clinical, radiographic and histological outcomes of these treatments also will be presented.

At conclusion, participants should be able to:

• Discuss methods of diagnosis and case selection for appropriate treatment modalities.
• Identify situations in which a tooth with an open apex requires vital pulp therapy or root-end closure and root canal therapy.
• Describe how to perform vital pulp therapy or root-end closure procedures.

Managing the Apical Third: Biologic Considerations

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

Moderator: Daniel S. Schechter, D.D.S.
Los Angeles, Calif.

This region of the canal is important. The anatomy and histology of the apical third and why this apical segment of the canal is challenging to clean, shape and obturate will be discussed. The internal anatomy is complex and unpredictable. There are no reliable clinical techniques to determine the anatomical variations. Also included is the rationale of confining instruments, materials and irrigants to the canal space, and the effects if these extend or are extruded beyond the apex. These effects are usually adverse and local, but also may be systemic. The presentation is based on experimental evidence.

At conclusion, participants should be able to:

• Describe the anatomic variations of the apical one-third of the canal.
• Describe the limitations of existing methods to clean, shape and obturate predictably.
• Define the histologic and prognostic effects when materials, irrigants or instruments extrude beyond the apex.

The Antimicrobial Effects of Cleaning and Shaping Procedures

Frederic Barnett, D.M.D.
Narberth, Pa.

Moderator: Louis E. Schwarzbach, D.M.D.
Northridge, Calif.

This lecture will focus on the antimicrobial effectiveness of contemporary “cleaning and shaping” procedures. The relationship between canal disinfection and outcome will also be discussed.

At conclusion, participants should be able to:

• Describe the etiology and pathogenesis of apical periodontitis.
• Describe the antimicrobial effects of instrumentation and irrigation.
• Describe the antimicrobial effects of different intracanal dressings.
Retreatment in the Era of Implants

Shimon Friedman, D.M.D.
Toronto, Ontario, Canada

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

A recent survey and many endodontists’ cumulative experiences have indicated that dentists are increasingly biased towards extraction of root-filled teeth with post-treatment apical periodontitis and their replacement with implants. On the other hand, clinical studies consistent with the best available evidence have demonstrated that the outcome of retreatment is at par with that of initial treatment. Considering the very good prognosis of retreatment, the tendency towards extraction of teeth should be countered and the practice of retreatment promoted for the benefit of patients. To effectively counter unwarranted extractions, the technical possibilities, as well as the favorable outcomes of retreatment, must be communicated to patients and dentists alike. Case selection strategies must be modified to fit the new era when tooth replacement with implants is a readily accessible, predictable alternative to retreatment. Finally, when performed, retreatment techniques must be as conservative as possible to preserve tooth structure and restorations where possible.

At conclusion, participants should be able to:
• Define the key concepts supporting the practice of retreatment in an environment biased towards extraction and replacement of teeth with post-treatment apical periodontitis.
• Describe current strategies for case selection for retreatment or tooth extraction and replacement.
• Outline the least invasive retreatment techniques that can be used to preserve tooth structure and restorations.

Recent Findings in Primary and Secondary Endodontic Infections

Wenyuan Shi, Ph.D.
Los Angeles, Calif.

Moderator: Nadia Chugal, D.D.S., M.S.
Los Angeles, Calif.

The advancement of modern science led to the development of new tools for early detection, effective treatment and prevention of dental diseases. This impact has changed the path of future dentistry from a surgical approach to a medical approach, and from treatment to risk assessment and prevention. This presentation will review the ongoing, exciting research progresses in molecular medicine/dentistry, provide new information about the latest understanding of oral microbial pathogenesis, and discuss the new diagnostic, therapeutic and preventative tools from cutting-edge research.

At conclusion, participants should be able to:
• Describe how oral bacteria may cause primary and secondary endodontic infections.
• Identify the new diagnostic tools to detect endodontic infections.
• Describe the new antimicrobial tools to control endodontic infections.
The Hidden Issues in Health Histories

Cindy L. Marek, Pharm.D.
Iowa City, Iowa

Moderator: Manuel R. Gomez, D.D.S.
Coralville, Iowa

Dental practitioners are faced with an increasing number of patients who have complicated medical histories. Patients who are compromised due to diseases, medications or treatments such as radiation or chemotherapy require special management considerations. This presentation will assist clinicians in the development and maintenance of a comprehensive “user friendly” health history record that will optimize patient care and highlight responses or inconsistencies that warrant further investigation.

At conclusion, participants should be able to:
• Describe common barriers that result in inaccurate or incomplete medication and health histories.
• Assess records for “red flags” that require clarification from the patient or patient’s physician.
• List common allergies or drug-disease state interactions that influence the choice of an antibiotic, analgesic or local anesthetic in clinical practice.

Practice Success for Hard Times

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

Moderator: Jane Peck, M.B.A.
Colorado Springs, Colo.

This program will address the key office and clinical systems and marketing techniques needed to move the office to the next level in practice success and enjoyment. You will also learn how to select, train and empower a Team Leader who can truly run your office while you still maintain the leadership role and focus on high-quality patient care.

At conclusion, participants should be able to:
• Describe the five key systems that increase office productivity and efficiency.
• Describe how to develop an effective marketing system that provides you with quality patients needed to meet your practice goals.
• Describe how to find and train a team leader so they run the everyday business of the office allowing the doctor time to treat patients.

Assisting the Doctor With Phobic Patients

April Burrus
Seattle, Wash.

Moderator: Susan I. Angulo
El Paso, Texas

This session will cover the fundamentals of dental fear; examining the origin of phobias and their manifestations in the dental environment. Featuring discussions and case samples of the unique role the dental staff member plays in the success of the sedation experience, the presentation will also offer a toolbox of methods to get beyond the phobia and explain how oral sedation dentistry is a proven solution to the issue and a benefit to your practice.

At conclusion, participants should be able to:
• Identify signs of patients in need.
• Demonstrate different ways to make patients comfortable to enable them to move forward with necessary treatment.
• Describe various methods of monitoring the sedation patient.
**8:30 – 10 a.m. continued**

**PS-301 Room 14B**

**CPR and Basic Life Support Workshop**

LifeGuard Medical Solutions  
*Nashville, Tenn.*

*Workshop Fee: $60 early/$70 standard*

This basic life support course is designed for a wide variety of health care professionals. This class teaches the ability to recognize several life-threatening emergencies, provide CPR, use an AED, and relieve choking in a safe, timely and effective manner.

At conclusion, participants should be able to:
- Recognize and respond to several life-threatening emergencies.
- Provide cardiopulmonary resuscitation.
- Use an automated external defibrillator.

**S-300 Room 1**

**Soft Tissue Management in Endodontic Microsurgery**

Peter Velvart, D.M.D.  
*Zurich, Switzerland*

*Moderator: Scott B. McClanahan, D.D.S., M.S.  
Plymouth, Minn.*

In modern endodontic surgery the management of soft tissues becomes increasingly important for an esthetically successful treatment. This is true considering maintenance of attachment levels and regarding the amount of possible recession after surgical procedures. A critical review of currently used techniques based on clinical and scientific data reveals great potential for improvements. Based on anatomical considerations, various incision types are evaluated and recommendations made. Clear understanding of wound closure and tissue-healing patterns call for the use of atraumatic procedures, nonirritating suture materials and adequate suturing techniques. The presentation gives an overview and guidance for integrating current and new successful flap designs and wound closure methods.

At conclusion, participants should be able to:
- Describe the reaction pattern of the tissues involved and the healing principles after the wound closure.
- Apply this knowledge correctly in choosing the appropriate type of incision and flap design.
- Identify the correlation between the healing pattern and minimal invasive tissue handling.

**S-301 Room 5**

**Microsurgery—Theory and Practice**

Garrett M. Guess, D.D.S.  
*San Diego, Calif.*

Raed S. Kasem, D.D.S., M.S.  
*Clearwater, Fla.*

Syngcuk Kim, D.D.S., Ph.D.  
*Philadelphia, Pa.*

Samuel I. Kratchman, D.M.D.  
*Exton, Pa.*

*Moderator: Bradford R. Johnson, D.D.S.  
Chicago, Ill.*

Modern endodontic practices must provide both nonsurgical and surgical treatment options. Endodontic microsurgery is fundamentally different from the traditional apical surgery in terms of instruments, materials, biological principles and, most importantly, the healing success. Although incorporation of the surgical option is growing rapidly, many still opt for nonsurgical retreatment when a case should have been treated surgically. This presentation has two parts—the first will focus on how to DO microsurgery; the second addresses how to INCORPORATE microsurgery into daily practice. The first part will include discussion of the basic steps in microsurgery using cone beam-computed tomography, digital pictures, video clips and slides, so that the participants will have a clear understanding of the microsurgical procedures. Well-documented surgical cases performed with microsurgical methods with multi-year recall checks will be presented in the second half.

At conclusion, participants should be able to:
- List factors that lead to endodontic failure and indications for nonsurgical and/or surgical retreatment clearly.
- Describe the basic and biological steps in microsurgery.
- Discuss how referring dentists and patients benefit from working with an endodontist who practices microsurgery as a part of endodontic treatment.
SP-300 Room 7A
Sixty Years of Involvement in Endodontics, Formation of the American Board of Endodontics and Walt Disney’s Role in Dentistry
John I. Ingle, D.D.S., M.S.D.
San Diego, Calif.

Moderator: John S. Olmsted, D.D.S., M.S.
Greensboro, S.C.

This session will lead you through the early problems endodontic pioneers encountered in gaining acceptance of endodontics as a specialty; the battles over focal infection that spilled over in establishing the American Board of Endodontics; the resistance by manufacturers to standardize endodontic instruments; and Walt Disney's role in producing his very first film, “Tommy Tucker’s Tooth.” This was the first dental film with animation ever produced and will be shared during the presentation.

At conclusion, participants should be able to:
• Describe the early pioneers of endodontics as a specialty and of the battles in overcoming the ingrained beliefs in focal infection.
• Describe the early battles the American Association of Endodontists encountered in its attempts to establish endodontics as a recognized dental specialty.
• Review the first film Walt Disney ever produced over 85 years ago, which was also the first animated dental film ever made.

SP-301 Room 9
Traumatic Injuries: Clinical Practice and Evidence-Based
Roberta Pileggi, D.D.S., M.S.
Gainesville, Fla.

Moderator: Ralan D. Wong, D.D.S.
San Francisco, Calif.

Traumatic injuries are becoming more commonplace in today’s practices. Problems associated with trauma include controversial treatments, unreliability of diagnostic tests, diagnostic challenges and inability to predict success. Several theories associated with the unreliability of these tests and ways of overcome this problem will be discussed. Case-based scenarios including helpful guidelines on how to treat and manage pediatric patients with traumatic injuries will also be discussed.

At conclusion, participants should be able to:
• Identify the biological reasons for unreliability of diagnostic tests.
• Cite outcomes following traumatic injuries.
• List appropriate treatment modalities.

SP-302 Room 14A
When and How Do I Bring in an Associate?
W. Paul Radman, D.D.S.
Dallas, Texas

Keith D. White, CPA
Dallas, Texas

Moderator: Keith V. Krell, D.D.S., M.S., M.A.
West Des Moines, Iowa

This session will help the practice evaluate when it is ready to integrate another endodontist into the practice. The senior endodontist(s) will want to be able to understand the physical plant, scheduling and financial issues involved. The important elements of the interview process and factors involved in making the final decision will be discussed. Additionally, we will present the various length and types of associateships, and the future business arrangement options.

At conclusion, participants should be able to:
• Determine the appropriate time to consider taking in an associate.
• Improve the interview process.
• Differentiate the options available with an associate in the practice.
Recently, endodontic specialists have been pursuing training to place implants as a part of their practices for those teeth determined to have guarded to poor prognoses. This new direction in the specialty has changed it in dramatic and providential ways, among them the cross-fertilization of concepts, instruments and procedures. One of the most exceptional advancements in implantology has been the use of CT imaging, computer software for surgical treatment planning and stereolithography to generate drill guides for implant placement. This live demonstration will show the use of this technology in order to guide surgical drills to the root apices of a tooth needing surgical retreatment in less time through a smaller tissue flap, and with more precision than is possible when using traditional surgical methods. After the osseous access cavity has been cut and the apicesection completed, the root end will be prepared and retro-sealed with prototype instruments designed for this microarthroscopic procedure.

At conclusion, participants should be able to:
• Describe the advantages of CT-guided endodontic surgery.
• Describe how to develop an endodontic surgery treatment plan using a computer.
• Identify the techniques and instruments needed to do CT-guided surgery.

The dually trained endodontist is ideally positioned to determine the appropriateness of endodontic therapy or implant placement. This workshop will explore the integration of implants into an endodontic practice. Included, is an assessment of inclusion and exclusion criteria relating to the decision concerning endodontics or implants. Atraumatic extractions and the appropriate use of grafts will be reviewed. Techniques for grafting will be considered including indications for specific types of bone/membranes. The best available evidence in support of treatment planning implants or endodontics will be discussed. Hands-on implant placement using models will follow.

At conclusion, participants should be able to:
• Recognize the advantages of integrating endodontics and/or implants into treatment planning.
• Recognize favorable and unfavorable implant sites.
• Describe when socket grafting may be required.
10:15 – 11:15 a.m.

**SP-303**  
**Definitive Diagnosis and Treatment of Cracked Teeth With Microscopic Magnification**

Robert Salehrabi, D.D.S.  
*Denver, Colo.*

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

As the population lives longer and retains more teeth, the frequency of cracked teeth is increasing. Cracked teeth present a variety of test results, signs and symptoms that depend on many factors. This unpredictability makes the cracked tooth a perplexing diagnostic and treatment entity. Microscopic magnification techniques will be discussed that will provide definitive information related to the extent of the cracks externally, internally and below the attachment level, and their predictable treatment.

At conclusion, participants should be able to:
- Increase confidence regarding definitive diagnosis of cracked teeth.
- Describe various types of cracks.
- Deliver predictable and definitive treatments for each type of crack using microscopic magnification.

**SP-304**  
**Odontogenic Infections: Diagnosis and Management**

Jonathan J. Madras, D.D.S.  
*Hollywood, Fla.*

**Moderator: Scott A. Schwartz, D.D.S.**  
*San Antonio, Texas*

Penicillin VK is great, but it is not always the answer. Management of odontogenic infections is a daily occurrence in the endodontic practice. The choice of drainage technique and prescription of an antimicrobial is critical for success. This presentation will outline contemporary microbial management with appropriate agents and approaches for situations commonly presenting in the dental office. Additionally, surgical intervention and management of infections in fascial planes will be discussed.

At conclusion, participants should be able to:
- Interpret clinical manifestations of odontogenic infections and how to address the causative agents.
- Review appropriate interventions and when to refer.
- Select appropriate antimicrobial drugs or combination therapies.
Contemporary Principles Governing the Restoration of Endodontically Treated Teeth

Charles J. Goodacre, D.D.S., M.S.D.
Loma Linda, Calif.

Moderator: Steven T. Swager, D.M.D.
Phoenix, Ariz.

The restoration of endodontically treated teeth requires knowledge of contemporary science, techniques and materials. This presentation will provide answers to the clinical questions most commonly asked about the management of teeth with root canal treatment.

At conclusion, participants should be able to:
- Identify which endodontically treated teeth would benefit from the placement of crowns.
- Determine which endodontically treated teeth need posts.
- Identify the appropriate post length, root canal filling material length, post diameter and ferrule dimensions.

Debriding and Debugging Root Canal Systems

J. Craig Baumgartner, D.D.S., M.S., Ph.D.
Portland, Ore.

Moderator: Steven Kallman, D.D.S.
Los Angeles, Calif.

Although instruments have greatly improved shaping of the canal system, we still rely primarily on irrigation to clean (debride and disinfect) the root canal system. Methods have been introduced to better debride and disinfect root canal systems prior to obturation. Innovative needles, apical-controlled delivery systems, and the use of sonics or ultrasonics have been recommended. Sodium hypochlorite (NaOCl) remains the most commonly used irrigant, however, there is concern for the safety of the patient. Various concentrations of NaOCl have been evaluated for safety, efficacy of debridement...
and ability to disinfect the root canal system. Other irrigants evaluated include ethylene-diamine-tetra-acetic acid (EDTA), chlorhexidine, MTAD and other solutions. In addition, the use of lasers and other forms of photodynamic energy have been tested. This presentation will compare and contrast the efficacy of various irrigants, combinations of irrigants, irrigation delivery methods, and lasers and other forms of photodynamic energy.

At conclusion, participants should be able to:
- Describe the microbial ecosystem (bugs) in endodontics to include bacteria, fungi, viruses and possibly prions.
- Describe the advantages and disadvantages of irrigants and various delivery systems currently used (e.g., sonics, ultrasonics, negative pressure) for root canal debridement and disinfection.
- Describe the use of photodynamics and other methods (e.g., ultraviolet light and lasers) for root canal disinfection.

PM-301 continued

Practice Success for Hard Times

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

Moderator: Jane Peck, M.B.A.
Colorado Springs, Colo.

This is a continuation of an earlier session; see page 39 for a complete session synopsis.

PM-302

Common Drugs That Impact Endodontic Treatment

Cindy L. Marek, Pharm.D.
Iowa City, Iowa

Moderator: Gary D. Matt, D.D.S., M.S.
West Des Moines, Iowa

Optimum management of the medicated patient requires an understanding of the role that concomitant medications play in the appropriate selection of local anesthetics, opioid analgesics, NSAIDs and antibiotics. This session will review common prescription, over-the-counter and herbal medications that can influence endodontic treatment.

At conclusion, participants should be able to:
- Assess the potential for drug-drug interactions that can occur with medications frequently prescribed in dental practice.
- Describe important prescribing considerations for patients taking medications for diabetes, hypertension and other cardiovascular disorders.
- List adverse effects associated with inappropriate prescribing of NSAIDs and opioid analgesics.

PS-301 continued

CPR and Basic Life Support Workshop

LifeGuard Medical Solutions
Nashville, Tenn.

This is a continuation of an earlier session; see page 40 for a complete session synopsis.
10:15 – 11:45 a.m. continued

Microsurgery–Theory and Practice
Garrett M. Guess, D.D.S.
San Diego, Calif.
Raed S. Kasem, D.D.S., M.S.
Clearwater, Fla.
Syngcuk Kim, D.D.S., Ph.D.
Samuel I. Kratchman, D.M.D.
Exton, Pa.
Moderator: Bradford R. Johnson, D.D.S.
Chicago, Ill.

This is a continuation of an earlier session; see page 40 for a complete session synopsis.

A New Vision of Endodontic Surgery
Bertrand G. Khayat, D.D.S., M.S.D.
Paris, France

Moderator: Patrick E. Taylor, D.D.S.
Bellevue, Wash.

For many years, endodontic surgery has been considered the last treatment option and emphasis was placed on conventional retreatment. With the development of new instruments and techniques it is now possible to perform almost any endodontic procedure from the surgical approach. After reviewing the literature, this presentation will focus on the new instruments with several clinical illustrations.

At conclusion, participants should be able to:
• Describe the percentage of success of surgical endodontics compared to nonsurgical endodontics.
• Describe the new ultrasonic tips and the latest techniques in modern endodontic surgery.
• Evaluate the tremendous value of the surgical approach in our treatment options.

The Magic of Mastering the Glide Path: What Every Endodontist Should Know
John D. West, D.D.S., M.S.D.
Tacoma, Wash.

San Antonio, Texas

“He/she who masters the endodontic glide path wins the rotary game.” It’s that simple. The knowledge, skill and willingness to consistently produce the endodontic glide path is a critical distinction of a great endodontist’s reputation. No other technical skill has more value to the referring dentist. This presentation is full of pure “what you need to know” pearls about glide path mastery, why it is essential to the endodontist, how to produce the glide path in the face of pressures to do otherwise, and when the magic doesn’t work, what do you do?

At conclusion, participants should be able to:
• Describe and measure the finishing checklist for the glide path.
• Master the three essential skills of consistently producing the glide path.
• Implement the four manual motions of glide path preparation.

SOFTWARE USER GROUP MEETINGS

All current users of the following endodontic software programs are invited to attend user group meetings.

Friday, April 16

1:45 – 3:15 p.m.
EndoVision: Room 11A/SCC
TDO: Room 11B/SCC

3:30 – 5 p.m.
EndoTrak: Room 11B/SCC
PBS Endo: Room 11A/SCC
SP-306  Room 4

ABE Boardwalk

Linda G. Levin, D.D.S., Ph.D., President
Durham, N.C.

The Boardwalk presentation is given by the directors of the American Board of Endodontics. It is intended to provide valuable information regarding the Certification Process. The directors will be introduced to the attendees and a detailed explanation of the examination sequence will be provided. Helpful hints for preparation for the Written, Case History Portfolio and Oral Examinations will be outlined. The current timeline for progression through the Certification Process will be detailed along with current recertification guidelines. At the conclusion of the presentation, the ABE directors will field questions from the attendees regarding topics pertaining to endodontic Board Certification.

At conclusion, participants should be able to:
• Describe the different levels of candidate status for Board Certification.
• Describe the sequence and timelines for examinations required for endodontic Board Certification.
• Describe the requirements for recertification.

Additional Presenters—American Board of Endodontics Board of Directors:
Stephen J. Clark, D.M.D., Secretary
Ashraf Fouad, B.D.S., D.D.S., M.S., Treasurer
John F. Hatton, D.M.D.
Michael M. Hoen, D.D.S.
James D. Johnson, D.D.S., M.S.
Karl Keiser, D.D.S., M.S.
Alan S. Law, D.D.S., Ph.D.
Patrick E. Taylor, D.D.S.

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SP-307  Room 9

Alternatives to Achieve Successful Maxillary and Mandibular Dental Anesthesia Using a Computer-Controlled Local Anesthetic Delivery System

Allen R. Helfer, D.D.S.
Stamford, Conn.

Mark Hochman, D.D.S.
Great Neck, N.Y.

Moderator: Richard E. Walton, D.M.D., M.S.
Iowa City, Iowa

Effective dental local anesthesia is a multifactorial outcome and all endodontists must be able to provide both comfortable and predictable dental local anesthesia to successfully treat patients. Having a myriad of alternatives has been shown to be the most effective way to achieve these objectives. This session focuses on discussing new injection techniques (AMSA, P-ASA, STA-Intraligamentary Injection) that have been developed in conjunction with an innovative computer-controlled local anesthetic delivery system. Understanding the basis of this technology and how these new techniques can benefit and be integrated into clinical practice will be discussed. A review of the dental literature on the topic of pain disruptive behavior will also be provided.

At conclusion, participants should be able to:
• Identify new alternative techniques for effective, safe and comfortable dental anesthesia.
• Describe how operator and patient stress/anxiety can be reduced utilizing this technology.
• Describe how this alternative provides benefits to the successful practice of contemporary endodontics.
1:45 – 2:45 p.m.

SP-308  Room 14A

Sedation in Endodontics

Robert G. Saylor, D.D.S.
State College, Pa.

Moderator: Howard J. Sorensen, D.D.S.
Yuma, Ariz.

In today’s modern endodontic practice, practitioners are frequently referred patients with many treatment challenges (i.e., dental anxiety, severe pain and inflammation or gag reflex). As specialists, we are often considered the “end point” for a patient’s treatment. The incorporation of sedation into today’s modern endodontic practice can help overcome many of our patient’s barriers in treatment and achieve our ultimate goal in treating the patient comfortably and efficiently.

At conclusion, participants should be able to:
• Describe the circumstances in which patients may benefit from sedation.
• Describe the pharmacological management and monitoring of the sedated patient.
• Describe the benefits and incorporation of sedation into the modern endodontic practice.

1:45 – 3:15 p.m.

NS-308  Room 1

New Methods for Negotiating and Shaping Canals

Clifford J. Ruddle, D.D.S.
Santa Barbara, Calif.

Moderator: Thomas A. Levy, D.D.S., M.S.
Aliso Viejo, Calif.

This presentation will identify a new concept for securing and shaping canals. The essential elements for success including a new instrument and method for managing the glide path, and preparing and finishing canals will be emphasized. This presentation will focus on the most recent advancement in NiTi files, including metals, geometries and a unique method of use. Special attention will be directed to minimally invasive endodontics and creating shapes that promote 3-D disinfection and obturation.

At conclusion, participants should be able to:
• Identify a new method for glide path management.
• Compare traditional NiTi shaping methods with a new single-file technique.
• Describe how the final shape influences 3-D disinfection and obturation.

NS-309  Room 3

Single-Visit Treatments—Long-Term Outcome

Fernando Goldberg, D.D.S., Ph.D.
Buenos Aires, Argentina

Moderator: Fred S. Tsutsui, D.M.D.
Torrance, Calif.

The presentation will focus on the ability of cleaning, shaping and filling the root canal system in a single-visit therapy in order to obtain successful endodontic outcomes. A long-term follow-up of several cases of conventional treatment, as well as retreatment that has been performed with different instrumentation and obturation techniques utilizing a wide range of sealers and materials will be discussed.

At conclusion, participants should be able to:
• Describe the importance of single-visit endodontic treatment in long-term outcome.
• Describe the importance of evidence-based therapy.
• Identify the advantages of single-visit endodontic treatment versus multiple-appointment treatment.
Energize Your Life and Your Practice

Gerry Morton, M.S., M.B.A.
Manhattan Beach, Calif.

Moderator: W. Craig Noblett, D.D.S., M.S.
Berkeley, Calif.

The keys to high-energy living through balanced nutrition, effective exercise, strategic supplementation and stress management will be revealed. The presentation will supply tips for how to transform your body into an energy-producing machine (based on the latest biochemistry and exercise physiology research); will provide motivation to adopt energizing lifestyle habits; and will give practical guidelines on sustaining peak energy and health in any circumstance—at home with family, at the office and on the road.

At conclusion, participants should be able to:
• Describe how the state of your dental health can also indicate risk of diseases like Type 2 diabetes, heart disease and stroke.
• Describe the six keys to optimal health and energy.
• Describe the link between low antioxidant levels and chronic periodontal disease.

Estate and Asset Protection

Lawrence F. Andrews Jr., CFP
La Jolla, Calif.

Moderator: Bradley H. Hajdik, D.D.S.
Katy, Texas

Every person’s financial situation and objectives are different and unique. This session will assist you in understanding your financial objectives and deliver potential solutions to help meet unique individual needs. A disciplined approach to managing and growing your wealth will be presented. Emphasis will center on the 13 wealth management issues commonly facing high net worth individuals, business owners and families. A panel of experts will address each of these wealth management issues as they may affect your individual needs. This session will help give guidelines for creating a wealth management plan that will serve practitioners throughout their careers and personal life.

Dealing With Confrontation in the Office

Linda K. Forrest
Colorado Springs, Colo.

Linda G. Levin, D.D.S., Ph.D.
Durham, N.C.

Mark A. Odom, D.D.S.
Cary, N.C.

Jane Peck, M.B.A.
Colorado Springs, Colo.

Moderator: Judy D. McIntyre, D.M.D., M.S.
Franklin, Mass.

This panel of experts boasts plenty of practice management experience to share their thoughts, vignettes and situations they have faced over the years. Invited speakers from diverse practice environments will answer your questions and share their learning experiences with the hope that in doing so, they will assist you/your office to deal with conflict in the best manner possible.

At conclusion, participants should be able to:
• Deal with any potential conflict with confidence.
• Utilize their personal skills and language to handle stressful staff, patient or referring doctor situations.
• Identify areas of potential conflict and develop proactive systems and strategies to reduce conflict in the office.
1:45 – 3:15 p.m.  continued

PS-302  Room 7A

Introduction to Dental Implants for Dental Assistants

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

Moderator: Debra L. Welters, R.D.A.
Eagan, Minn.

This session is designed to instruct dental assistants on implant dentistry. Basic information on dental implants including armamentarium and implant placement will be presented. The indications for implant placement and current endodontic treatment options to save a tooth will be reviewed. The role of the assistant in patient education will be discussed.

At conclusion, participants should be able to:
• Describe basic knowledge on dental implants.
• Identify different endodontic treatment options to save a tooth.
• Identify the true indications for implant placement.

PS-303  Room 14B

CPR and Basic Life Support Workshop

LifeGuard Medical Solutions
Nashville, Tenn.

Workshop Fee: $60 early/$70 standard

This is a repeated session; please see page 40 for a complete session synopsis.

S-304  Room 2

Aesthetic Principles of Soft Tissue Management in Microsurgical Endodontics

Ali Fakhry, D.M.D., M.S.
Iowa City, Iowa

Moderator: Anne E. Williamson, D.D.S., M.S.
Iowa City, Iowa

This presentation reviews the fundamentals of soft tissue management in microsurgical endodontics. Emphasis will be placed on achieving optimal soft tissue healing using microsurgical principles. Topics covered will include a discussion of wound closure and tissue-healing patterns, a review of flap and incision designs aimed at reducing scars as well as a demonstration of various microsuturing techniques and microsurgical armamentaria aimed at reducing scar formation.

At conclusion, participants should be able to:
• Define the various wound closure and tissue-healing patterns.
• Describe scar-reducing approaches to soft tissue handling.
• List the benefits of microsurgical techniques and armamentaria used in endodontic surgery.
Evidenced-Based Rationale for Surgical Choices in Techniques and Materials

James L. Gutmann, D.D.S.
Dallas, Texas

Moderator: Anita Aminoshariae, D.D.S.
Pepper Pike, Ohio

The explosion of information in the delivery of predictable surgical endodontic procedures has enabled the clinician to make many evidence-based choices in treatment and material selection. This presentation will explore the studies that have been used both historically and contemporarily to form the basis for treatment decisions in both treatment planning of surgical intervention and in the application of surgical techniques and materials. Studies that are evidenced-based will be analyzed as to their level of importance and attention will be paid to surgical outcomes. In particular, data will focus on present-day issues of tooth retention, using surgical endodontic procedures versus extraction and replacement with some type of prosthesis. The impact of materials science relative to its impact on tissue repair and regeneration will also be addressed.

At conclusion, participants should be able to:
• Identify and discuss key studies both historically and contemporarily that have impacted current choices in surgical endodontics.
• Distinguish studies that are the best evidence for a specific choice in surgical endodontics from those that are evidence-based when choosing specific technical procedures and materials in surgical endodontics.
• Characterize and compare studies that are evidence-based in the realm of surgical endodontics into levels of evidence and applicability for optimal clinical success.

Completing the Journey: A Guide Through the ABE Certification Process With a Recent Recipient

Lester J. Quan, D.D.S.
Hillsborough, Calif.

Moderator: Daniel J. Simon, D.D.S.
San Francisco, Calif.

In 2004, Dr. Quan decided to complete his clinical career in endodontics by achieving Diplomate status. He successfully took Part I in November 2005, 20 years after receiving his Certificate in Endodontics. He proceeded to complete Parts II and III in 2006, and was awarded Diplomate status in November 2006. The entire process was completed in one year. Dr. Quan chronicled the process and assembled his study material into a guide for preparing for the Boards. His experiences and the content of the study guide are the basis for this presentation. Each attendee will receive a copy of the entire study guide in DVD format.

At conclusion, participants should be able to:
• Describe all the parts of the ABE Certification Process.
• Describe the components of Dr. Quan’s study guide DVD.
• Use the study materials contained on the study guide DVD.
When nonsurgical root canal treatment in a molar fails, endodontic surgery is an alternative to extraction and placement of a bridge or an implant. Presence of bacteria within the root canal system is the main cause of failures. Like in other teeth, the main purpose of performing a molar surgery is to remove undebrided canal space and seal the canal(s) completely when this task cannot be accomplished through a coronal approach. Indications for a molar surgery include: complex root canal anatomy, irretrievable materials in the root canal, procedural accidents requiring surgery, persistent symptomatic cases, refractory lesions and biopsy. Many advances in surgical techniques and instrumentation have occurred over the past few decades. These advancements have resulted in better outcomes for endodontic surgery. In this live demonstration, the audience will observe how a molar surgery is performed with new materials and techniques.

At conclusion, participants should be able to:
- Discuss the indications and contraindications for molar surgeries.
- Describe the proper flap design for molar surgeries.
- State how to perform root-end resection, root-end cavity preparation and placement of root-end filling material in a molar surgery.

This course presents a predictable technique for the removal of canal obstructions and separated instruments. The removal of these obstructions in most cases allows for complete debridement and obturation of the root canal system, thus improving the long-term prognosis.

At conclusion, participants should be able to:
- Evaluate the anatomic anomalies in the root canal system to consider when utilizing this technique.
- Identify the armamentarium required.
- Perform the technique for removing obstructions and separated instruments.

For the last several years, approximately 200 endodontic residents have taken the written portion of the American Board of Endodontics Certification Process each year. Unfortunately, with the next part of the process, the Case History Portfolio, the number of submissions falls off dramatically. One possible explanation for this is that the Case History Portfolio takes time and effort to assemble. Mentors are needed to review those portfolios prior to submission to enhance its potential for success. This session is designed to help mentors evaluate portfolios of the ABE candidates. Mentors must know how to evaluate individual cases within the portfolio for proper case selection, missing dates, improper dates, poor grammar and spelling, and a multitude of other factors that can cause a portfolio to fail. Candidate’s efforts must not be allowed to fail. Candidates in the process of assembling their portfolios are also welcome.

At conclusion, participants should be able to:
- Determine the proper level of difficulty for cases in a portfolio.
- Spot fatal errors in the construction of a portfolio.
- Explain to a candidate the timelines for submission and how portfolios are graded.
All endodontists have treated cases that will never be forgotten. Either the patient, the difficulty or the circumstances made a particular case memorable. Nine practicing endodontists with more than 300 collective years of experience will each share a memorable case that tested their knowledge, skills, discipline, courage, experience and, to no lesser degree, the healing potential of the patient. Participants will more than likely face somewhat similar situations with the realization that a practicing endodontist is often the last resort in a patient’s fight to ward off the beaks of a forceps. This is what makes endodontists unique and explains the need to sometimes go to the edge of treatment to meet a patients’ desire to keep their teeth.

At conclusion, participants should be able to:
• List rationales for treating exceptionally difficult cases.
• Describe innovative methods and techniques beyond the norm.
• Feel comfortable raising the treatment bar.

Additional Participants:
Arnaldo Castellucci, D.D.S., M.D.
Noah Chivian, D.D.S.
Jean-Yves G. Cochet, D.D.S.
Carl W. Newton, D.D.S., M.S.D.
Terryl A. Propper, D.D.S., M.S.
Barnet B. Shulman, D.D.S.
Denis E. Simon III, D.D.S., M.S.
Kenneth Spolnik, D.D.S., M.S.D.
PS-304 Room 7A

It’s Not My Job—The Value of Cross Training

Debbie Best
Livermore, Calif.

Moderator: Deborah Francavilla
Peabody, Mass.

Successful dental practices embrace the power of teamwork to allow them to offer exceptional service to patients. Lose the “it’s my job” and the “it’s not my job” mentality. Learn the value of cross training between all positions in the office, including how to set up a training program for each area of the practice and coach team members to embrace the philosophy of “it’s our job or career.”

At conclusion, participants should be able to:
• Describe the value of cross training in each position of the practice.
• Describe how to eliminate the barriers between the clinical and administrative duties.
• List the benefits of cross training to enhance patient care.

S-306 Room 5

Sinus Management in Microsurgery

Gabriele Pecora, M.D., D.D.S.
Rome, Italy

Moderator: Kevin A. Deardorf, D.D.S., M.S.D.
Indianapolis, Ind.

The maxillary sinus represents a limit in endodontic surgery and is one of the greater causes of the intra- and post-surgical problems. The anatomy as well as the physiology of the maxillary sinus will be discussed. An operative protocol of the membrane’s perforation will be faced. A diagnostic evaluation plan as well as the surgical sinus involvement will be presented. The extension of endo-perio lesions into the sinus and the iatrogenic lesions will be discussed regarding the diagnosis and the treatment of complications.

At conclusion, participants should be able to:
• Identify the anatomy of maxillary sinus.
• Describe the operative protocol of the membrane’s perforation.
• Describe ways to manage intra- and post-operative complications.

S-304 continued Room 2

Aesthetic Principles of Soft Tissue Management in Microsurgical Endodontics

Ali Fakhry, D.M.D., M.S.
Iowa City, Iowa

Moderator: Anne E. Williamson, D.D.S., M.S.
Iowa City, Iowa

This is a continuation of an earlier session; see page 50 for a complete session synopsis.
Root Canal Treatment or Dental Implant: Which One is Best?

Charles J. Goodacre, D.D.S., M.S.D.
Loma Linda, Calif.

Moderator: Karl Keiser, D.D.S., M.S.
New Braunfels, Texas

This presentation will discuss the factors that determine whether root canal treatment should be performed or whether the tooth should be extracted and a dental implant placed. The best-available scientific evidence and clinical experience will be presented along with examples of the results, both good and less than optimal, obtained using both treatment modalities. Special emphasis will be placed on esthetic challenges and which treatment will provide the best esthetic result.

At conclusion, participants should be able to:
• Identify the factors that should be considered when determining whether to perform root canal treatment or extract a tooth and place an implant.
• Compare the clinical survival rates of root canal treatment, conventional fixed partial dentures and dental implants.
• Compare root canal treatment and dental implants based on biologic factors, required adjunctive procedures, tooth condition, cost and ethics.

A JOE Update: What’s New? How do I Submit or Review a Manuscript?

George A. Bruder III, D.M.D.
Stony Brook, N.Y.

Kenneth M. Hargreaves, D.D.S., Ph.D.
San Antonio, Texas

Moderator: Lawrence M. Le Vine, D.D.S.
San Rafael, Calif.

Your Journal of Endodontics has gone through a lot of changes over the last few years and several more are currently in development. This is a great opportunity to learn about these new initiatives that are provided in both the online and print editions of the Journal. In addition, we will review the steps involved in preparing and submitting a manuscript to the Journal, and offer tips for how to review a manuscript.

At conclusion, participants should be able to:
• Describe the latest online and print initiatives of the JOE, including tips for quickly obtaining access to the evidence-based literature.
• Describe how to prepare a manuscript and submit it to the Journal.
• Describe how to serve as a member of the Scientific Advisory Board in providing outstanding peer reviews of manuscripts.

Resident and New Practitioner Career Fair

If you are an endodontist seeking an associate, or a resident/new practitioner looking for a job, this is the place to be. The Resident and New Practitioner Committee invites current residents, new endodontists (practicing five years or less) and employers to mingle and meet. This is a chance to visit one-on-one and learn about the variety of employment opportunities that the speciality offers. Representatives from different practice environments, as well as academia, research and service branches will be on hand to discuss their needs for employees. Participants are encouraged to bring copies of their CVs and contact information.

At conclusion, participants should be able to:
• Describe employment goals more clearly.
• Create contacts that may help to secure future employment.
• List the larger spectrum of practice/employment opportunities.

This session is planned by the Resident and New Practitioner Committee:
Kimberly A.D. Lindquist, D.D.S., Chair
Drew R. Brueckner, D.M.D.
Darren H. Hess, D.D.S.
Kerri L. Lawlor, D.D.S.
Judy D. McIntyre, D.M.D., M.S.
Chris R. Sabourin, D.D.S.
David C. Funderburk, D.D.S., M.S., Board Liaison

Please Note: The Resident Reception will take place immediately following this session on the West Terrace.
Focused Field Cone Beam-Computed Tomography in Endodontic Practice

Martin D. Levin, D.M.D.
Chevy Chase, Md.

Moderator: Royeen Nesari, D.D.S.
San Francisco, Calif.

Endodontic therapy depends on diagnostic radiographs and image-guided treatment. Periapical and panoramic radiography have been augmented by the recent introduction of high-resolution focused field CBCT, allowing three-dimensional assessment of odontogenic and nonodontogenic lesions, canal morphology, root and alveolar fractures, resorptive lesions and anatomy prior to surgery. This lecture will highlight the advantages of CBCT imaging in light of recent research demonstrating a significant increase in lesion visualization when compared to periapical radiographs.

At conclusion, participants should be able to:
• Describe focused field high-resolution CBCT imaging and how it differs from standard dental CBCTs and medical CTs.
• Explain how volumetric analysis is used to detect endodontic and nonendodontic pathosis.
• Describe how to select cases for high-resolution focused field CBCT examination.

Decision Making: Root Canals or Implants–Let’s Stop the Debate and Understand the Rationale

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

Moderator: Adam Lloyd, B.D.S., M.S.
Memphis, Tenn.

Dentists often face the challenge to choose between nonsurgical or surgical retreatment, or extraction and implant placement. This video-animated presentation will demonstrate how advancements in 3-D imaging, instruments, and bone-grafting materials have changed our approach in philosophy and treatment of endodontic post-treatment disease. The clinical cases shared in the presentation will focus on the step-by-step techniques to guide each case to successful completion. Information will be given on the relevant issues affecting treatment planning for single-tooth dental implant restorations and how this treatment option can be considered for the restoration of the “questionable” single tooth.

At conclusion, participants should be able to:
• Utilize the new technology available (3-D imaging, dental operating microscope, ultrasonics and different bone-grafting material) to improve the diagnosis and prognosis of cases with post-treatment disease.
• Discuss procedures and materials utilized in single-tooth extraction and socket preservation.
• Establish the correct strategy to achieve a good prognosis well before the beginning of the treatment (nonsurgical, surgical or single-tooth implant).
9:15 – 10:45 a.m.

**HTC-400**  
**Bisphosphonates**  
John W. Hellstein, D.D.S., M.S.  
Iowa City, Iowa

**Moderator:** Matthew J. Royal, D.D.S.  
Duluth, Minn.

Discussion of the evolving and ever-increasing case management decisions regarding bisphosphonates and endodontics. Participants will be able to better apply proper preventative techniques to avoid osteonecrosis of the jaw and better apply treatment protocols for their patients.

At conclusion, participants should be able to:

- Identify products tied to bisphosphonate-associated osteonecrosis of the jaws.
- Describe the properties of the products discussed.
- Recognize the different risk factors associated with the intravenous versions of these medications as well as the oral versions of the medications.

**NS-400**  
**Root Canal Irrigation: How Effective Is It?**  
Jeffrey M. Coil, D.M.D., Ph.D.  
Vancouver, British Columbia, Canada

**Moderator:** Rafael A. Roges, D.D.S.  
Los Angeles, Calif.

This presentation will review the different methods of root canal irrigation and examine the available solutions and methods for delivery. Evaluation of the success of different delivery systems and irrigation devices will be presented. Effectiveness of root canal irrigation and the interaction between different agents with the root canal dentin will be discussed.

At conclusion, participants should be able to:

- Describe the different methods of root canal irrigation.
- Describe the different solutions and how they are used for root canal irrigation.
- Describe the chemical and biological effects different irrigation solutions have with each other and with the dentin.
9:15 – 10:45 a.m.  continued

**NS-401 Room 4**

**Microbe Wars**

Paul D. Eleazer, D.D.S., M.S.  
*Birmingham, Ala.*

*Moderator: Richard C. Wittenauer, D.D.S.*  
*Mission Viejo, Calif.*

This presentation will concentrate on recent advances and concepts in microbiology that are of interest to endodontic clinicians.

At conclusion, participants should be able to:

• Describe the inadequacies of canal sterilization.
• Describe pathways and consequences of infection spread from oral sites.
• Describe controversies regarding antimicrobial drug use.

**PM-400 Room 5**

**Risk Management for the Endodontic Practice: Case Studies and Analysis**

Kathleen M. Roman, M.S.  
*Greenfield, Ind.*

*Moderator: Bruce C. Justman, D.D.S.*  
*Iowa City, Iowa*

All dentists must protect patient safety and strive to establish positive working relationships with members of the health care team. However, endodontists may face additional risk management factors that are more commonly seen in oral or medical surgery than in the general dental practice. This program identifies risk management factors that are specific to the endodontic practice. It uses actual malpractice lawsuits to stimulate discussion and help participants update their own risk management programs.

At conclusion, participants should be able to:

• List risk factors that are specific to the practice of endodontics and explain ways in which these risk factors can be prevented or mitigated.
• Conduct practice-focused assessments to identify ongoing risk areas.
• Design and implement risk management practices that reduce risk and improve patient safety and staff satisfaction.

**PM-401 Room 8**

**Secrets of a Highly Effective and Happy Team**

Albert C. Goerig, D.D.S., M.S.  
*Olympia, Wash.*

*Moderator: Karen S. Potter, D.D.S.*  
*Overland Park, Kan.*

This program is designed as an office renewal to bring back the teamwork and excitement of dentistry into the office, and move the office to the next level in practice success and enjoyment. You will learn how to find, hire and empower an incredible team. We will look at techniques for reducing office stress while increasing enjoyment of your practice. Learn the skills to improve office communication and ideas to increase team morale and address and fix office unrest. This presentation will give your staff both the strategies and tools necessary to achieve true practice miracles.

At conclusion, participants should be able to:

• Describe how to revitalize the office spirit to bring back the teamwork, fun and excitement of dentistry into the office.
• Describe the techniques for reducing office stress and unrest while increasing enjoyment of your practice.
• Apply the skills to improve office communication and ideas to increase team morale.

**PS-400 Room 9**

**Creating a Better You**

Christine Dumas  
*Palos Verdes Estates, Calif.*

*Moderator: Terryl A. Propper, D.D.S., M.S.*  
*Brentwood, Tenn.*

Drive, determination and knowing where you want life to take you are part of the equation for success. At each step of the way, this presentation emphasizes the importance of never letting traditional expectations keep you from having your preferred life—one that is custom-made for you. Go beyond thinking “outside the box” with intuitive, innovative and entertaining ideas for everything from financing your practice, to doing whatever you feel passionate about, to seamlessly changing course in life as opportunities present themselves—allowing you to create the very best life possible.

At conclusion, participants should be able to:

• Learn new ideas for financing your practice or pursuing a new passion.
• Identify what steps you can take to create your best life.
• Describe their best possible life.
### 9:15 a.m. – 5 p.m.

**NS-402**

**Retreatment Workshop**

Frederic Barnett, D.M.D.  
*Narberth, Pa.*

Joseph S. Dovgan, D.D.S., M.S.  
*Paradise Valley, Ariz.*

Terrell F. Pannkuk, D.D.S., M.S.D.  
*Santa Barbara, Calif.*

**Moderators:**  
Amber T. Chu, D.D.S.  
*Monterey Park, Calif.*  
Arash Niazi-Sharaki, D.D.S.  
*San Diego, Calif.*

**Workshop Fee:** $800 early/$850 standard (includes lunch)

This retreatment lecture/hands-on program will encompass all aspects of the nonsurgical retreatment of gutta-percha, carrier-based obturators and separated files.

At conclusion, participants should be able to:

- Describe and perform the techniques required to remove gutta-percha filling materials.
- Describe and perform the techniques required to remove carrier-based obturators.
- Describe and perform the techniques required to remove separated endodontic files.

### 11 a.m. – noon

**SP-402**

**Maximizing the Use of Dental Assistants While Performing Microsurgical Endodontics**

Timothy J. Temple, D.M.D.  
*Orlando, Fla.*

**Moderator:** Lynne A. Baldassari-Cruz, D.D.S.  
*Palo Alto, Calif.*

The use of the surgical microscope in endodontics is now the standard of care. Utilizing our dental auxiliaries/assistants effectively while working with the microscope can increase the efficiency and quality of care we provide. Video will be shown and a question-and-answer session will occur with course participants.

At conclusion, participants should be able to:

- Identify proper positioning of doctor and assistants during treatment.
- Identify proper placement of armamentarium.
- Arrange for optimal use of dental assistants while performing microsurgical endodontics.

### Session of Interest to:

- Educators
- Resident and New Practitioners
- Endodontic Team
- Workshop
- Master Clinician Series
- Not Accepted by the Dental Board of California
**SP-404 Room 7B**

**Irrigation: Concepts, Success and Failure**

Taner C. Sayin, D.D.S., Ph.D.
Fort Lauderdale, Fla.

**Moderator: Markus Haapasalo, D.D.S., Ph.D.**
Vancouver, British Columbia, Canada

Successful root canal treatment can only occur with an appropriate irrigation protocol. To date, many solutions and delivery systems have been investigated and proposed to improve the quality of intracanal disinfection. A thorough evaluation of previous research including irrigation delivery devices and ultrasonic and heat activation of irrigants will be presented. Additionally, the risks, benefits and interactions between irrigants and the structural changes to dentin after the application of irrigation procedures will be discussed.

At conclusion, participants should be able to:
- Assess the efficacy of different irrigation protocols on treatment outcome.
- Compare which delivery systems would enhance root canal system disinfection.
- Recognize which irrigant regimens cause physical changes in dentin and how it affects bonded obturation.

**NS-403 Room 4**

**Endodontic Treatment in the Older Adult: Saving Natural Teeth**

Elizabeth M. Saunders, B.D.S., Ph.D.
Perthshire, Scotland

**Moderator: Drew R. Brueckner, D.M.D.**
Winnipeg, Manitoba, Canada

Increasing numbers of adults are retaining their teeth into old age and indeed are keen to do so. Many of these teeth, while being worn or heavily restored, are strategic and their retention can play a very significant role in the quality of life for an elderly person. The appropriateness of preserving elderly teeth by means of endodontic treatment must be part of a sensible and fitting treatment plan specific to each individual patient. The fundamental principles for successful root canal treatment are the same irrespective of the age of the patient. However, age changes in the dental pulp can prove challenging in diagnosis, access and also preparation of calcified, curved canals. Medical considerations can also impact endodontic treatment in the elderly. The clinical management of general and specific problems that can be associated with endodontic treatment in the aging patient will be highlighted in this presentation.

At conclusion, participants should be able to:
- Describe problems associated with diagnosis and treatment planning in the heavily restored elderly dentition.
- Describe age changes found in the pulp/dentine complex and how these can impact endodontic treatment.
- Describe how to access, prepare and obturate the calcified root canal system routinely found in elderly teeth.
A high percentage of cases confirmed as healthy by radiographs revealed apical periodontitis on cone beam-computed tomography and by histology. In teeth where reduced size of the existing radiolucency was diagnosed by radiographs and considered to represent periapical healing, enlargement of the lesion was frequently confirmed by CBCT. First, a consensus should be reached that the success rate reported in previously published outcome studies is likely to be an overestimation. A discussion on whether all asymptomatic post-treatment apical periodontitis should be treated and the replacement of periapical radiography with CBCT in clinics should follow.

At conclusion, participants should be able to:

• List limitations of previously published outcome studies.
• Describe why the percentage of favorable outcome determined by CBCT can be noticeably lower than that determined by periapical radiography.
• Participate in a discussion on whether all asymptomatic post-treatment apical periodontitis should be treated and the replacement of periapical radiography with CBCT in clinics.
Endodontic surgery has evolved from a conventional surgery to a microsurgery. Through this fundamental change, we can now locate and treat second and third molars plus palatal roots. The prognosis of endodontic surgery can be affected by the presence of serious anatomical elements such as the maxillary sinus. In such cases, the surgeon will be facing two situations: whether the apex is in close contact with the sinus membrane or the apex is in the sinus. Retro preparation and retro filling will be performed through the sinus cavity instead of the bone cavity. In addition, new retrotips are available, manufactured according to a specific design facilitating the access to the posterior area and also deeply inside the sinus cavity. The objective of this new technique is to increase the rate of success of the surgical act for difficult endodontic conditions and to cure formerly incurable teeth.

At conclusion, participants should be able to:
• Describe how to locate the apex inside the sinus cavity.
• Describe how to manipulate the sinus membrane.
• Increase the rate of success of the surgical act and cure formerly incurable teeth.

The main advantage of using micro-computed tomography (µCT) as a tool in endodontic research lies in the fact that the specimen under investigation can be kept intact during experimental procedures, permitting repeated examinations. Recent advances in µCT image analysis allows the depiction of canal areas that are not altered during instrumentation (so-called “untouched” areas), illustrating the limitations of root canal instrumentation in canal debridement. Even more recently, novel software allows for visualization and quantification of hard tissue debris accumulated during instrumentation. The images that can be obtained in root canals with multiple fins and ramifications are rather dramatic and show a side effect of root canal instrumentation that has gained little attention thus far. Consequently, the impact of different irrigation regimes on the accumulation of hard tissue debris can be visualized using µCT image analysis. This presentation will give an overview of current endodontic research using µCT. It will discuss the results and the possible clinical implications achieved with these novel µCT applications.

At conclusion, participants should be able to:
• Describe the principles of research using micro-computed tomography, identify the limitations of this method and its possible clinical relation.
• Discuss the challenging root canal anatomy regarding thorough preparation and debridement of the root canal system.
• Explain the influence of different irrigation regimes on the removal of hard tissue debris from the endodontic system.
EDUCATIONAL SESSIONS

PM-402 Room 5

Grow Your Business: The System and Principles a Dentist Can Teach You to Achieve Success

Joseph J. Capista, D.D.S.
Media, Pa.

Moderator: Jane Peck, M.B.A.
Colorado Springs, Colo.

This presentation will share a three-pronged approach to business success, which will encompass the areas of product (our dentistry), internal and external marketing, a systemized case presentation and a systemized office visit, and the relationship each of these areas has to the other. The challenge of developing and learning systems, how to read your patient’s “behavior style,” and change your behavior to match theirs in order to form an above-average relationship that includes trust and confidence, will be discussed. The five-part formula for TOTAL SUCCESS, where you will learn how to achieve success and happiness in both your professional and personal life, will also be reviewed. You’ll learn that a large part of being successful is the ability to keep relative balance in various areas of your life.

At conclusion, participants should be able to:
• Describe the three-pronged approach to business success and how these parts impact each other.
• Describe the behavior style of your patients using the DISC behavior profiles.
• Describe “The Five Parts of Success” in your business and personal life.

PM-403 Room 8

Four Generations + Two Genders = One Workplace

Susan Murphy, M.A., M.B.A., Ph.D.
Rancho Mirage, Calif.

Moderator: Bruce C. Justman, D.D.S.
Iowa City, Iowa

For the first time in history, four generations are working side-by-side in one workplace. This humorous, research-based presentation reveals what shapes our values and communication styles, as well as how to attract, hire and retain talented members of each generation and gender.

At conclusion, participants should be able to:
• Explore communication styles and attributes of generations and genders.
• Recognize and value differences between genders.
• Describe how to work with men and women in our professional and personal lives.
1:45 – 3:15 p.m. continued

SP-405 Room 7A

Educator Forum: How to Create a Culture of Mentoring to Enhance Career Development of Faculty

Paula O’Neill
Houston, Texas

Moderator: John P. Braud Jr., D.D.S.
Northville, Mich.

Recruitment and retention of faculty are critical issues in contemporary dental education. It is important for newly recruited and existing faculty members to feel valued and supported in order to ultimately become contributing members of the department and school. This session will provide participants, including faculty and administrators, with useful insights, principles and practices to assist in creating a culture of mentoring. Participants will discover faculty, departmental and institutional benefits of creating a mentoring culture that focuses on the intentionality of the process. Using an interactive approach, participants will be exposed to proven strategies and specific steps to create mentoring relationships to facilitate career enhancement.

The American Dental Education Association business meeting will occur during the first 15 minutes of the presentation.

At conclusion, participants should be able to:
• Describe best practices for building mentoring relationships.
• Evaluate and determine effective strategies for mentoring faculty to assist in creating a culture of mentoring.
• Create strategies and processes to implement mentoring relationships and programs to foster career growth and development.

This session is planned by the Educational Affairs Committee:
John P. Braud Jr., D.D.S., Chair
Thomas J. Beeson, D.D.S.
Bekir Karabucak, D.D.S., M.S.
Frederick R. Liewehr, D.D.S., M.S.
André K. Mickel, D.D.S., M.S.D.
Mychel M. Vail, D.D.S.
James D. Johnson, D.D.S., M.S., ADEA CHAEP Representative
Bruce C. Justman, D.D.S., ADEA Councilor
Nicklaus A. Morton, D.D.S., Student
Steven Roberts, D.D.S., Board Liaison

SP-407 Room 3

New Camera Technology and Photographic Skills

Eric J. Herbranson, D.D.S., M.S.
San Leandro, Calif.

Moderator: John D. Regan, B.D.Sc., M.Sc., M.S.
Plano, Texas.

Digital still and video camera technology is rapidly changing and their capabilities are merging. Current video cameras take good still images and high-end SLR still cameras now offer decent video. Both types of cameras can be used for microscope imaging. This lecture will review and compare the technologies and how they affect the endodontist’s equipment decisions for microscope imaging. It will also review the storage and processing software necessary for the two types of cameras. The second part will review the basic fundamental skills necessary for good clinical imaging and briefly review photo editing. A list of resources will be provided for further study.

At conclusion, participants should be able to:
• Describe the functional and performance difference between digital video and digital still cameras when applied to microscope photography, as well as how they compare to wand-type intraoral cameras.
• Make an informed purchase decision based on their particular clinical imaging needs.
• Describe the basic skills necessary to produce good clinical images.
3:30 – 4:30 p.m.

**SP-408**

Emerging Technologies and How They are Changing Dental Education

Lynn A. Johnson, Ph.D.
Ann Arbor, Mich.

Moderator: John P. Braud Jr., D.D.S.
Northville, Mich.

The impact that electronic health records, digital imaging, e-mail, Web sites and other established information and communication technologies in patient care is well understood. However, the impact of new and emerging technologies on dental education is constantly changing. The admission process is starting to use Web 2.0 techniques; information-based courses are using podcasts; decision-making is being taught with cognitive simulations; procedure techniques are enhanced with tactile simulations, and professionalism is being developed with e-portfolios. This session will provide demonstrations of a variety of new technologies and summarize their effectiveness. Lastly, a vision for the future will be entertained.

At conclusion, participants should be able to:
• Recognize that no single technology is a panacea.
• Discuss how to match a technology to an educational need.
• Discuss how students will use some of the learning technologies in their practice.

**SP-409**

Surgical Versus Nonsurgical Retreatment: Treatment Decisions

Spyros Floratos, D.M.D.
Athens, Greece

Moderator: Claudio H. Varella, D.D.S.
Gainesville, Fla.

The use of modern endodontic techniques and treatment protocols result in high success rates for primary endodontic treatment. Nevertheless, due to certain anatomical or biological constraints and/or after iatrogenic interference, treatment might not result in a positive outcome. This may necessitate either conventional or surgical retreatment. This presentation describes a modern retreatment decision-making concept, which encompasses pre-, intra- and postoperative factors that involve the tooth under treatment, the patient and clinician.

At conclusion, participants should be able to:
• Describe factors that are important to consider before making a decision for surgical and/or nonsurgical retreatment.
• Evaluate the risks and prognosis of each retreatment option.
• Compare the conventional retreatment techniques with modern microsurgical techniques that utilize the surgical operating microscope, ultrasonic instruments and biocompatible materials.
Endodontic Treatment or Implant—Case Selection and Treatment Decisions

David W. Kelliny, B.D.S., D.D.S.
Torrance, Calif.

Moderator: Samir K. Batniji, D.D.S., M.S.
Diamond Bar, Calif.

Endodontics has seen significant technological advances in the last decade enhancing the precision and predictability of treatment. Although endodontic treatment is a predictable treatment modality with long-term tooth retention rates, failures and treatment limitations may still be present. Dental implants emerged over the last 20 years as a viable alternative to replace missing or hopeless teeth. The purpose of this presentation is to show and discuss clinical scenarios where diagnosis and case selection could influence a clinician’s decision of a specific treatment modality.

At conclusion, participants should be able to:

- Develop a more balanced decision regarding case selection and treatment planning of dental implants versus endodontic treatment.
- Practice implant-associated procedures that may influence clinical decision-making.
- Use informed consent with patients to be better prepared for different clinical scenarios.

Internal and Cervical Resorption: Etiology, Diagnosis and Treatment

Unni Endal, D.D.S.
Jar, Norway

Moderator: Khang T. Le, D.D.S.
Aliso Viejo, Calif.

This presentation will focus on the occurrence, etiology, pathogenesis, diagnosis, differential diagnosis, and treatment of internal and cervical root resorptions. Numerous clinical cases of both types of resorptions, shown via radiographs, CT scans and clinical images will be included. Recommendations for treatment and materials used for treatment will be made.

At conclusion, participants should be able to:

- Describe the etiology and pathogenesis of internal and cervical root resorptions.
- Describe the diagnostic tools available to make a diagnosis.
- Determine the suitability of different materials in the treatment of internal and cervical resorptions.

Grow Your Business: The System and Principles a Dentist Can Teach You to Achieve Success

Joseph J. Capista, D.D.S.
Media, Pa.

Moderator: Jane Peck, M.B.A.
Colorado Springs, Colo.

This is a continuation of an earlier session; see page 63 for a complete session synopsis.

Four Generations + Two Genders = One Workplace

Susan Murphy, M.A., M.B.A., Ph.D.
Rancho Mirage, Calif.

Moderator: Bruce C. Justman, D.D.S.
Iowa City, Iowa

This is a continuation of an earlier session; see page 63 for a complete session synopsis.
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View the courses online, captured in real-time and posted as multimedia files with synchronized slides, audio, video, handouts and much more. Download MP3 files for portable listening as well!

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This Live Learning Center offers sessions from the following tracks:

- Master Clinician Series
- Hot Topics and Controversies
- Nonsurgical Endodontics
- New Science and Regenerative Endodontics
- Practice Management
- Professional Staff
- Surgical Endodontics
- Submitted Presentations

VISIT the Live Learning Center at www.aae.org/livelearningcenter
**Exhibit Hall Schedule**

**Thursday**  10 a.m. – 5 p.m.  
**Friday**  8 a.m. – 6 p.m.  
**Saturday**  9:15 a.m. – 2 p.m.

The AAE exhibit hall offers a variety of options for your clinical and business needs. Talk to representatives from major dental and medical suppliers, and take advantage of the many product discounts and special offers that are only available at the 2010 AAE Annual Session!

Current exhibitors as of press time are listed below. Visit the AAE Web site at [www.aae.org](http://www.aae.org) for the most up-to-date listing.

Acadental  
913/384-7390  
[www.acadental.com](http://www.acadental.com)

Acteon North America  
800/289-6367  
[www.acteongroup.com](http://www.acteongroup.com)

American Express OPEN  
212/640-2000  
[www.open.com](http://www.open.com)

Aseptico  
425/487-3157  
[www.aseptico.com](http://www.aseptico.com)

ASI Medical, Inc.  
800/566-9953  
[www.asimedial.net](http://www.asimedial.net)

Aspen Dental  
866/533-0429  
[www.aspendentaljobs.com](http://www.aspendentaljobs.com)

B & L BIOTECH, INC.  
822/565-4757  
[www.bnlbio.com](http://www.bnlbio.com)

Bank of America Practice Solutions  
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[www.bankofamerica.com/practicesolutions](http://www.bankofamerica.com/practicesolutions)

Brasseler USA  
912/925-8525  
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Carl Zeiss Meditec  
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[www.meditec.zeiss.us](http://www.meditec.zeiss.us)

CK Dental Industries  
714/639-6990  
[www.ckdental.net](http://www.ckdental.net)

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Designs for Vision, Inc.  
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DEXIS Digital X-ray  
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Discus Dental, LLC  
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Essential Dental Systems  
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G. Hartzell & Son  
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STAYFIT!
FITNESS PROGRAM
All Fitness Levels Welcome!

Wednesday
Cardio Kickboxing
6 – 7 a.m.
4th Floor Pool Deck / MH
Based on the martial arts style of Muay Thai and traditional boxing, this session will kick your body into high gear with increased cardiovascular stamina while toning your body.

Thursday
Fun Run/Walk
6 – 7 a.m.
Depart from Seaport Courtyard / MH
This year’s route will provide a refreshing and scenic morning workout along the bay.

Friday
Circuit Training
6 – 7 a.m.
4th Floor Pool Deck / MH
A combination of strength and cardiovascular training, designed to kick start the metabolism. An intense and fun workout.

Saturday
Yoga
7 – 8 a.m.
4th Floor Pool Deck / MH
Enjoy a combination of the Hatha (meditative) and Vinyasa flow styles of yoga, and focus on aligning the body while receiving the benefits of strength training and cardiovascular activity. A great way to start your day.

Location Key: MH = Manchester Grand Hyatt
SCC = San Diego Convention Center

Wednesday
General Session With Keynote Speaker
Chris Crowley
8 – 9:30 a.m.
Ballroom 6 / SCC
Chris Crowley is the co-author of the New York Times bestseller, Younger Next Year, and the follow-on book for women. His presentation will provide attendees with a dramatic grasp of the new science of how the mind and body read idleness and movement, connection and isolation, growth or decay. Mr. Crowley will also share ways that individuals can take control over the quality of their lives, including a focus on levels of optimism, effectiveness and functional age.

A continental breakfast will be served at each table and be sure to visit the AAE Oasis following the session for a book signing.

Sponsored by PracticeWorks/Kodak Dental Systems

Edgar D. Coolidge Luncheon
Noon – 1:30 p.m.
Ballroom 6 / SCC
Be part of the ceremonies to acknowledge the following award winners:

Edgar D. Coolidge Award
Carl W. Newton, D.D.S., M.S.D.

Louis I. Grossman Award
J. Craig Baumgartner, D.D.S., M.S., Ph.D.

I.B. Bender Lifetime Educator Award
Billie G. Jeansonne, D.D.S., Ph.D.

Edward M. Osetek Educator Award
Adam Lloyd, B.D.S., M.S.

Honorary Membership
Gunnar Bergenholtz, D.D.S.
Mark A. Oliver
International Reception  
5:30 – 6:30 p.m.  
Cunningham/MH  
Every year, the leaders of the AAE host a gathering for international attendees. Mingle with colleagues and friends from a myriad of countries prior to the Welcome Reception. International attendees will receive an invitation in their registration materials.  
Sponsored by Elsevier

Welcome Reception  
6:30 – 8 p.m.  
4th Floor Pool Deck/MH  
One of the most eagerly anticipated events of the Annual Session, the Welcome Reception stands out for its collegial atmosphere. Reconnect with old friends and meet new colleagues. Raffle tickets from the AAE Alliance will be available for purchase—don’t miss the chance to win one of the two sporty Honda® Metropolitan scooters and benefit the AAE Foundation.  
Sponsored by PracticeWorks/Kodak Dental Systems

President’s Breakfast  
8 – 10 a.m.  
Ballroom 6/SCC  
Gerald N. Glickman, D.D.S., M.S., M.B.A., J.D.  
Plan to be a part of this breakfast event featuring AAE President Gerald N. Glickman.  
In addition, the recipient of the Lifetime Dental Community Volunteer Spirit of Service Award will be recognized.  
Adolph Bushell, D.D.S.

Professional Staff Coffee  
10 – 11:30 a.m.  
Room 9/SCC  
This networking event is designed just for endodontic office staff. Share ideas and swap resources with others who face the same opportunities and challenges on the job, and learn how the AAE can make your work easier.  
Sponsored by Endoco

Louis I. Grossman Memorial Luncheon  
11:30 a.m. – 1:15 p.m.  
Manchester Ballroom A/MH  
$45 per person includes luncheon service and program  
Sponsored by the College of Diplomates, this luncheon program acknowledges endodontists who achieved Board certification during 2009. Family members, ABE directors, the AAE Executive Committee and other Diplomates will gather to share this moment of recognition.

Everybody Stand Up  
Featured Presenter: Carl W. Newton, D.D.S., M.S.D.  
New Diplomates demonstrate what the American Board of Endodontics stands for with the desire, effort and commitment required to achieve this professional and public recognition. This presentation introduces these new Diplomates, describes the current examination process they completed and expresses the value they provide to the future of our specialty.

2009-2010 College of Diplomates Leadership:  
Harold E. Goodis, D.D.S. President  
André K. Mickel, D.D.S., M.S.D., President-Elect  
George T. Goodis, D.D.S., Immediate Past President  
Sandra Madison, D.D.S., M.S., Interim Secretary  
Kenneth J. Spolnik, D.D.S., M.S.D., Treasurer  
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Joseph S. Dovgan, D.D.S., M.S., Director  
Debra A. Meadows, D.D.S., Director  
Christopher S. Wenckus, D.D.S., Director  
Keith V. Krell, D.D.S., M.S., M.A., ABE Consultant  
Susan Hawkinson, Administrative Secretary

Professional Staff Reception  
5 – 6:30 p.m.  
West Terrace/SCC  
Celebrate the broad range of contributions that professional staff members bring to the endodontic office at this reception designed especially for Professional Staff attendees. All Professional Staff are encouraged to attend.  
Sponsored by Brasseler USA and PBS Endo
Friday

**General Assembly Luncheon**
Noon – 1:30 p.m.
Ballroom 6/SCC

The General Assembly is the annual business meeting for the Association. The AAE officers, AAE Foundation president, ABE president and JOE editor present brief reports, and important issues affecting you and the Association are discussed with courses of action decided. Members will consider revisions to the AAE Constitution and Bylaws. Your colleagues will also be installed as next year’s officers and directors of the AAE, AAE Foundation and the American Board of Endodontics.

In addition, the AAE/DENTSPLY Resident Awards, which recognize the top 10 presenters for oral and poster research presentations and table clinics, will be presented.

*Sponsored by DENTSPLY International*

**Resident Reception**
5 – 6:30 p.m.
West Terrace/SCC

This annual event is designed exclusively for the endodontic resident. Don’t miss this valuable opportunity to network and enjoy refreshments immediately following the Resident and New Practitioner Career Fair. All residents are encouraged to attend.

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

**Celebrate San Diego!**
9 p.m. – midnight
House of Blues, 1055 5th Ave.

Plan to dance the night away at this annual event that spotlights the meeting location and musical talent from the area. The House of Blues in San Diego is located in the Gaslamp Quarter, the city’s main shopping and dining district. Two musical acts will entertain attendees with a live band on the main stage and an acoustic performer on the upper level. Don’t miss this popular event!

Continuous transportation will be provided between the Manchester Grand Hyatt and House of Blues from 8:45 p.m. to midnight.

Please Note: This event is open to all registered attendees. Your name badge is required for entrance.

*Sponsored by DENTSPLY Tulsa Dental Specialties*

Saturday

**Golf Outing**
6:45 a.m. – Depart Manchester Grand Hyatt Lobby
8 a.m. – Start Riverwalk Golf Club

$195 early/$205 standard, inclusive of green fees and cart, transportation, tournament coordination, continental breakfast and post-play luncheon.

Join your colleagues for a round of golf in San Diego! This special outing will take place at the Riverwalk Golf Club with winners recognized and prizes awarded at the golfer’s luncheon immediately following play.

**AAE Family Fun Night**
Friday, 5:30 – 7:30 p.m.
4th Floor Pool Deck/MH

$50 adults/$25 children (5–12 years old)
Free (children under the age of 5)

Join fellow AAE members and their families for a pizza and spaghetti party! Along with dinner, the following activities will be available: foosball, ping pong, lawn bowling, giant checkers, and arts and crafts. Enjoy private access to the basketball, volleyball and tennis courts, as well as the shuffle board and horseshoes area.

**Childcare**

The AAE has teamed up with Destination Sitters, LLC to provide families with an option for childcare while in San Diego. The childcare providers hired by Destination Sitters have been meticulously screened, in addition to being first aid and CPR certified. The fee is $12 per hour (a four-hour minimum applies) for up to 2 children, plus an $8 parking fee. The fee for each additional child is $2 per hour.

Please contact Destination Sitters directly at 888/748-5439 (North America) or 858/336-1999 (International), or by sending an e-mail to info@destinationsitters.com, and identify yourself as an Annual Session attendee. Arrangements must be made at least three days in advance. Alternative arrangements can be made by contacting the hotel concierge.

*Partially subsidized by the AAE*
San Diego Access to Care Project

9 a.m. – 5 p.m.
Hall A/SCC

The AAE is providing endodontic treatment to underserved patients in the San Diego community. Patients will be prescreened by local clinics and treated by volunteer endodontists licensed in California in the University of Southern California’s Mobile Dental Clinic.

Information on how to volunteer will be distributed in early 2010.

Sponsored by Henry Schein Dental/Henry Schein Cares

AAE Foundation Leadership Donor Reception (by invitation)

6 – 7 p.m.
The Gallery/MH

This fourth annual event honors the AAE Foundation’s leadership donors.

Sponsored by SybronEndo

President’s Event Featuring Jay Leno

9 – 10:30 p.m.
Elizabeth Ballroom/MH

$65 per person (includes one beverage ticket; cash bar will be available)

Jay Leno began his career in night clubs where he worked 300 nights a year before succeeding Johnny Carson as the host of “The Tonight Show” in 1992. In 2009, he started a primetime talk show, “The Jay Leno Show,” which airs every week night and features conversations with celebrities, the occasional musical guest, as well as the popular “Headlines” and “Jaywalking” segments that began on “The Tonight Show.” He has continued to perform his stand-up comedy act when not filming his television shows where he covers everyday life and American culture.

Please Note: The President’s Event is a ticketed event for all attendees. If you are planning to attend, you must purchase a ticket(s). Space is limited and the event is expected to sell out prior to the deadline. Tickets will be sold through April 2, or until the event is full, whichever occurs first. On-site ticket sales will be subject to availability. This is a private event exclusively for AAE Annual Session attendees, exhibitors and guests.
See What You’ve Been Missing

3D imaging reveals more than you ever imagined.

3D imaging is advancing the practice of endodontics beyond the limitations imposed by 2D images, leading to revolutionary progress in treatment planning. With 3D and panoramic imaging modalities, the Kodak 9000 3D extraoral imaging system boasts the highest resolution CBCT images available. It is truly an innovative, cost-effective tool that will enhance the reliability of your diagnoses – and your vision for your practice.

With pricing starting at under $100,000*, isn’t it time you see how 3D imaging can revolutionize your practice? Call 800.944.6365 for your personalized demo or visit www.kodakdental.com/3D.
Access... Your Quality of Life

**General Session With Keynote Speaker Chris Crowley**

Wednesday, 8 – 9:30 a.m.

An AAE Annual Session first, a keynote speaker will launch the meeting with a general session for all attendees. Join Chris Crowley, bestselling co-author of *Younger Next Year* in exploring ways to take control over your quality of life.

*Sponsored by PracticeWorks/Kodak Dental Systems*

Access... Your Dancing Shoes

**Celebrate San Diego!**

Friday, 9 p.m. – midnight

Join all Annual Session attendees at this annual celebration of the host city. A live band and acoustic performer will entertain one and all at the local House of Blues.

*Sponsored by DENTSPLY Tulsa Dental Specialties*

Access... Your Funny Bone

**President’s Event Featuring Jay Leno**

Saturday, 9 – 10:30 p.m.

$65 per person

This is a private event exclusively for AAE Annual Session attendees to laugh the night away as they are entertained by comedian Jay Leno. Don’t miss out on this unique experience—purchase your tickets today!

See the preceding Special Events pages for more information.
Greetings and Welcome to San Diego!

It is my pleasure and honor to serve and represent you as president of the AAE Alliance. I want to thank each of you for your membership. Without you, the Alliance would not be able to support our profession and the AAE Foundation to the extent that we do. Please join us for fun and friendship—we have some great activities planned:

• Be sure to stop by the Alliance Registration Desk to receive your welcome gift.
• The Alliance will once again raffle two Honda® Metropolitan Motor Scooters to raise money for the AAE Foundation. The scooters will be on display during the meeting and tickets will be sold at the Welcome Reception and by seeing any Alliance member up until the raffle on Friday afternoon.
• Our Hospitality Suite will be open on Thursday from 10:30 a.m. to 12:30 p.m. Join old and new members for refreshments and good conversation. Check with the Alliance Registration Desk for the location.
• Enjoy a full breakfast buffet on Friday morning where you will learn about the Alliance’s activities and have a chance to renew and catch up with your Alliance friends. After the meeting, join us as we see the sights of San Diego with Old Town Trolley Tours. Details are listed on the next page.

Membership in the Alliance is open to all spouses of AAE members. Your membership helps support your spouse and the AAE Foundation, and is an excellent opportunity to meet other endodontic spouses that share common interests. We look forward to seeing you in San Diego!

Sincerely,

Jenny Freeland
AAE Alliance President
Mjfreeland@aol.com
**ALLIANCE ACTIVITIES**

### Wednesday

**Alliance Raffle**

6:30 – 8 p.m.
4th Floor Pool Deck/MH

Raffle tickets will be sold during the Welcome Reception. To volunteer to help with ticket sales, please contact Jenny Freeland at mjfreeland@aol.com.

### Thursday

**Hospitality Suite**

10:30 a.m. – 12:30 p.m.
Suite */MH

**Board of Directors and New Board Orientation Meeting**

12:30 – 2 p.m.
Suite */MH

* The location for the suite will be posted at the Alliance desk located in the AAE Registration and Information Area.

### Friday

**Alliance Breakfast and Old Town Trolley Tour**

8:30 – 10 a.m. Breakfast
10 a.m. – noon Tour
Ford AB/MH
Departs main entrance/MH

$55 per person for breakfast and tour
$25 per person for tour only

Come and enjoy breakfast while renewing old friendships and making new ones. Learn about Alliance activities over the past year prior to leaving on our special Old Town Trolley Tour of San Diego. The famous orange and green trolley will pick us up at the hotel and take us on a fully narrated, historic tour of San Diego and Coronado. The tour covers approximately 30 miles and over 100 points of interest, including Old Town, the Embarcadero, the San Diego Zoo, Seaport Village and the Gas Lamp District. Alliance members may purchase as many tickets as they’d like for the tour. All family members and ages are welcome.

**AAE Alliance Board of Directors**

- **President**
  Jenny Freeland (Mark)

- **President-Elect**
  Kerstin Conn (Douglas)

- **Immediate Past President**
  Liza Starr (Steven)

- **Secretary**
  Rebecca Funderburk (David)

- **Treasurer**
  Becky Richards (Robert)

- **Historian**
  Linda Powell (Bill)

- **Membership Chair**
  Margaret Wright (Ron)

- **AAAE Charter Keeper**
  Shelly Zucker (Kenneth)

- **Member-at-Large**
  Carol Cooke (H. Groves)

- **Local Arrangements**
  Stella Okada (Geoffrey)

- **AAE Foundation Board Representative**
  Kerstin Conn (Douglas)

- **AAE Board Liaison to the AAAE**
  James C. Kulild, D.D.S., M.S. (Jan)
All events are at the Manchester Grand Hyatt unless otherwise noted.

<table>
<thead>
<tr>
<th>Wednesday</th>
<th>Thursday</th>
<th>Thursday continued</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>Baylor College of Dentistry</td>
<td>Michigan Association of Endodontists</td>
<td>University of Iowa</td>
<td>Boston University</td>
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<tr>
<td>Reception: 8:30 – midnight</td>
<td>Reception: 6 – 8 p.m.</td>
<td>Reception: 6 – 8 p.m.</td>
<td>Reception: 6 – 8:30 p.m.</td>
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<tr>
<td>Elizabeth Ballroom A</td>
<td>Elizabeth Ballroom B</td>
<td>Manchester E</td>
<td>Ford ABC</td>
</tr>
<tr>
<td>U.S. Air Force Association of Endodontists</td>
<td>New York State Association of Endodontists</td>
<td>University of Louisville</td>
<td>Marquette University</td>
</tr>
<tr>
<td>Reception: 5 – 6 p.m.</td>
<td>Meeting: 5 – 6 p.m.</td>
<td>Reception: 6 – 8 p.m.</td>
<td>Reception: 6 – 7 p.m.</td>
</tr>
<tr>
<td>Emma A</td>
<td>Room 11A/SCC</td>
<td>Betsy B</td>
<td>Moshen A</td>
</tr>
<tr>
<td>University of Detroit Mercy</td>
<td>New York University</td>
<td>University of Maryland</td>
<td>University of California at San Francisco</td>
</tr>
<tr>
<td>Reception: 8:30 p.m.</td>
<td>Reception: 6 – 8 p.m.</td>
<td>Reception: 6 – 8 p.m.</td>
<td>Reception: 6 – 8 p.m.</td>
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<tr>
<td>Offsite</td>
<td>Ford C</td>
<td>Manchester H</td>
<td>Del Mar AB</td>
</tr>
<tr>
<td>University of Michigan</td>
<td>Nova Southeastern University</td>
<td>University of Missouri-Kansas City</td>
<td>University of Pennsylvania</td>
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<tr>
<td>Reception: 8:30 p.m.</td>
<td>Reception: 8:30 – 10 p.m.</td>
<td>Reception: 5:30 – 7:30 p.m.</td>
<td>Reception: 6 – 8 p.m.</td>
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<tr>
<td>Offsite</td>
<td>Elizabeth Ballroom H</td>
<td>Cunningham C</td>
<td>Elizabeth Ballroom A</td>
</tr>
<tr>
<td>University of Minnesota</td>
<td>Ohio State University</td>
<td>University of North Carolina and Tar Heel Endodontic Association</td>
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<tr>
<td>Reception: 5 – 6:30 p.m.</td>
<td>Reception: 7 – 10 p.m.</td>
<td>Meeting: 5 – 6 p.m.</td>
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<tr>
<td>Annie A</td>
<td>Emma B</td>
<td>Reception: 6 – 6:30 p.m.</td>
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<thead>
<tr>
<th>Thursday continued</th>
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<tbody>
<tr>
<td>Oregon Health &amp; Science University</td>
<td>U.S. Navy Association of Endodontists</td>
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<tr>
<td>Reception: 6:30 – 8 p.m.</td>
<td>Breakfast Meeting: 7 – 10 a.m.</td>
</tr>
<tr>
<td>Molly A-B</td>
<td>Del Mar A-B</td>
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<tr>
<td>St. Louis University</td>
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<tr>
<td>Reception: 6 – 8 p.m.</td>
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<tr>
<td>Offsite</td>
<td></td>
</tr>
<tr>
<td>Stony Brook University</td>
<td>University of Southern California</td>
</tr>
<tr>
<td>Reception: Time TBA</td>
<td>Dinner: 7 – 9 p.m.</td>
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<tr>
<td>Offsite</td>
<td>The Gallery</td>
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<tr>
<td>Temple University</td>
<td>University of Texas at Houston</td>
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<tr>
<td>Reception: 6 – 8 p.m.</td>
<td>Reception: 6:30 – 8:30 p.m.</td>
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<tr>
<td>Cunningham A</td>
<td>Manchester Ballroom D</td>
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<tr>
<td>Tufts University</td>
<td>University of Texas Health Science Center at San Antonio</td>
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<tr>
<td>Reception: 6 – 8 p.m.</td>
<td>Reception: 6:30 – 9:30 p.m.</td>
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<tr>
<td>Elizabeth Ballroom G</td>
<td>Manchester Ballroom A</td>
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<tr>
<td>U.S. Army Association of Endodontists</td>
<td>University of Washington</td>
</tr>
<tr>
<td>Reception: 5 – 6:30 p.m.</td>
<td>Reception: 6 – 8 p.m.</td>
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<tr>
<td>Madeline C-D</td>
<td>Emma C</td>
</tr>
<tr>
<td>University at Buffalo</td>
<td>Veteran Affairs Healthcare System Long Beach</td>
</tr>
<tr>
<td>Reception: 5 – 7 p.m.</td>
<td>Reception: 6 – 8 p.m.</td>
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<tr>
<td>Betsy C</td>
<td>Moshen B</td>
</tr>
<tr>
<td>University of California at Los Angeles</td>
<td>Virginia Commonwealth University</td>
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<tr>
<td>Reception: 6 – 8 p.m.</td>
<td>Reception: 6:30 – 8:30 p.m.</td>
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<tr>
<td>Del Mar A-B</td>
<td>Madeline B</td>
</tr>
<tr>
<td>University of Florida</td>
<td>West Virginia University</td>
</tr>
<tr>
<td>Reception: 7:30 – 9:30 p.m.</td>
<td>Reception: 6 – 8 p.m.</td>
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<tr>
<td>Elizabeth Ballroom C</td>
<td>Cunningham B</td>
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<tr>
<td>University of Illinois</td>
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<tr>
<td>Dinner: 6 – 9 p.m.</td>
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<td>Offsite</td>
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<th>Saturday</th>
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<tbody>
<tr>
<td>U.S. Navy Association of Endodontists</td>
<td></td>
</tr>
<tr>
<td>Breakfast Meeting: 7 – 10 a.m.</td>
<td>Del Mar A-B</td>
</tr>
</tbody>
</table>
Wednesday
College of Diplomates Board of Directors
Meeting: 4 – 6:30 p.m.
Del Mar A/MH
Endo Standards Group
Meeting: 1:30 – 5 p.m.
Moshen A-B/MH

Thursday
Ellison-Jones Endodontic Group (formerly African-American Endodontic Group)
Reception: 7 p.m.
Elizabeth Ballroom A/MH
French Society of Endodontics
Reception: 7:30 – 9:30 p.m.
Elizabeth Ballroom F/MH
Harry J. Healey Endodontic Study Club
Reception: 6:30 – 9 p.m.
Manchester F/MH

Friday
District Caucuses/MH
7 – 7:45 a.m.
Elizabeth Ballrooms/MH
District I – A
District II – B
District III – C
District IV – DE
District V – F
District VI – G
District VII – H

Each district (see map below) convenes a caucus at the AAE Annual Session to discuss district business and to nominate a District Caucus Nominating Committee in years when the district will hold an election.

Friday continued
Affiliate Leadership Meeting
7:45 – 8:30 a.m.
Elizabeth Ballroom I/MH
This Annual Session event is a special opportunity for affiliate leaders to interact with each other and the AAE Executive Committee in a discussion of current issues and Association activities.

Software User Group Meetings
All current users of the following endodontic software programs are invited to attend user group meetings.
1:45 – 3:15 p.m.
EndoVision – Room 11A/SCC
TDO – Room 11B/SCC
3:30 – 5 p.m.
EndoTrak – Room 11B/SCC
PBS Endo – Room 11A/SCC

Saturday
JOE Editorial Board Committee
Meeting: 7 – 10 a.m.
Cunningham A/MH

AAE Districts

[Map of AAE Districts]

Location Key: MH = Manchester Grand Hyatt, SCC = San Diego Convention Center
AAE Oasis

The AAE member service center brings you everything you need in one convenient location outside of the session rooms: practice management and clinical resources, membership assistance, awareness campaign information, logo apparel and gifts, and much more.

Annual Session Shirts

Purchase your Annual Session commemorative shirt by checking the appropriate box on the Registration Form or online. Men’s- and women’s-style polo shirts, in khaki and red respectively, are a must for this year’s meeting. Don’t hesitate; reserve yours today! It will be mailed to you prior to the Annual Session. All quantities are limited and sales are final.

Attire

In keeping with California’s casual atmosphere, attendees are encouraged to leave their business attire at home. Business casual is appropriate for all activities.

Badges

Your name badge will be included in your on-site registration materials. This badge will admit you to all events included in your registration package (see page 84); therefore, please wear your name badge to all functions. Tickets are only required for events not included in your package. Also, please take a moment to complete the emergency information found on the reverse side of your name badge.

Career Opportunities Exchange Board

Find the very latest job prospects or post an opening on the Career Opportunities Exchange Board. Hosted and monitored by the Membership Services Committee, the job board will be located in the AAE Oasis.

Childcare

The AAE has teamed up with Destination Sitters, LLC to provide families with an option for childcare while in San Diego. The childcare providers hired by Destination Sitters have been meticulously screened, in addition to being first aid and CPR certified. The fee is $12 per hour (a four-hour minimum applies) for up to 2 children, plus an $8 parking fee. The fee for each additional child is $2 per hour.

Please contact Destination Sitters directly at 888/748-5439 (North America) or 858/336-1999 (International), or by sending an e-mail to info@destinationsitters.com, and identify yourself as an Annual Session attendee. Arrangements must be made at least three days in advance. Alternative arrangements can be made by contacting the hotel concierge.

Continuing Education Credits/Units

Up to 29 hours of continuing education units can be attained through a combination of educational sessions, workshops, and oral and poster research presentations and table clinics. An attendance verification number will be announced at each session. In order to receive CE credit, please record the verification number and your AAE member number on the Session Evaluation Form. Attendees should return the completed forms to the AAE room monitors or by mailing/faxing the form to the AAE.

A CE Verification Letter will be provided to attendees after the meeting. CE credit is awarded on an hour-for-hour basis. Attendees should claim only those hours of credit that they actually spent in the educational activity. Participants will be able to claim a maximum of two CE credit hours for attending the oral and poster presentations and table clinics. Attendees should complete an OPT evaluation form, available at the oral and poster research presentation and table clinic sites, in order to document their attendance. CE credits/units issued for participants may not be applicable for license renewal in all states. Since continuing education requirements and acceptance of credits/units offered vary among state boards of dentistry, each participant must verify the requirements of his/her state licensing board and whether the CE Verification Letter should be retained by the participant or sent to the state board. The AAE is an ADA CERP-Recognized Provider, a recognized provider in Florida #PP0049, with the Academy of General Dentistry #4401, and in California #2030.

Session Recordings and Online CE

2010 Annual Session recordings are available for purchase through the AAE Live Learning Center or the enclosed Registration Form. The AAE is pleased to offer unlimited online access to educational sessions, synchronized audio, video and presentation components, speaker handouts in PDF format, and the ability to earn CE credit! For details, see page 67 or visit www.aae.org/livelearningcenter.

Endo-Mail Kiosks

Need to search the Internet, check your e-mail or look up a flight confirmation? Annual Session attendees can do all of this and more, free-of-charge, at the Endo-Mail kiosks located outside of the exhibit hall in the San Diego Convention Center.

Sponsored by PracticeWorks/Kodak Dental Systems

Partially subsidized by the AAE
Lost and Found
San Diego Convention Center:
Call ext. 5490 from any house phone.

Manchester Grand Hyatt:
Call ext. 4580 from any house phone.

Medical Assistance
An emergency technician will be stationed at all major events and will be available during published meeting hours.

San Diego Convention Center:
The First Aid Station is located on the Mezzanine Level. For medical assistance, call ext. 5490 from any house phone.

Manchester Grand Hyatt:
For medical assistance, call ext. 55 from any house phone.

The medical facility that is within closest proximity to the Manchester Grand Hyatt:
Mercy Hospital
4077 5th Ave. at Washington St.
Phone: 619/294-8111

No Smoking Policy
For the comfort of all attendees, smoking is not permitted at any AAE function.

San Diego Information
For more information on San Diego and other fun activities to do while there, please visit the San Diego Convention and Visitors Bureau’s Web site at www.meetmeinsandiego.com/aae.

Online Restaurant Reservations
For your convenience, PRA Destination Management offers an online restaurant reservations system. San Diego is filled with premier dining options, particularly in the historic Gaslamp Quarter, which is just steps from of the convention center. Choose from over 40 unique restaurants, all within a short walk of the downtown hotels. Reservations can be made beginning March 1, 2010 through www.restaurantevents.com/aae.

Spa Discount
The Kin Spa, located in the Manchester Grand Hyatt, is pleased to offer a 20 percent discount on all treatments for AAE attendees. You may make a reservation by calling 619/358-6699. Please identify yourself as an AAE attendee in order to receive the discount.

Speaker-Ready Room
Presenters may preview their presentations and obtain assistance in Room 10 at the San Diego Convention Center during the following hours:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>2 – 8 p.m.</td>
</tr>
<tr>
<td>Wednesday</td>
<td>7 a.m. – 5 p.m.</td>
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<tr>
<td>Thursday</td>
<td>7 a.m. – 6 p.m.</td>
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<tr>
<td>Friday</td>
<td>7 a.m. – 6 p.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>7 a.m. – 5 p.m.</td>
</tr>
</tbody>
</table>

Registration materials for presenters will be available here instead of the AAE Registration and Information area.

Special Assistance
If you have a physical, communication or dietary restriction that may affect your participation in Annual Session activities, please contact Karen Allison at 800/872-3636 (North America) or 312/266-7255 (International), ext. 3026, or e-mail kallison@aae.org, at least 30 days prior to your arrival. We can only ensure the availability of appropriate accommodations with prior notification of need.

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 workshops (page 13), the Louis I. Grossman Memorial Luncheon (page 71), the AAE Alliance Breakfast and Tour (page 77), AAE Family Fun Night (page 72), the Golf Outing (see page 72) and the President’s Event Featuring Jay Leno (page 73).
Hotel Reservations

The AAE has reserved a block of guestrooms at the Manchester Grand Hyatt:

One Market Place
San Diego, CA 92101
Phone: 888/421-1442
Fax: 619/232-6464
Web Site:

Rates

The following group rates will be offered to Annual Session attendees until March 24, 2010, or until the room block is filled, whichever occurs first. After that time, rates and reservations will be subject to availability. Rates apply to single/double occupancy and are subject to a 12.56 percent occupancy tax. Listed suite rates include one bedroom; additional bedrooms, if available, are subject to the standard group room rate.

Standard Rooms: $244

Suites (phone only)

Junior Suites ...................................................$329
Conference Suites .............................................$344
VIP Suites .......................................................$390
Grand Suites ....................................................$420
Hospitality Suites .............................................$480
Deluxe Hospitality Suites .................................$600

Reservation Procedures

To make your reservation for a standard room, go to the AAE Web site at www.aae.org/annualsession and select “Hotel Reservations” from the Quick Links menu on that page. Or, you may reserve your room by calling the Manchester Grand Hyatt directly at 888/421-1442. Be sure to identify yourself as an AAE Annual Session attendee.

Suites reservations may be made by contacting Lauren Lepera, Group Reservations, at 619/358-6724.

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 seven days prior to the date of arrival. This deposit is forfeited in its entirety for cancellations received within seven days prior to arrival and for all no-shows.

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
Select the “Planning and Booking” tab and click “More Search Options;” enter Meeting ID# 585OF in the electronic certificate or promotion code box.

Call (or have your travel agent call) United’s Meeting Desk at 800/521-4041 and refer to Meeting ID# 585OF.

Airport Transportation

Taxi fare from the San Diego International Airport to the Manchester Grand Hyatt is approximately $10-$13 one way. Shuttle service between the airport and the Manchester Grand Hyatt is provided by Express Shuttle for $8 per person. To make a reservation, call 800/900-7433 or 619/591-0303.

Town car service from the San Diego International Airport to the Manchester Grand Hyatt may be arranged by calling the concierge at 619/232-1234, ext. 51; rates vary.

Car Rental

Hertz is the preferred car rental company of the AAE. 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.

Call now for the special rates that are valid one week before through one week after the official meeting dates. You must present your AAE membership card or Hertz member discount card at time of rental. To reserve a car, contact Hertz online or by phone, and refer to the CDP and PC numbers below.

Online at www.hertz.com
Calling from the United States: 800/654-2200
Calling from Canada: 800/263-0600
PC# 132871
CDP# 48141

Parking

Valet parking is available at the Manchester Grand Hyatt for $32 per day. Self-parking is $22 per day.
THE NEXT GENERATION IN THE PROFILE® INSTRUMENT SERIES

ProFile®

VORTEX™ ROTARY FILES WITH M-WIRE™ NiTi

Manufactured Under US Patent Numbers: 5,655,950; 5,762,541; 5,628,674; 5,527,205; 5,941,760; 5,464,362; 7,270,541; 6,106,296 and other patents pending.

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### Registration Packages and Fees

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.

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<thead>
<tr>
<th>Package</th>
<th>Early Fee (by March 10)</th>
<th>Standard Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAE Professional</td>
<td>$945</td>
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</tr>
<tr>
<td>Family/Guest</td>
<td>$125</td>
<td>$200</td>
</tr>
</tbody>
</table>

Registration packages include the following:

- **AAE Professional/Active 1st Year/Student/Professional Staff and Professional/Student/Professional Staff Guest Packages**: Sessions and Exhibits, General Session With Keynote Speaker, Coolidge Luncheon, Welcome Reception, President’s Breakfast, General Assembly Luncheon, *Celebrate San Diego!*
- **AAE Alliance Package**: Alliance membership dues, Welcome Reception, *Celebrate San Diego!, Exhibits.
- **Family/Guest Package**: Welcome Reception, *Celebrate San Diego!, Exhibits.

*Please Note: Tickets for all attendees are required for all workshops (page 13), the Louis I. Grossman Memorial Luncheon (page 71), the AAE Alliance Breakfast and Tour (page 77), AAE Family Fun Night (page 72), the Golf Outing (page 72) and the President’s Event Featuring Jay Leno (page 73).*

*Active 1st Year members who have just transferred from Student status and are assessed 50 percent of the Active membership dues. The Annual Session registration fees have been modified to coordinate with this payment structure.

### Early Registration Discount

The early registration fee will be granted for registrations received by March 10, 2010. After this date, the standard registration fee will apply. Registrations submitted online or via fax must be date/time stamped by 11:59 p.m., CST on March 10, 2010. Registration Forms submitted via mail must be postmarked on or before March 10, 2010.

### Registration Deadlines

Registrations received via fax or postmarked after 11:59 p.m., CST on March 10, 2010, will not be processed, however you may register online until 11:59 p.m., CST on April 2, 2010. After this date, you must register on site at the AAE Registration and Information desk at the San Diego Convention Center during the following days/times:

- **Tuesday**: 2 – 8 p.m.
- **Wednesday**: 7 a.m. – 5 p.m.
- **Thursday**: 7 a.m. – 5 p.m.
- **Friday**: 7 a.m. – 6 p.m.
- **Saturday**: 7 a.m. – 5 p.m.

### Workshops

To participate in any of the workshops (see page 13 for details), you must be registered for the Annual Session and pay the additional workshop fee. Registrations will be accepted via the AAE Web site or by facsimile (please refer to the Registration Form), on a first-come, first-served basis, in the order in which they are date/time stamped. Therefore, registrations received via mail for any workshop will not be processed. Your annual session confirmation will reflect whether or not your workshop registration was accepted.

### Join the AAE and Save!

AAE members reap substantial savings on their meeting registration. Join the AAE as a member today to be eligible for an AAE Professional, Student or Professional Staff package rate. Applications for membership must be received prior to April 2, 2010, and can be accessed at [www.aae.org/join](http://www.aae.org/join).
Methods of Registration

Please choose one of the following methods to register for the 2010 Annual Session; full payment must be received with your registration:

Online: The Fastest, Most Efficient Way to Register!
Members are highly encouraged to register using the AAE online registration system at www.aae.org/annualsession. Benefits include instant confirmation for workshops and other limited attendance activities, and an extended registration date. Visa, Mastercard, American Express and Discover cards accepted.

Fax: Complete the enclosed Registration Form, include your Visa, MasterCard, American Express or Discover information and fax it, toll-free to 866/451-9020 (North America) or 312/266-9867 (International).

Mail: You may send your completed Registration Form with payment to:
American Association of Endodontists
Attn: Annual Session Registration
211 E. Chicago Ave., Suite 1100
Chicago, IL 60611-2691

Confirmation

If you have an e-mail address on file with the AAE, you will receive an electronic confirmation. If not, a written confirmation will be mailed upon complete processing of your registration. If you have not received a confirmation within three weeks of registration, please call the AAE Headquarters at 800/872-3636 (North America) or 312/265-7255 (International), or send an e-mail to meetings@aae.org. Badges and registration materials will be held for you at the AAE Registration and Information desk in the San Diego Convention Center.

Cancellation Policy

Registration packages will be refunded, less a $50 processing fee, if the AAE receives written notification of cancellation by April 9, 2010. The Executive Director will review refund requests made in writing after this date as a result of emergencies or other serious events. Refunds for workshops will not be granted, regardless of the circumstance, after April 9, 2010. Fax cancellations to the AAE Headquarters at 866/451-9020 (North America) or 312/266-9867 (International), or send an e-mail to meetings@aae.org.

Attendee List

Visit www.aae.org/annualsession to see a real-time listing of who is registered for this year’s Annual Session. Simply choose “Registered Attendee List” from the Quick Links menu on the right-hand side of the page. The complete list of all attendees will appear in alphabetical order by last name and visitors can search using any keyword, such as last name, city, state or country.
The following optional tours are being managed by PRA Destination Management. If you have any questions regarding these activities, please contact them directly at 619/234-9440.

**Thursday**

**Sailing in Style**

1 – 4 p.m.

AOLANI is the most beautiful catamaran in southern California. Its spacious salon lets you get out of the “elements” if wet or cold. Seating is available for 30 inside the salon with 360-degree views and seating for 10 in the adjacent cockpit. Choose to walk around the boat and mingle or find a peaceful and quiet corner and watch San Diego’s most beautiful sites. Fun guaranteed!

$77 per person includes transportation

**Friday**

**Jewels by the Sea**

10:30 a.m. – 3:30 p.m.

La Jolla is a must-see when visiting San Diego. Approaching this seaside community can feel like entering paradise as La Jolla Cove’s sun-dappled water comes into view. The first stop is the Birch Aquarium at Scripps. Overlooking the Pacific Ocean, this beautiful facility presents undersea creatures in realistic habitats and provides interactive museum exhibits. After visiting the Aquarium, enjoy exploring the boutiques, galleries and designer studios, viewing the coastline or beach combing at the famous La Jolla Cove.

$45 per person includes transportation and admission to Birch Aquarium

**Saturday**

**Seaside Stroll and Wine Tasting**

1 – 4:30 p.m.

On a leisurely, guided stroll through quaint Coronado, you’ll see the stately mansion of John D. Spreckels, the cottage of the Duchess of Windsor, view the home where the Wizard of Oz was inspired and tour the magnificent Hotel del Coronado. After the walking tour, you’ll head over to Wine Styles. From the moment you walk into Wine Styles, you’ll feel like you’ve traveled back in time to the Old World wine cellar of your dreams where you will enjoy wine tasting and a cheese platter in the private room.

$76 per person includes transportation, private narrated tour and wine tasting.

---

**Tour Registration Information**

**Online:** Go to the AAE Web site at [www.aae.org/annualsession](http://www.aae.org/annualsession) and select “Optional Tours” from the Quick Links menu or go directly to [www.pra-tours.com/aae](http://www.pra-tours.com/aae).

**Phone:** Call 619/234-9440

**On Site:** A tour desk will be open on the following dates and times in the AAE Registration and Information area:

- Tuesday 3 – 7 p.m.
- Wednesday 9 a.m. – 3 p.m.
- Thursday 9 a.m. – 3 p.m.
- Friday 9 a.m. – 1 p.m.

---

**Tour Policies**

Advance registration will be accepted until April 1, 2010; on-site sales are subject to availability. All cancellations must be received by PRA at least 14 days in advance of the scheduled tour. No refunds will be issued for cancellations received less than 14 days before or for no-shows. Tours may be cancelled if minimum ticket sales are not met.

All tickets purchased in advance can be picked up on site.
Take advantage of discounted theme park and USS Midway ticket rates that can be used anytime during your stay in San Diego. Ticket sales are managed by PRA Destination Management. Please direct inquiries to PRA at 619/234-9440.

San Diego Zoo®
The 100-acre zoo is home to over 4,000 rare and endangered animals and a prominent botanical collection with more than 700,000 exotic plants. Admission includes: shows and exhibits, 35-minute guided bus tour, express bus and Skyfari aerial tram.
$31 per adult
$24 per child (ages 3-11)

SeaWorld®
SeaWorld is one of the most popular marine-life parks in the world. It is an ideal place to learn about, enjoy and gain an appreciation for some of the ocean’s most fascinating animals.
$59 per adult
$51 per child (ages 3-9)

USS Midway Museum
The USS Midway Museum is an unforgettable adventure for the entire family. Imagine experiencing life at sea aboard one of America’s longest-serving aircraft carriers. Guests can spend the day exploring more than 60 exhibits with a collection of 25 restored aircraft.
$15 per adult
$8 per child (6-17)

Please Note: There are discounted fees for the following groups that should be purchased on the ship:
- All active-duty and reservist personnel (with ID): No charge
- Retired military (with ID): $10
- Seniors (62+) and students (with valid ID): $13

Legoland®
Geared toward families with children between the ages of 2-12, LEGOLAND® offers interactive attractions, rides and other activities centered around more than 15,000 LEGO® models.
$50 per person (children 2 years and under are free)

San Diego Trolley Tours
Since 1989, Old Town Trolley Tours has provided sightseeing tours highlighting the best of San Diego. Hop aboard one of our trolleys where the friendly conductors narrate the tour with a fascinating and fun mix of trivia and humorous stories.

The trolleys run between all of the most popular San Diego tourist attractions: Seaport Village, the USS Midway, Gaslamp Quarter, Little Italy, Old Town, Balboa Park/San Diego Zoo and Coronado Island. You can hop on and off on your own schedule to further explore these destinations. Trolleys run daily from 9 a.m. – 6 p.m.

For more information on the San Diego Trolley, the tours they offer or to purchase tickets, go to www.trolleytours.com/san-diego, or call 800/868-7482 (North America) or 619/298-8687 (International). Tickets can also be purchased at the San Diego Convention Center Information Desk.
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*E.G. Van Valey ’46-47
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*Elmer A. Jasper ’49-50
*Raymond L. Girardot ’50-51
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*Harold A. Maxmen ’94
*Herbert Schilder ’95
Stuart B. Fountain ’96
Joseph D. Maggio ’97
Gerald C. Dietz Sr. ’98
John I. Ingle ’99
James C. McGraw ’00
Charles J. Cunningham ’01
*Richard C. Burns ’02
Noah Chivian ’03
*Eric J. Hovland ’04
*Philip W. Cohen ’05
Harmon R. Katz ’06
Stephen F. Schwartz ’07
Seymour Oliet ’08
*Richard C. Burns ’09

Louis I. Grossman Award

*Louis I. Grossman ’73
*Byer Naeyaert-Oxby ’76
*I.B. Bender ’78
*Samuel Selzer ’80
*Harold R. Stanley ’81
*Kare Langeland ’82
*Henry J. Van Hassel ’84
*Melvin Goldman ’89
Synguc K Kim ’90
*Harold A. Maxmen ’94
*Herbert Schilder ’95
Stuart B. Fountain ’96
Joseph D. Maggio ’97
Gerald C. Dietz Sr. ’98
John I. Ingle ’99
James C. McGraw ’00
Charles J. Cunningham ’01
*Richard C. Burns ’02
Noah Chivian ’03
*Eric J. Hovland ’04
*Philip W. Cohen ’05
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James C. McGraw ’00
Charles J. Cunningham ’01
*Richard C. Burns ’02
Noah Chivian ’03
*Eric J. Hovland ’04
*Philip W. Cohen ’05
Harmon R. Katz ’06
Stephen F. Schwartz ’07
Seymour Oliet ’08
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Goran Sundqvist ’94
Gunnar Bengenholtz ’96
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Stuart B. Fountain ’96
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John I. Ingle ’99
James C. McGraw ’00
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The following have proprietary, financial and/or personal interests to disclose:

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Buchanan, L. Stephen – Financial/Material Support: SybronEndo
Burrus, April – Financial/Material Support: DOCS Education
Caruso, Timothy – Consultant: Bever Co., Posture Perfect Solutions, Hu Friedy Co., KAVO USA, Dental Practice Report, Dental Ez Group, RGP Dental, SurgiTel & the Osteogenesis Imperfecta Foundation; Member: American Dental Association’s Ergonomic and Disability Support Advisory Committee; Financial/Material Support: Bever Company, RGP Dental, Posture Perfect Solutions, Dental Ez Group, Pelton Crane
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Odom, Mark A. – Consultant: DENTSPLY Tulsa Dental Specialties
Pecora, Gabriele – Consultant: GHIMAS S.p.A.
Rubinstein, Richard A. – Consultant: DENTSPLY Tulsa Dental Specialties, Jed Med Instrument Company
Ruddle, Clifford J. – Consultant: DENTSPLY International
Senia, E. Steve – Consultant, Financial/Material Support and Honorarium: Discus Dental, Inc.
Shi, Wenyuan – Grants/Research Support: NIH, GSK, [R], C3 Juan; Consultant: GSK, [R], C3 Juan, Colgate; Stock Shareholder: C3 Juan Dental, GSK, J&J, C3 Juan; Honorarium: GSK, [R], C3 Juan, Colgate
Small, Joel C. – Stock Shareholder and Financial/Material Support: Phase II Associates
Trop, Martin – Consultant: SybronEndo
West, John D. – Consultant: DENTSPLY Tulsa Dental Specialties; Stock Shareholder and Co-Developer: ProTaper and Calamus Endodontic Technologies
Wildes, William L. – Consultant: Discus Dental, Inc.

The following have no proprietary, financial or other personal interest pertaining to their presentation to disclose:

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Williamson, Anne E.
Witherspoon, David E.
Wittemauer, Richard C.
Wolcott, James F.
Wong, Rulan D.
Wood, Patrick J.
Wu, Min-Kai
Zucker, Kenneth J.
**REGISTRATION FORM**

Form designed for one registrant and guest(s). Additional registrants, including Professional Staff, must duplicate the form.

### Registrant’s Information

**Family Name**  
**First Name**  
**Nickname for Badge**

**Address**

**City**  
**State/Country**  
**Zip/Postal Code**

**Phone**  
**Fax**  
**E-mail**

### Alliance and Family/Guest Information

*Please complete only if you are registering and including payment for an AAE Alliance or family/guest package.*

**Last Name (Alliance)**  
**First Name**  
**Nickname for Badge**

**Last Name(s) (Family/Guest)**  
**First Name(s)**  
**Nickname(s) for Badge**

### Registration Packages/Fees (See reverse for details)

<table>
<thead>
<tr>
<th>Check Appropriate Package</th>
<th>Early (by March 10)</th>
<th>Standard</th>
<th>Amount</th>
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<tr>
<td>☑ AAE Professional</td>
<td>$945</td>
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<tr>
<td>☑ AAE Active 1st Year</td>
<td>$473</td>
<td>$623</td>
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<tr>
<td>☑ AAE Professional Staff</td>
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<td>☑ Family/Guest</td>
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</table>

### Workshops (See page 13 for details; online or fax only)

**Wednesday**
- Endodontic Microsurgery $800 $850
- Endodontic Revascularization Technique $700 $750

**Thursday**
- Fitness and Hand Care $25 $35
- Cleaning and Shaping $400 $450
- Demystifying Digital Radiography $25 $35

**Friday**
- CPR and Basic Life Support (a.m.) $60 $70
- Integration of Implants in Endodontics $800 $850
- CPR and Basic Life Support (p.m.) $60 $70

**Saturday**
- Retreatment $800 $850

### Session Recordings and Online CE (See page 67 for details)

<table>
<thead>
<tr>
<th>Check Appropriate Package</th>
<th>Pre-Meeting Discount</th>
<th>Amount</th>
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<td>☑ Unlimited Online Access</td>
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<tr>
<td>☑ Unlimited Online Access and CD Archive</td>
<td>$249</td>
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</tbody>
</table>

### Additional Tickets (For tickets not included in your registration package—see reverse)

**Wednesday**
- General Session $20 $30
- Edgar D. Coolidge Luncheon $45 $55

**Thursday**
- President’s Breakfast $35 $45
- Louis I. Grossman Luncheon $45 $55

**Friday**
- AAE Alliance Breakfast and Tour $55 $65
- AAE Alliance Tour Only $25 $35
- General Assembly Luncheon $45 $55
- AAE Family Fun Night (adult) $50 $50
- AAE Family Fun Night (5-12 yrs. old) $25 $25

**Saturday**
- Golf Outing $195 $205
- President’s Event $65 $75

### Commemorative Shirt (Indicate quantity after each size)

**Men’s**
- S  
- M  
- L  
- XL  
- XXL  
- X $50 each

**Women’s**
- S  
- M  
- L  
- XL  
- XXL  
- X $50 each

### Subtotal 1 $ [ ]

### Subtotal 2 $ [ ]

### Subtotal 3 $ [ ]

### TOTAL ENCLOSED U.S. $ [ ]

### Method of Payment (Please check one)

- ☑ Visa  
- ☑ MasterCard  
- ☑ American Express  
- ☑ Discover  
- ☑ Check

**Card Number**  
**Expiration Date**  
**Card Holder’s Name (print)**  
**Signature**

Fax your completed form with credit card information to 866/451-9020 (North America) or 312/266-9867 (International), or mail with check to the address shown on reverse side by March 10, 2010.
REGISTRATION FORM

Registration packages include the following:

AAE Professional/Active 1st Year/Student/Professional Staff and Professional/Student/Professional Staff Guest Packages: Sessions and Exhibits, General Session With Keynote Speaker, Coolidge Luncheon, Welcome Reception, President’s Breakfast, General Assembly Luncheon, Celebrate San Diego!

AAE Alliance Package: Alliance membership dues, Welcome Reception, Celebrate San Diego!, Exhibits.

Family/Guest Package: Welcome Reception, Celebrate San Diego!, Exhibits.

Please Note: Tickets for all attendees are required for all workshops (page 13), the Louis I. Grossman Memorial Luncheon (page 71), the AAE Alliance Breakfast and Tour (page 77), AAE Family Fun Night (page 72), the Golf Outing (page 72) and the President’s Event Featuring Jay Leno (page 73).

Methods of Registration

Please choose one of the following methods to register for the 2010 Annual Session.

Online: The Fastest, Most Efficient Way to Register!

Members are highly encouraged to register using the AAE online registration system at www.aae.org/annualsession. Benefits include instant confirmation for workshops and other limited attendance activities, and an extended registration date. Visa, Mastercard, American Express and Discover cards accepted.

Fax

Complete the enclosed Registration Form, include your Visa, MasterCard, American Express or Discover information and fax it, toll-free to 866/451-9020 (North America) or 312/266-9867 (International).

Mail

You may send your completed Registration Form with payment to:

American Association of Endodontists
Attn: Annual Session Registration
211 E. Chicago Ave., Suite 1100
Chicago, IL 60611-2691

Session Recordings and Online CE

2010 Annual Session recordings are available for purchase through the AAE Live Learning Center or this Registration Form. We are pleased to offer unlimited online access to educational sessions, synchronized audio, video and presentation components, speaker handouts in PDF format, and the ability to earn CE credit online! For details, see page 67 or visit www.aae.org/livelearningcenter.
FUTURE ANNUAL SESSION DATES

2011
San Antonio, Texas
San Antonio Convention Center
April 13 – 16

2012
Boston, Massachusetts
Hynes Convention Center
April 18 – 21

2013
Honolulu, Hawaii
Hawai’i Convention Center
April 17 – 20

2014
Washington, D.C.
Gaylord National Resort and Convention Center
April 30 – May 3

2015
Seattle, Wash.
Washington State Convention and Trade Center
May 6 – 9

2016
San Francisco, Calif.
Moscone Convention Center
April 6 – 9
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