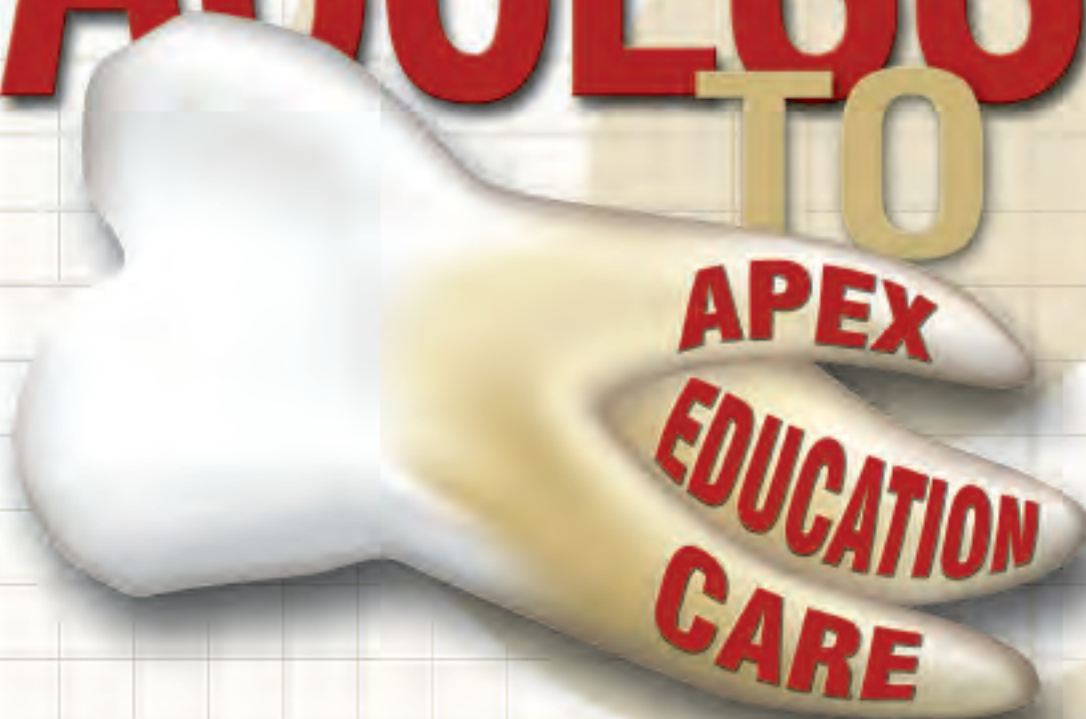


Earn up to
29 hours
of CE credit!

ACCESS TO



AAE '10
ANNUAL SESSION

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





SAN DIEGO ACCESS TO CARE PROJECT

Saturday, April 17, 2010 • 9 a.m. – 5 p.m.

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!**



AAE '10

ANNUAL SESSION

**INNOVATIVE
AND EXCITING,
FOR YOU!**

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!

Master Clinician Series

The theater-in-the-round setting returns, this year with **LIVE surgical demonstrations.**

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.

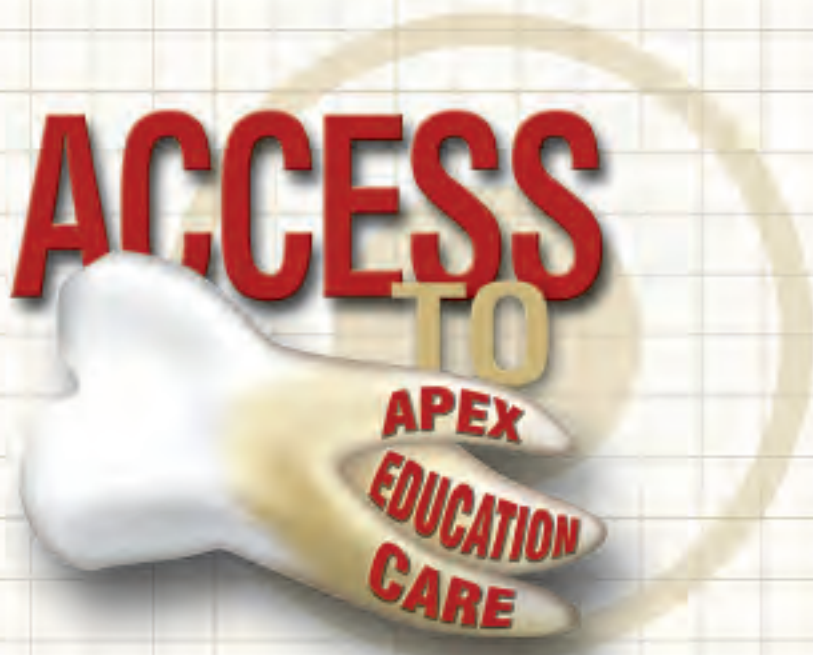


Maintaining your health regimen at the meeting will be easier than ever, with daily StayFit! classes, the return of the **AAE Fun Run/Walk** and special posture evaluations.

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



President

Gerald N. Glickman, D.D.S., M.S.,
M.B.A., J.D.
Dallas, Texas



President-Elect

Clara M. Spatafore, D.D.S., M.S.
Sewickley, Pa.



Vice President

William T. Johnson, D.D.S., M.S.
Iowa City, Iowa



Secretary

James C. Kulild, D.D.S., M.S.
Kansas City, Mo.



Treasurer

Robert S. Roda, D.D.S., M.S.
Scottsdale, Ariz.



Immediate Past President

Louis E. Rossman, D.M.D.
Philadelphia, Pa.



Executive Director

James M. Drinan, J.D.
Chicago, Ill.



Editor

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



AAE Foundation President

A. Eddy Skidmore, D.D.S., M.S.
Boynton Beach, Fla.

District I Directors



Anthony T. Borgia, D.D.S.
Plymouth, Mass.



Margot T. Kusienski, D.M.D.,
M.S.Ed., M.M.Sc.
Lititz, Pa.

District II Directors



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



Hank Schiffman, D.D.S.
New York, N.Y.

District III Directors



Sheldon R. Mann, D.D.S.
Sarasota, Fla.



Steven Roberts, D.D.S.
Augusta, Ga.

District IV Directors



George T. Goodis, D.D.S.
Grosse Pointe, Mich.



Martha E. Proctor, D.D.S., M.S.
Chicago, Ill.

District V Directors



Robert A. Augsburger, D.D.S., M.S.D.
Tulsa, Okla.



Anthony P. Joyce, D.D.S.
Wahiawa, Hawaii

District VI Directors



David C. Funderburk, D.D.S., M.S.
Greeley, Colo.



Kenneth J. Zucker, D.D.S., M.S.
Saint Paul, Minn.

District VII Directors



Joseph H. Schulz, D.D.S.
Oakland, Calif.



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

AAE ANNUAL SESSION PLANNING COMMITTEE



General Chair

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



Program Chair

Sandra Madison, D.D.S., M.S.
Asheville, N.C.



Program Vice Chair

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



Immediate Past General Chair

Ronald I. Deblinger, D.M.D.
Clifton, N.J.



Professional Staff Chair

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



Professional Staff Representative

Lynda L. Davenport
Nashville, Tenn.



Workshop Chair

David E. Witherspoon, B.D.S., M.S.
Plano, Texas



Resident and New Practitioner Representative

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



Professional Staff Chair-Designate

Terry I. Propper, D.D.S., M.S.
Brentwood, Tenn.

AAE FOUNDATION BOARD OF TRUSTEES



President

A. Eddy Skidmore, D.D.S., M.S.
Boynton Beach, Fla.



Vice President

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



Secretary

GorgAnna Randolph
Cedar Park, Texas



Treasurer

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



Executive Director

James M. Drinan, J.D.
Chicago, Ill.

Trustees



Robert A. Coleman, D.D.S., M.S.
Livonia, Mich.



Peter A. Morgan, D.M.D.
Peabody, Mass.



Mary T. Pettiette, D.D.S.
Pinehurst, N.C.



Maureen L. Swift, D.D.S., M.S.D.
Bellevue, Wash.



Kevin M. Keating, D.D.S., M.S.
Sacramento, Calif.



Bill Newell
Tulsa, Okla.



Michael Stone
Long Island City, N.Y.



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

AAE Officers Serving as Trustees



President

Gerald N. Glickman, D.D.S.,
M.S., M.B.A., J.D.
Dallas, Texas



President-Elect

Clara M. Spatafore, D.D.S., M.S.
Sewickley, Pa.



Vice President

William T. Johnson, D.D.S., M.S.
Iowa City, Iowa



Immediate Past President

Louis E. Rossman, D.M.D.
Philadelphia, Pa.

AMERICAN BOARD OF ENDODONTICS BOARD OF DIRECTORS



President

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



Secretary

Stephen J. Clark, D.M.D.
Louisville, Ky.



Treasurer

Ashraf Fouad, B.D.S., D.D.S., M.S.
Baltimore, Md.



Counselor

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

Directors



John F. Hatton, D.M.D.
Edwardsville, Ill.



Michael M. Hoen, D.D.S.
West Bloomfield, Mich.



James D. Johnson, D.D.S., M.S.
Seattle, Wash.



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



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



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

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

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



Alan H. Gluskin

Alan H. Gluskin, D.D.S.
General Chair

TABLE OF CONTENTS



NEW! Daily Planner.....	8
Schedule At-A-Glance	9
Educational Tracks	10
Workshops	13
Sponsors	14
Master Clinician Series	15
Educational Sessions.....	16
ABE Boardwalk	47
Resident and New Practitioner Career Fair	55
Educator Forum	64
Live Learning Center	67
Exhibits	68
Special Events	70
NEW! StayFit! Fitness Program	70
NEW! AAE Family Fun Night	72
NEW! San Diego Access to Care Project.....	73
General Session, <i>Celebrate San Diego!</i> and President's Event	75
Alliance Activities.....	76
Alumni and Affiliate Functions	78
Other Functions	79
General Information	80
Hotel and Travel.....	82
Registration Information	84
Optional Tours	86
San Diego Attraction Tickets	87
Manchester Grand Hyatt Floor Plan	88
San Diego Convention Center Floor Plan	89
In Recognition	90
Speaker Index	91
Speaker and Moderator Disclosure Statements.....	92
Registration Form	93
Future Annual Session Dates	95

DAILY PLANNER

Wednesday, April 14

6 a.m.

8 a.m. General Session

9 a.m.

10:30 a.m. Educational Sessions –
Hot Topics and Controversies Focus

11 a.m.

Noon Edgar D. Coolidge Luncheon

1:45 p.m. Educational Sessions –
Hot Topics and Controversies Focus

2 p.m.

3 p.m.

4 p.m.

5 p.m.

6:30 p.m. Welcome Reception

Thursday, April 15

6 a.m.

8 a.m. President's Breakfast

9 a.m.

10 a.m. Exhibits Open

11:30 a.m. Louis I. Grossman Memorial Luncheon

Noon

1:30 p.m. Educational Sessions

2 p.m.

3 p.m.

4 p.m.

5 p.m.

Evening Alumni and Affiliate Events

Friday, April 16

6 a.m.

7 a.m.

8 a.m. Exhibits Open

8:30 a.m. Educational Sessions

9 a.m.

10 a.m.

11 a.m.

Noon General Assembly Luncheon

1:45 p.m. Educational Sessions

2 p.m.

3 p.m.

4 p.m.

5 p.m. Exhibit Hall Happy Hour and Foundation Live Auction

6 p.m.

9 p.m. Celebrate San Diego!

Saturday, April 17

6 a.m.

8 a.m.

9:15 a.m. Exhibits Open
Educational Sessions

10 a.m.

11 a.m.

Noon

1:45 p.m. Educational Sessions

2 p.m.

3 p.m.

4 p.m.

5 p.m.

6 p.m.

9 p.m. President's Event



SCHEDULE AT-A-GLANCE

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

Please refer to the Educational Sessions portion of this program for session room assignments. A separate program detailing Oral and Poster Research Presentations and Table Clinics will be distributed on site.

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

1:30 – 4:30 p.m. **Poster Research Presentations and Table Clinics**
Exhibit Hall B-1/SCC

3 – 3:30 p.m. **Break**

3:30 – 5 p.m. **Educational Sessions and Oral Research Presentations**
Upper and Mezzanine Levels/SCC

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**
Elizabeth Ballrooms/MH
District I – A District V – F
District II – B District VI – G
District III – C District VII – H
District IV – DE

Friday, April 16 continued

7 a.m. – 6 p.m. **Registration and Information**
Ground Level/SCC

AAE Oasis Open
Upper Level/SCC

7:45 – 8:30 a.m. **Affiliate Leadership Meeting**
Elizabeth Ballroom 1/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

3:15 – 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

EDUCATIONAL TRACKS

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.

New All-Day Focus

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

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

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

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 Pulp
- 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

EDUCATIONAL TRACKS

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-200: Alveolar Preservation: The Precursor of Predictable Implant Dentistry—Rationale, Clinical Guidelines and Biomaterial Selection

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.

Wm. 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.

Equipment and supplies for some courses have been provided by several companies. A complete list will be available on site.

SPONSORS

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

Diamond Sponsor

Celebrate San Diego!

PracticeWorks/Kodak Dental Systems

Diamond Sponsor

Welcome Reception, General Session and Keynote Speaker, Exhibit Hall Happy Hour, Endo-Mail Kiosks and Notebooks/Pens

DENTSPLY International

Platinum Sponsor

General Assembly Luncheon and Resident Awards

Morita

Gold Sponsor

Master Clinician Series

Elsevier

Silver Sponsor

International Reception

Henry Schein Dental/Henry Schein Cares

Silver Sponsor

San Diego Access to Care Project

Schick Technologies

Silver Sponsor

Registration Bags

SybronEndo

Silver Sponsor

Foundation Leadership Donor Reception

Treloar & Heisel Inc. and MedPro

Silver Sponsors

Resident Reception and Name Badge Wallets

Brasseler USA and PBS Endo

Professional Staff Reception

Endoco

Professional Staff Coffee



MASTER CLINICIAN SERIES

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

WEDNESDAY

8 a.m. – 5 p.m.

S-100

Room 16

Endodontic Microsurgery Workshop



Richard A. Rubinstein, D.D.S.
Farmington Hills, Mich.

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?



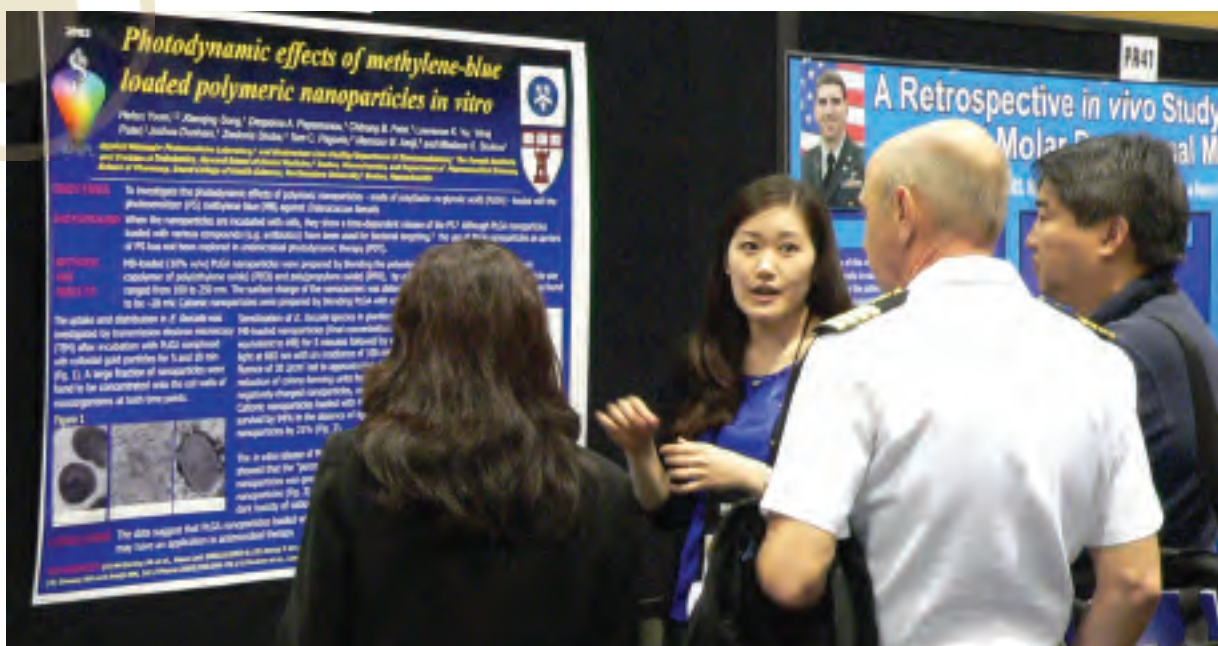
Elisabetta Cotti, D.D.S., M.S.
Cagliari, Italy

*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.



10:30 a.m. – noon

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.

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

WEDNESDAY

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.

NS-100

Room 8

We're Endodontists–We Save Teeth



C. John Munce, D.D.S.
Santa Barbara, Calif.

*Moderator: Tota Shimizu, D.D.S.
Glendale, Calif.*

Claims that dental implants are nearly failure-proof challenge the rationale for complex endodontic procedures. Endodontists now risk losing tooth-saving skills hard-won over generations and difficult to re-learn should we discover the implant is not the panacea it was purported to be. Patients who prefer to retain natural teeth or who are not suitable implant candidates often require extraordinary endodontic skill. This lecture promotes the preservation of that skill-set through high-magnification clinical videos demonstrating management of a variety of complex endodontic challenges.

At conclusion, participants should be able to:

- Describe clinical steps and advantages of a variety of creative isolation techniques.
- List clinical steps involved in various obstruction management techniques.
- Describe clinical steps, case selection and advantages of instant extrusion techniques.

NSR-100

Room 3

Engineering of Functional Human Dental Pulp



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.

NSR-101

Room 9

Translating Science Into the Art of Pain Management



Sharon M. Gordon, D.D.S., M.P.H., Ph.D.
Baltimore, Md.

*Moderator: Priya Sharma-Chand, B.D.S., M.D.S.
Baltimore, Md.*

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.

NSR-102

Room 11

Regenerative Endodontics—Biology and Clinical Update



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

*Moderator: Ashraf F. Fouad, B.D.S., D.D.S., M.S.
Baltimore, Md.*

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 the objective of endodontic revascularization/regeneration.
- Summarize the findings from endodontic regeneration/revascularization case reports and case series.
- Describe clinical variables that are associated with favorable outcomes following endodontic revascularization/regeneration.

SP-101

Room 4

Update on Irrigant Agitation Techniques and Devices



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

*Moderator: Robert A. Handysides, D.D.S.
Loma Linda, Calif.*

Microorganisms in the root canal system can initiate periapical inflammatory lesions. The aim of the root canal treatment is to eliminate microorganisms from the infected root canal and to prevent reinfection. Biomechanical preparation greatly reduces the number of bacteria. Nevertheless, organic and inorganic residues and bacteria cannot be reached completely. Therefore, various substances and delivery systems have been used during the canal preparation to enhance the outcome. Currently, effective irrigant delivery is a prerequisite for successful endodontics. This lecture will present an overview of the irrigant agitation methods currently available, their debridement efficacy and their potential risks.

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

NA Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

WEDNESDAY

10:30 a.m. – 5 p.m.

NSR-103

Room 17

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 – 2:45 p.m.

SP-102

Room 14B

Challenges With NiTi Rotary Instruments



Michael S. Marmo, D.M.D.
Newtown, Pa.

*Moderator: Zachary Dodson, D.D.S.
San Francisco, Calif.*

Nickel-titanium rotary instruments have made the cleaning and shaping of root canals faster, easier and more efficient than ever before. Although this technology is widely used, certain limitations still exist. Can NiTi rotary files clean and shape every root canal configuration? At what point does speed and efficiency take priority over sound biological principles? This presentation will reveal these limitations and offer simple solutions to overcome them.

At conclusion, participants should be able to:

- Describe the difference between efficiency and effective instrumentation while utilizing NiTi rotary instruments.
- Identify the limitations of NiTi rotary instruments in regard to common anatomical challenges such as apical diameter and the canal isthmus.
- Discuss solutions to the common limitations of NiTi rotary instruments.

1:45 – 3:15 p.m.

HTC-103

Room 1

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.

HTC-104

Room 5

Bonded Obturation vs. Gutta-Percha



Martin Trope, D.M.D.
Philadelphia, Pa.



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

*Moderator: John M. Nusstein, D.D.S., M.S.
Dublin, Ohio*

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.

NS-101

Room 3

A Revolutionary New Paradigm in NiTi Instrumentation



Zvi Metzger, D.M.D.
Tel Aviv, Israel

*Moderator: Peter D. Cancellier, D.D.S.
Carlsbad, Calif.*

Rotary NiTi files represent a great progress in endodontics; nevertheless they all have in common certain limitations. These limitations will be defined and discussed, leading to the conclusion that an out-of-the-box approach in file design is required to overcome them. A revolutionary endodontic file

will be presented—the self-adjusting file. The mechanical properties of the new file will be presented together with microCT and SEM analysis of the shaping and cleaning of the root canal. Clinical results will also be presented and discussed. At conclusion, participants should be able to:

- Identify the limitations of current NiTi rotary files.
- Describe the concept of the new self-adjusting file and its mode of action in cleaning and shaping root canals.
- Describe the results of obturation in flat, oval, root canals treated with the self adjusting file and compare them with those obtained in root canals prepared with rotary NiTi files.

NS-102

Room 2

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

NA Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

1:45 – 3:15 p.m.

continued

WEDNESDAY

NS-103

Room 4

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.

Please Note: Those attending Thursday's Cleaning and Shaping Workshop (see page 28), are encouraged to attend this session.

NSR-104

Room 11

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.

PM-100

Room 8

Endodontic Practice Transitions: A Thoughtful Process



Earl M. Douglas II, D.D.S., M.B.A.
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.*

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. 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 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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

WEDNESDAY

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.

Hall A

MC

3:30 – 4:30 p.m.

SP-103

Room 14B

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.



3:30 – 5 p.m.

HTC-105

Room 1

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

Room 2

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

Room 4

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

NA Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

WEDNESDAY

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

RNP

Earl M. Douglas II, D.D.S., M.B.A.
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 **RNP T**

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 importance of practice branding through customer service, including ideas for creating "wow" service.

S-101

Room 11

Save or Extract Teeth: What Do Systematic Reviews Reveal?



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



Shane N. White, B.Dent.Sc., M.S., M.A., Ph.D.
Los Angeles, Calif.

*Moderator: Mychel M. Vail, D.D.S.
Indianapolis, Ind.*

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.

SP-104

Room 3

Elevating the Bar in Microsurgery: From Success to Service



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

*Moderator: Michael M. Hoen, D.D.S.
West Bloomfield, Mich.*

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

1 – 5 p.m.

NS-200

Room 16

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.

1:30 – 2:30 p.m.

SP-200

Room 3

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 Noblett, 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.

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.

THURSDAY



Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

1:30 – 3 p.m.

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 operator 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 operator 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

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

1:30 – 3 p.m.

continued

PS-201

Room 14B

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.

S-200

Room 5

Alveolar Preservation: The Precursor of Predictable Implant Dentistry—Rationale, Clinical Guidelines and Biomaterial Selection



Jaime L. Lozada, D.D.S.
Loma Linda, Calif.

*Moderator: Louis H. Berman, D.D.S.
Annapolis, Md.*

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.

1:30 – 5 p.m.

MC-2

Hall A

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.

THURSDAY

Sessions of Interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

3:30 – 5 p.m.

continued

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.



NSR-200

Room 2

Phototargeting Endodontic Infection



Nikolaos S. Soukos, Ph.D., D.D.S.
Boston, Mass.

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

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.

PM-200 continued

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*

This is a continuation of an earlier session; see page 31 for a complete session synopsis.

PM-201

Room 8

Benefits and Pitfalls of a Digital Paperless Office



S. Ryan Facer, D.D.S.
Post Falls, Idaho

*Moderator: Thomas L. Goddard, D.D.S.
Greenfield, Wis.*

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

3:30 – 5 p.m.

continued

PS-202

Room 4

Posture, Pain and Productivity in Dentistry



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

*Moderator: Melinda S. Otto
Mankato, Minn.*

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.

PS-203

Room 15

Demystifying Digital Radiography Workshop



*Moderator: Michael S. Austin, M.B.A.
Tucson, Ariz.*

Workshop Fee: \$25 early/\$35 standard

Four vendors, DEXIS Digital X-Ray, Gendex Dental Systems, PracticeWorks/Kodak Dental Systems and Schick Technologies, will have demonstrations and discussion occurring simultaneously during this workshop. Attendees can move between vendors or stay with the vendor of their choice. Participants will learn directly from the manufacturer about sensor techniques for efficient and quality x-rays. Each will offer suggestions on computer settings to improve the image and enhance post-op

communication. Each company can inform attendees of any software updates or new offerings. Come prepared with any questions since the representatives will be most interested in your enhanced training and education of their x-ray system to best support your doctor.

At conclusion, participants should be able to:

- Describe proper sensor placement for quality x-rays.
- Improve the final image quality.
- Use and understand the software to best assist and support the doctor.

S-201

Room 5

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



Joseph Y. Kan, D.D.S.
Loma Linda, Calif.

*Moderator: Kenneth J. Zucker, D.D.S., M.S.
Saint Paul, Minn.*

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.

8:30 – 10 a.m.

NS-300

Room 2

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.

NS-301

Room 3

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.

NS-302

Room 4

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.

FRIDAY

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

8:30 – 10 a.m.

continued

NS-303

Room 11B

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.

NSR-300

Room 15

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.



PM-300

Room 7B

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.

PM-301

Room 8

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.

PS-300

Room 11A

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

NA Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

8:30 – 11:45 a.m.

MC-3

CT-Guided Apical Surgery



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

*Moderator: David E. Witherspoon, B.D.S., M.S.
Plano, Texas*

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 apicectomy 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.

Hall A

MC

8:30 a.m. – 5 p.m.

S-302

Room 16

Integration of Implants in Endodontics Workshop

W



Evan A. Lynn, D.D.S.
New York, N.Y.

*Moderator: Benjamin H. Adams, D.D.S.
Indianapolis, Ind.*

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

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.

FRIDAY

10:15 – 11:15 a.m.

SP-303

Room 7A

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

Room 14A

Odontogenic Infections: Diagnosis and Management



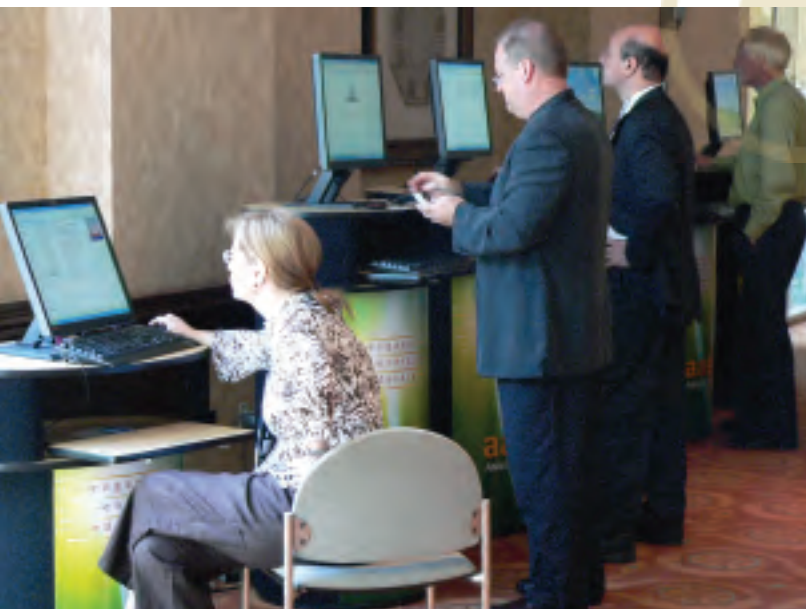
Jonathan J. Madras, D.D.S.
Hollywood, Fla.

*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.



FRIDAY

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

10:15 – 11:45 a.m.

NS-304

Room 2

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.

NS-305

Room 3

Polymer-Based Endodontic Files and Ultrasonic Tips



James K. Bahcall, D.M.D., M.S.
Milwaukee, Wis.

*Moderator: Emad Bassali, D.D.S.
Sherman Oaks, Calif.*

The advancement of polymer science and technology have allowed for the development of polymer-based endodontic rotary files and ultrasonic tips. With any new technology, an endodontist needs to be educated on the current scientific research, and clinical advantages and disadvantages of polymer-based instruments. This lecture will provide information on the research and clinical application of this new state-of-the-art rotary file and ultrasonic tip technology.

At conclusion, participants should be able to:

- Describe the technology involved in creating polymer-based rotary files and ultrasonic tips.
- Describe the clinical advantages and disadvantages of polymer-based ultrasonic tips over metal ultrasonic tips currently used in conventional and surgical endodontic treatment.
- Describe the clinical advantages and disadvantages to polymer-based rotary files as compared to nickel-titanium rotary files that are currently used in conventional endodontic treatment.

NS-306

Room 11B

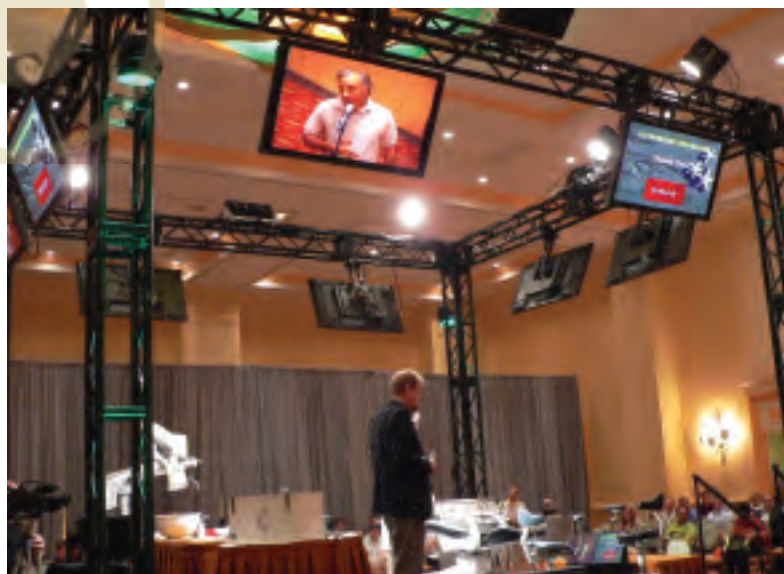
Debriding and Debugging Root Canal Systems



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.

NS-307

Room 15

Endodontic Exacerbation



Paul A. Rosenberg, D.D.S.
New York, N.Y.

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

Exacerbations may occur unexpectedly. Treating patients with similar symptoms, diagnostic findings and comparable medical histories, and using the same clinical approach may not result in a common outcome. There are factors that may predispose a patient to pain and complicate treatment. Some of these factors are not under the clinician's control and may not be readily recognizable. The effects of genetics, gender and anxiety, as well as other predictors of pain will be examined. This presentation will also review biologically based strategies directed at prevention and/or treatment of exacerbations.

At conclusion, participants should be able to:

- Recognize factors that may predispose patients to exacerbation.
- Describe iatrogenic causes of exacerbation.
- Identify appropriate strategies to prevent/treat exacerbation.

PM-301 continued

Room 8

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

Room 7B

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

Room 14B

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

NA Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

10:15 – 11:45 a.m.

continued

S-301 continued

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.*

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

S-303

Room 11A

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.

SP-305

Room 1

The Magic of Mastering the Glide Path: What Every Endodontist Should Know



John D. West, D.D.S., M.S.D.
Tacoma, Wash.

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

E



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.

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.

FRIDAY

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

NA Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

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. Ruddie, 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.

PM-303

Room 7B

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.

PM-304

Room 8

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.

At conclusion, participants should be able to:

- List the basic issues of wealth management.
- Summarize the financial planning process and be able to identify areas in need of attention.
- Apply their goals and objectives to their unique plan and be able to monitor it on an ongoing basis.

PM-305

Room 15

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.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

NA Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

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.
Philadelphia, Pa.

*Moderator: Debra L. Walters, 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.

FRIDAY



S-305

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.

Room 5



SP-309

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.

Room 4



Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

1:45 – 5 p.m.

MC-4

Hall A

Periradicular Palatal Surgery

MC



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

*Moderator: Kenneth W. Tittle, D.D.S., M.S.
Pleasant Hill, Calif.*

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.

SP-311

Room 14A

For Diplomates Only: Update and Improve Your Mentoring Skills

E



Christopher S. Wenckus, D.D.S.
Chicago, Ill.

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

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.

3:30 – 4:30 p.m.

SP-310

Room 4

Predictable Removal of Obstructions and Separated Instruments



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

*Moderator: Toby L. Comer, D.D.S.
Grand Island, Neb.*

3:30 – 5 p.m.

NS-310

Room 1

Testing the Limits of Endodontic Treatment



Donald E. Arens, D.D.S., M.S.D.
Indianapolis, Ind.

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.
Terry 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.

PM-303 continued

Room 7B

Energize Your Life and Your Practice

RNP T

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

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

This is a continuation of an earlier session; see page 49 for a complete session synopsis.

PM-304 continued

Room 8

Estate and Asset Protection

RNP

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

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

This is a continuation of an earlier session; see page 49 for a complete session synopsis.

PS-303 continued

Room 14B

CPR and Basic Life Support Workshop

W T

LifeGuard Medical Solutions
Nashville, Tenn.

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

FRIDAY

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

3:30 – 5 p.m.

continued

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-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.

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-307

Room 15

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.

SP-312

Room 3

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

E



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.

SP-313

Room 9

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.

FRIDAY

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

9:15 – 10:15 a.m.

SP-400

Room 7B

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.

SP-401

Room 7A

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

Room 2

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

Room 3

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.



SATURDAY

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

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

RNP T



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 **RNP T**



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 **RNP T**



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

Room 16

Retreatment Workshop

W



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

Room 3

Maximizing the Use of Dental Assistants While Performing Microsurgical Endodontics

T



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.

SP-403

Room 7A

Take the Mystery out of Dental Implants—How to Incorporate Implants Into an Endodontic Practice



Paul R. Mancia, D.D.S.
Harveys Lake, Pa.

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

We as endodontists treat the roots of teeth and surrounding bone. Implants are nothing more than a root substitute. Endodontists should be the leaders in saving teeth when possible and replacing teeth with implants when necessary. When should endodontic therapy end and implant therapy begin?

At conclusion, participants should be able to:

- Describe how to introduce implants into an endodontic practice.
- Identify how to avoid the pitfalls of implant dentistry.
- Describe how to answer critics and expand the endodontic practice by predictably replacing nonrestorable teeth with implants.

SATURDAY

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

11 a.m. – noon

continued

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.

11 a.m. – 12:30 p.m.

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.

NS-404

Room 2

Strategies to Deal With Endodontic Post-Treatment Disease



Min-Kai Wu, M.D., Ph.D.
Amsterdam, Netherlands

*Moderator: Rajiv Bhagat, D.D.S.
Ontario, Calif.*

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.

PM-400 continued

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*

This is a continuation of an earlier session; see page 58 for a complete session synopsis.

PM-401 continued

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 is a continuation of an earlier session; see page 58 for a complete session synopsis.

PS-400 continued

Room 9

Creating a Better You

Christine Dumas
Palos Verdes Estates, Calif.

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

This is a continuation of an earlier session; see page 58 for a complete session synopsis.

Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team

W Workshop **MC** Master Clinician Series

Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

1:45 – 2:45 p.m.

SP-406

Room 7B

How to Perform Your Retro Preparation and Retro Filling Through the Sinus Cavity



Charbel R. Allam, D.D.S.
Beirut, Lebanon

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

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.

1:45 – 3:15 p.m.

NS-405

Room 2

Micro-CT Image Analysis: Possible Clinical Implications Based on Recent Research



Frank Paque, D.M.D.
Zurich, Switzerland

*Moderator: Leslie L. Wang, D.M.D.
Vancouver, British Columbia, Canada*

The main advantage of using micro-computed tomography (μ CT) 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 μ CT 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 μ CT image analysis. This presentation will give an overview of current endodontic research using μ CT. It will discuss the results and the possible clinical implications achieved with these novel μ CT 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.

PM-402

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.

Room 5



PM-403

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.

Room 8



Sessions of interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team



Workshop



Master Clinician Series



Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

1:45 – 3:15 p.m.

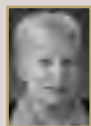
continued

SP-405

Room 7A

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

E



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

Room 7A

Emerging Technologies and How They are Changing Dental Education

E



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

Room 7B

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.

SATURDAY

Sessions of Interest to:

E Educators **RNP** Resident and New Practitioners **T** Endodontic Team



Workshop



Master Clinician Series



Not Accepted by the Dental Board of California

EDUCATIONAL SESSIONS

3:30 – 5 p.m.

NS-406

Room 2

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.

NS-407

Room 4

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.

PM-402 continued

Room 5

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

RNP

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.

PM-403 continued

Room 8


Four Generations + Two Genders = One Workplace

RNP T

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.



*This year, take
the Annual Session
home with you!*

LIVE LEARNING CENTER



Experience the Annual Session courses as they were recorded—online—via the AAE Live Learning Center, and earn even more CE credit after the meeting is over!

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!

In addition, CE credit for sessions you may have missed can be earned by taking an online test. Credit hours will be tracked in your Live Learning Center account online. Or, listen to your favorite speakers and use the recordings as training tools.

Access Annual Session content online with the option of earning CE credit—WHENEVER you want it!

ACT NOW AND SAVE \$100 BY PURCHASING THE RECORDINGS WITH YOUR REGISTRATION!

	Pre-Meeting Discount (through 4/2/10)	Standard Price (after 4/2/10)
Unlimited Online Access	\$199	\$299
Unlimited Online Access and CD Archive	\$249	\$349

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 for the most up-to-date listing.



Acadental
913/384-7390
www.acadental.com

Acteon North America
800/289-6367
www.acteongroup.com

American Express OPEN
212/640-2000
www.open.com

Aseptico
425/487-3157
www.aseptico.com

ASI Medical, Inc.
800/566-9953
www.asimedial.net

Aspen Dental
866/533-0429
www.aspendentaljobs.com

B & L BIOTECH, INC.
822/565-4757
www.bnlbio.com

Bank of America Practice Solutions
800/360-0667
www.bankofamerica.com/practicesolutions

Brasseler USA
912/925-8525
www.brasselerusa.com

Carl Zeiss Meditec
925/557-4100
www.meditec.zeiss.com/us

CK Dental Industries
714/639-6990
www.ckdental.net

Coltene Whaledent, Inc.
330/916-8800
www.coltenewhaledent.com

DENTSPLY International
800/877-0020
www.dentsply.com

DENTSPLY Maillefer
800/662-1202
www.maillefer.com

DENTSPLY Rinn
800/323-0970
www.rinncorp.com

DENTSPLY Tulsa Dental Specialties
800/662-1202
www.tulsadental.dentsply.com

Designs for Vision, Inc.
800/345-4009
www.designsforvision.com

DEXIS Digital X-ray
888/883-3947
www.dexis.com

Discus Dental, LLC
800/422-9448
www.discusdental.com/endo

DOCS Education
877/812-0130
www.docseducation.com

Endo Shopper, A Division of Darby Dental
800/464-3022
www.endoshopper.com

Endo Technic
877/477-8899
www.endotechnic.com

EndoVision—Henry Schein Practice Solutions
801/763-9300
www.endovision.info

Essential Dental Systems
201/487-9090
www.eds.dental.com

Franklin Dental Supply
800/972-7917
www.franklindentalsupply.com

G. Hartzell & Son
925/798-2206
www.ghartzellandson.com

Gendex Dental Systems
888/275-5286
www.gendex.com

Global Surgical Corporation
800/767-8726
www.globalsurgical.com

HealthFirst Corporation
800/331-1984
www.healthfirst.com

Henry Schein
414/321-8881
www.henryschein.com

Hu-Friedy Mfg. Co., Inc.
773/975-6100
www.hu-friedy.com

Imaging Sciences International
267/954-0227
www.i-cat.com

J. Morita USA, Inc.
949/581-9600
www.jmoritausa.com

Jedmed Instrument Company
314/845-3770
www.jedmed.com

Jordco, Inc.
800/752-2812
www.jordco.com

Kilgore International, Inc.
517/279-9000
www.kilgoreinternational.com

Medelita
949/542-4100
www.medelita.com

Medical Protective
800/463-3776
www.medpro.com

Medidenta.com
718/672-4670
www.medidenta.com

Meta Biomed, Inc.
269/282-5893
www.meta-biomed.com

Metalift Crown and Bridge Removal
800/928-9289
www.metalift.com

Microsurgery Instruments, Inc.
713/664-4707
www.microsurgeryusa.com

Milestone Scientific
800/862-1125
www.milestonescientific.com

Miltex
866/854-8300
www.miltex.com

Obtura Spartan
800/344-1321
www.obtura.com

Orascopic
800/369-3698
www.orascopic.com

Osada, Inc.
310/841-2220
www.osadausa.com

Patterson Dental Supply, Inc.
800/873-7683
www.pattersondental.com

PBHS, Inc.
707/566-6901
www.pbhs.com

PBS Endo
800/535-0198
www.pbsendo.com

Phase II Associates, LLC
214/540-8485
www.phasetwoassociates.com

Plastic Endo, LLC
866/752-3636
www.plasticendo.com

PracticeWorks Inc./Kodak Dental Systems
800/944-6365
www.kodakdental.com

Prexion
650/212-0300
www.prexion.com

Quality Aspirators & Q-Optics
972/298-2669
www.q-optics.com

Quintessence Publishing Co., Inc.
630/736-3600
www.quintpub.com

Radman, White & Associates
972/386-7222
www.endotransitions.com

Roydent Dental Products
800/992-7767
www.roydent.com

Schick Technologies
718/937-5962
www.schicktech.com

Schwed Co., Inc.
718/441-0526
www.schwed.com

Seiler Precision Microscopes
800/489-2282
www.seilerinst.com

SS White Burs, Inc.
732/905-1100
www.sswhiteburs.com

Suni Medical Imaging, Inc.
408/227-6698
www.suni.com

Surgitel/General Scientific Corp.
800/959-0153
www.surgitel.com

SybronEndo
800/346-3636
www.sybronendo.com

TDO and EIE
858/558-3636
www.tdo4endo.com

Treloar & Heisel, Inc.
800/345-6040
www.th-online.net

Ultimate Dental—A Division of Endoco
800/388-7868
www.endoco.com

Ultradent Products, Inc.
800/552-5512
www.ultradent.com

Upholstery Packages & Services
800/947-0505
www.upholsterypackages.com

Wiley-Blackwell
877/762-2974
www.wiley.com

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

Thursday



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

Charles J. Cunningham, D.D.S., Director

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

SPECIAL EVENTS

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

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

8 a.m. – Start

Manchester Grand Hyatt Lobby
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.

FAMILY FOCUS



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.

ERGONOMIC

CONVENIENT

INTUITIVE

Tools for the Endoartist.



CALAMUS
DUAL
3D OBTURATION SYSTEM

For more information call 800-662-1202
or visit www.calamus.com

DENTSPLY
TULSA DENTAL
SPECIALTIES
Endodontics & Implants
Our Quality. Your Success.
Their Satisfaction.

DENTSPLY Tulsa Dental Specialties
DENTSPLY International, Inc.
5100 E. Skelly Drive, Suite 300
Tulsa, OK 74135
1-800-662-1202
1-800-597-2779 (fax)
www.tulsadentalspecialties.com

See Directions For Use

Rx Only

For Dental Use Only

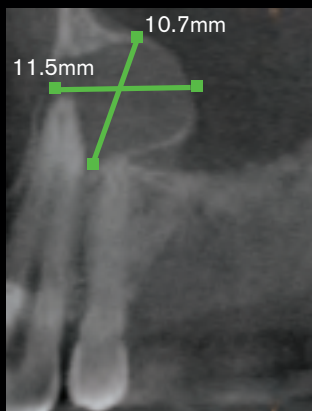
THIS PRODUCT CONTAINS DRY NATURAL RUBBER

Manufactured under U.S. patent no. 6,991,457 and other foreign patents pending. © 2009 DENTSPLY International, Inc. ADCD11/09

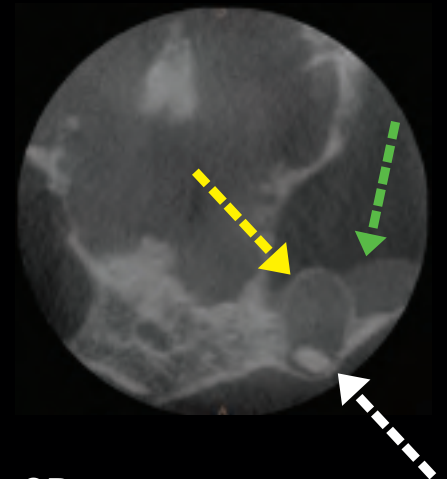
See What You've Been Missing



2D The pre-operative periapical radiograph demonstrates a corticated unilocular periradicular osteitis associated with the maxillary right cuspid.



3D Pre-operative 3D sagittal slice reveals the lesion's invasion of the maxillary antrum.



3D Pre-operative 3D axial slice showing the apex of the maxillary right cuspid (white arrow), its associated periradicular osteitis (yellow arrow) and periradicular mucositis (green arrow).

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**.

PracticeWorks

©PracticeWorks Systems, LLC, 2009.
The Kodak trademark and trade dress are used under license from Kodak.
*US Pricing Only.



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 Practice Works/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,

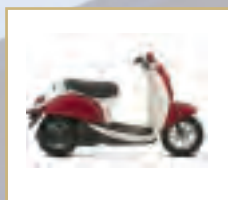


A handwritten signature in cursive script that reads "Jenny Freeland".

Jenny Freeland
AAE Alliance President
Mjfreeland@aol.com

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

Ford AB/MH

10 a.m. – noon Tour

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)

Secretary

Rebecca Funderburk (David)

Membership Chair

Margaret Wright (Ron)

Local Arrangements

Stella Okada (Geoffrey)

President-Elect

Kerstin Conn (Douglas)

Treasurer

Becky Richards (Robert)

AAAE Charter Keeper

Shelly Zucker (Kenneth)

AAE Foundation Board Representative

Kerstin Conn (Douglas)

Immediate Past President

Liza Starr (Steven)

Historian

Linda Powell (Bill)

Member-at-Large

Carol Cooke (H. Groves)

AAE Board Liaison to the AAAE

James C. Kulild, D.D.S., M.S. (Jan)

ALUMNI AND AFFILIATE FUNCTIONS

All events are at the Manchester Grand Hyatt unless otherwise noted.

Wednesday

Baylor College of Dentistry

Reception: 8:30 – midnight
Elizabeth Ballroom A

U.S. Air Force Association of Endodontists

Reception: 5 – 6 p.m.
Emma A

University of Detroit Mercy

Reception: 8:30 p.m.
Offsite

University of Michigan

Reception: 8:30 p.m.
Offsite

University of Minnesota

Reception: 5 – 6:30 p.m.
Annie A

Thursday

Albert Einstein Medical Center

Reception: 6:30 – 8 p.m.
Ford A

Arizona Endodontic Association

Reception: 5:30 – 7:30 p.m.
Betsy A

California State Association of Endodontists

Reception: 6 p.m.
Moshen A

Case Western Reserve University

Reception: 5 – 7 p.m.
Ford B

Columbia University

Reception: 6 – 8:30 p.m.
Gregory A-B

Harvard University

Dinner: 6:30 – 10 p.m.
Offsite

Loma Linda University

Reception: 6:30 – 8 p.m.
Emma A

Louisiana State University

Reception: 6 – 9 p.m.
Manchester B

Mexican Association of Endodontics

Reception: 6:30 – 8:30 p.m.
Manchester Ballroom C

Thursday continued

Michigan Association of Endodontists

Reception: 6 – 8 p.m.
Elizabeth Ballroom B

New York State Association of Endodontists

Meeting: 5 – 6 p.m.
Room 11A/SCC

New York University

Reception: 6 – 8 p.m.
Ford C

Nova Southeastern University

Reception: 8:30 – 10 p.m.
Elizabeth Ballroom H

Ohio State University

Reception: 7 – 10 p.m.
Emma B

Oregon Health & Science University

Reception: 6:30 – 8 p.m.
Molly A-B

St. Louis University

Reception: 6 – 8 p.m.
Offsite

Stony Brook University

Reception: Time TBA
Offsite

Temple University

Reception: 6 – 8 p.m.
Cunningham A

Tufts University

Reception: 6 – 8 p.m.
Elizabeth Ballroom G

U.S. Army Association of Endodontists

Reception: 5 – 6:30 p.m.
Madeline C-D

University at Buffalo

Reception: 5 – 7 p.m.
Betsy C

University of California at Los Angeles

Reception: 6 – 8 p.m.
Del Mar A-B

University of Florida

Reception: 7:30 – 9:30 p.m.
Elizabeth Ballroom C

University of Illinois

Dinner: 6 – 9 p.m.
Offsite

Thursday continued

University of Iowa

Reception: 6 – 8 p.m.
Manchester E

University of Louisville

Reception: 6 – 8 p.m.
Betsy B

University of Maryland

Reception: 6 – 8 p.m.
Manchester H

University of Missouri-Kansas City

Reception: 5:30 – 7:30 p.m.
Cunningham C

University of North Carolina and Tar Heel Endodontic Association

Meeting: 5 – 6 p.m.
Reception: 6 – 7:30 p.m.
Manchester Ballroom G

University of Pittsburgh

Reception: 6 – 8 p.m.
Madeline A

University of Southern California

Dinner: 7 – 9 p.m.
The Gallery

University of Texas at Houston

Reception: 6:30 – 8:30 p.m.
Manchester Ballroom D

University of Texas Health Science Center at San Antonio

Reception: 6:30 – 9:30 p.m.
Manchester Ballroom A

University of Washington

Reception: 6 – 8 p.m.
Emma C

Veteran Affairs Healthcare System Long Beach

Reception: 6 – 8 p.m.
Moshen B

Virginia Commonwealth University

Reception: 6:30 – 8:30 p.m.
Madeline B

West Virginia University

Reception: 6 – 8 p.m.
Cunningham B

Friday

Boston University

Reception: 6 – 8:30 p.m.
Ford ABC

Marquette University

Reception: 6 – 7 p.m.
Moshen A

University of California at San Francisco

Reception: 6 – 8 p.m.
Del Mar AB

University of Pennsylvania

Reception: 6 – 8 p.m.
Elizabeth Ballroom A

Saturday

U.S. Navy Association of Endodontists

Breakfast Meeting: 7 – 10 a.m.
Del Mar A-B

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

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

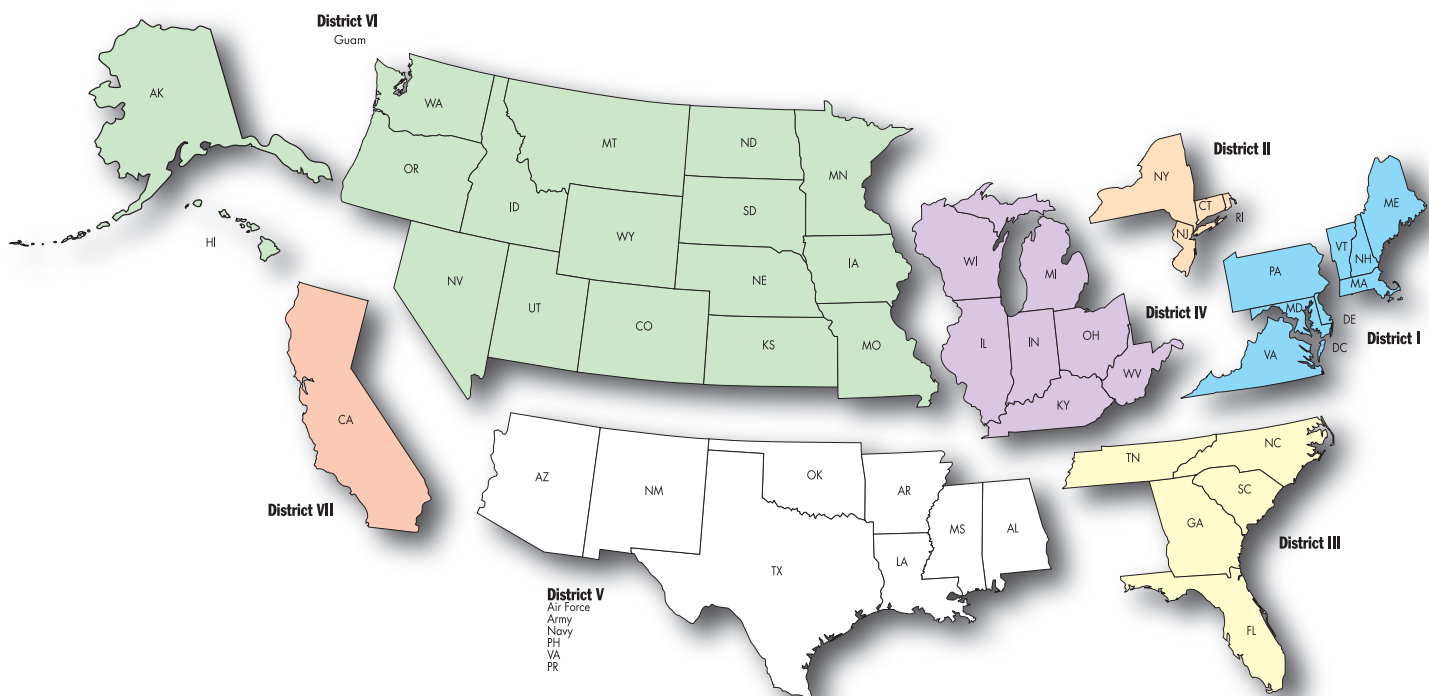
3:30 – 5 p.m.
EndoTrak – Room 11B/SCC
PBS Endo – Room 11A/SCC

Saturday

JOE Editorial Board Committee

Meeting: 7 – 10 a.m.
Cunningham A/MH

AAE Districts



GENERAL INFORMATION

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.

Partially subsidized by the AAE

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

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:

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.

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:

www.ManchesterGrand.Hyatt.com

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.

Suite 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

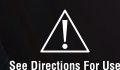
Parking

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



See Directions For Use

For Dental Use Only

Rx only

DENTSPLY Tulsa Dental Specialties
DENTSPLY International, Inc.
5100 E. Skelly Drive, Suite 300
Tulsa, OK 74135
1-800-662-1202
1-800-597-2779 (fax)
www.tulsadentalspecialties.com

DENTSPLY
TULSA DENTAL
SPECIALTIES
Endodontics & Implants
*Our Quality. Your Success.
Their Satisfaction.*

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.

© 2009 DENTSPLY International, Inc. ADPFV11/09

REGISTRATION INFORMATION

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.

Package	Early Fee (by March 10)	Standard Fee
AAE Professional	\$945	\$1,095
AAE Active 1 st Year*	\$473	\$623
AAE Student	\$200	\$350
AAE Professional Staff	\$200	\$350
AAE Alliance	\$175	\$250
Professional Guest (U.S.)	\$1,678	\$1,828
Professional Guest (Int'l)	\$1,125	\$1,275
Student Guest	\$1,125	\$1,275
Professional Staff Guest	\$1,125	\$1,275
Family/Guest	\$125	\$200

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.

REGISTRATION INFORMATION

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 312/266-7255 (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.



CONVENTION SPECIAL

MANI K-FILES 6/PK 21mm & 25mm #15-40 & Assorted REG. \$7.99 SALE \$7.99	GUTTA PERCHA POINTS 60/BOX 04 & 06 SIZES #15-40 REG. \$33.99 SALE \$27.99
RUBBER DAM CLAMPS FRANKLIN - ALL SIZES REG. \$7.99 SALE \$3.99	PARAPOST TITANIUM - ALL SIZES REG. \$185.99 SALE \$79.99
PULPIDENT ROOT CANAL SEALER REG. \$39.99 SALE \$28.99	GOLDPOST 12/PACK - ALL SIZES REG. \$12.99 SALE \$6.99
HYGIENIC NON-LATEX FLEXI DAM 6x6 10/BOX REG. \$43.00 SALE \$30.99	ENGINE REAMERS 21mm & 25mm #15-40 & Assorted REG. \$32.99 SALE \$27.99
ENDOCUE HYGIENIC REG. \$25.99 SALE \$19.99	ENGINE H-FILES 21mm & 25mm #15-40 & Assorted REG. \$12.99 SALE \$7.99
REUSABLE 0.08 DIAMONDS 10/PK - ALL SIZES REG. \$40.00 SALE \$30.00	NEIT ROTARY K-FILES 10 TAPERED 21mm & 25mm #15-40 & Assorted REG. \$47.99 SALE \$27.99
CARBIDE BURS 10/PK - ALL SIZES REG. \$17.00 SALE \$9.99	MANI PLUGGER - 25mm #15-40 6/PACK REG. \$17.99 SALE \$11.99
METAPEN REG. \$29.00 SALE \$16.99	MANI SPREADER - 25mm #15-40 6/PACK REG. \$17.99 SALE \$11.99
METABASTE REG. \$28.00 SALE \$16.99	MANI BARBED BROACHES 21mm #1-6 6/PACK REG. \$3.99 SALE \$3.99

FRANKLIN DENTAL SUPPLY, INC 1-800-972-7917
WWW.FRANKLINDENTALSUPPLY.COM
OFFER EXPIRES MAY 31, 2010

OPTIONAL TOURS

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 and select “Optional Tours” from the Quick Links menu or go directly to 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.

SAN DIEGO ATTRACTION TICKETS

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)



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)



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



Ticket Purchase Information

Online: Go to the AAE Web site at www.aae.org/annualsession and select "San Diego Attraction Tickets" from the Quick Links menu or go directly to www.pra-tours.com/aae.

Phone: 619/234-9440

On Site: A tour desk will be open on the following dates/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.

All tickets purchased in advance can be picked up on site. Tickets do not include transportation to and from the location.

San Diego Trolley Tours



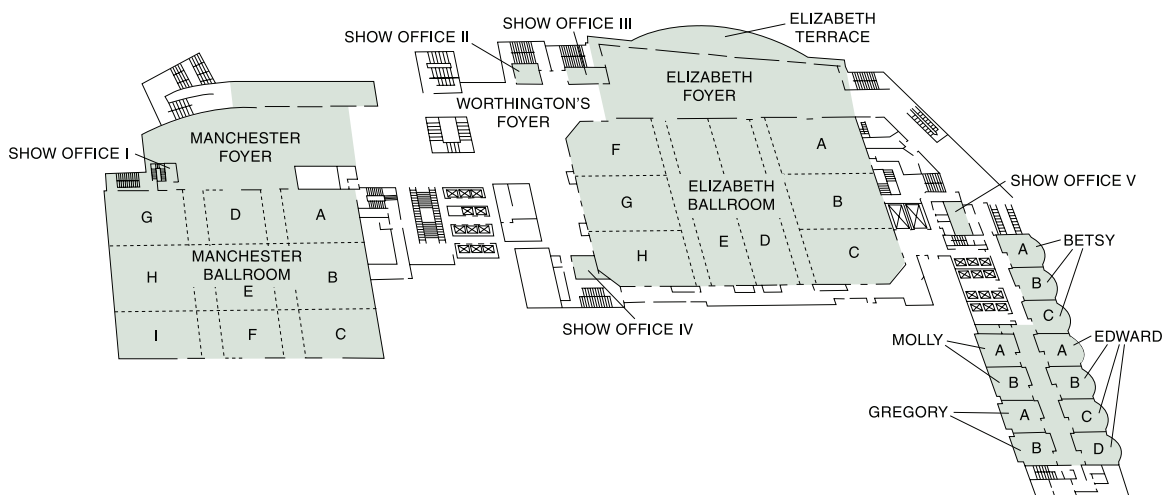
Since 1989, Old Town Trolley Tours has provided sightseeing tours highlighting the best of San Diego. Hop aboard one of our trolleys where the friendly conductors narrate the tour with a fascinating and fun mix of trivia and humorous stories.

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.

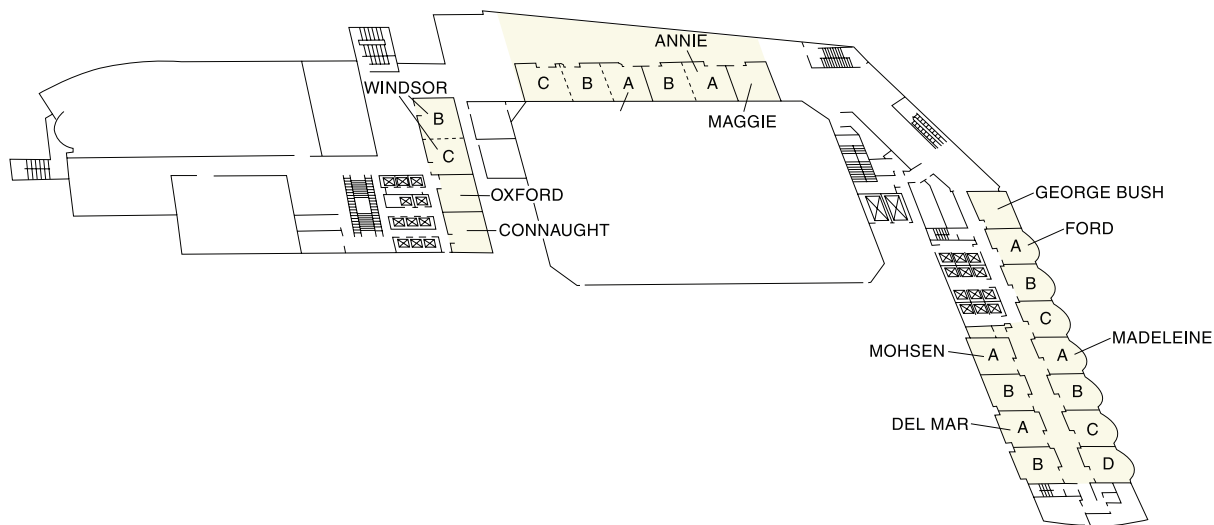
For more information on the San Diego Trolley, the tours they offer or to purchase tickets, go to www.trolleytours.com/san-diego, or call 800/868-7482 (North America) or 619/298-8687 (International). Tickets can also be purchased at the San Diego Convention Center Information Desk.

MANCHESTER GRAND HYATT FLOOR PLAN

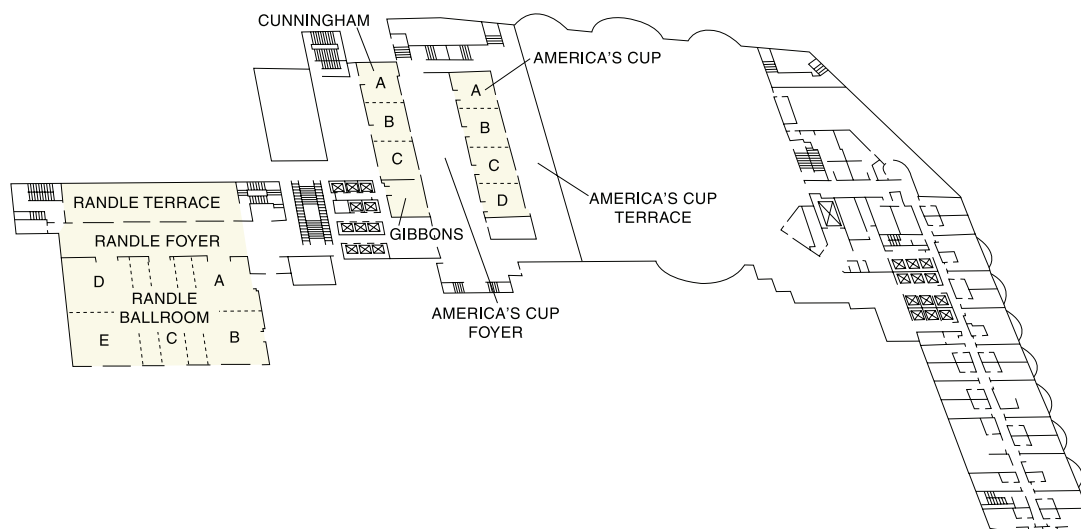
Second Level



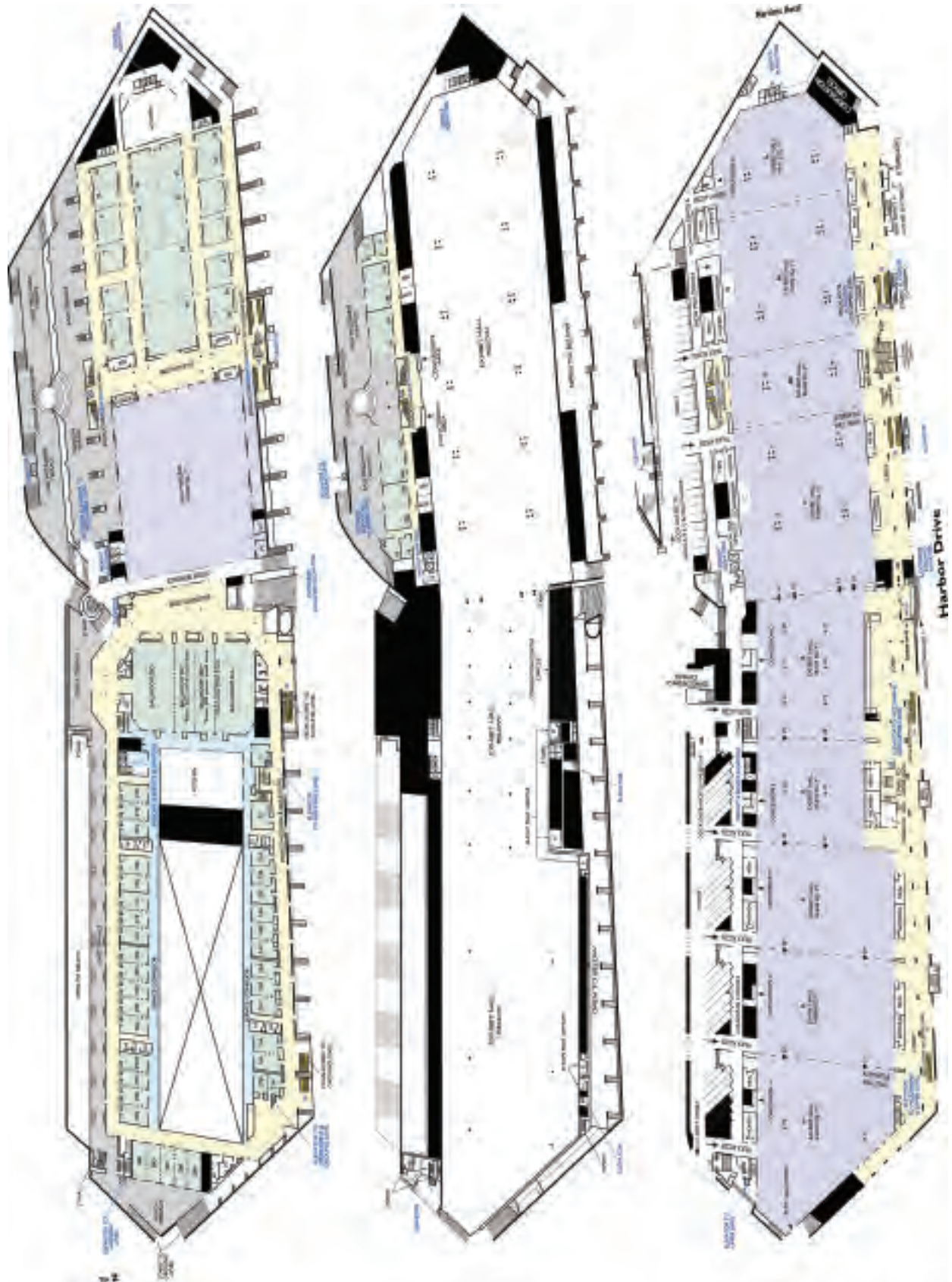
Third Level



Fourth Level



SAN DIEGO CONVENTION CENTER FLOOR PLAN



Past Presidents

*W. Clyde Davis '43-44	*George C. Hare '57-58	*Dudley H. Glick '71-72	*Herbert Schilder '85-86	Harmon R. Katz '99-00
*Ralph F. Sommer '44-45	*George G. Stewart '58-59	*I.B. Bender '72-73	Michael A. Heuer '86-87	James L. Gutmann '00-01
*Robert G. Kesel '45-46	*J. Henry Kaiser '59-60	*Charles A. Scott Jr. '73-74	Charles J. Cunningham '87-88	Jeffrey W. Hutter '01-02
*E.G. Van Valey '46-47	*Paul P. Sherwood '60-61	*Alfred L. Frank '74-75	Joseph D. Maggio '88-89	Samuel O. Dorn '02-03
*Maynard K. Hine '47-48	*Glenn R. Brooks '61-62	Robert A. Uchin '75-76	Gerald C. Dietz Sr. '89-90	Mahmoud Torabinejad '03-04
*Louis I. Grossman '48-49	*Vincent B. Milas '62-63	*Frank B. Trice '76-77	James C. McGraw '90-91	Sandra Madison '04-05
*Elmer A. Jasper '49-50	James H. Sherard Jr. '63-64	George A. Zurkow '77-78	Joseph I. Tenca '91-92	Marc Balson '05-06
*Raymond L. Girardot '50-51	*Jacob B. Freedland '64-65	*Harry Blechman '78-79	Stuart B. Fountain '92-93	John S. Olmsted '06-07
*George G. Sharp '51-52	*Henry S. Schmidt '65-66	Paul E. Zeigler '79-80	Eric J. Hovland '93-94	Shepard S. Goldstein '07-08
*F. Darl Ostrander '52-53	John I. Ingle '66-67	*Edward M. Osetek '80-81	*Richard C. Burns '94-95	Louis E. Rossman '08-09
*Laurence A. Lucas '53-54	Edwin C. Van Valey '67-68	Henry J. Van Hassel '81-82	*Philip W. Cohen '95-96	
*N. Weir Burkman '54-55	*Samuel S. Patterson '68-69	Noah Chivian '82-83	Jerome V. Pisano '96-97	
*Harry J. Healey '55-56	*Warren J. Hedman '69-70	Donald E. Arens '83-84	Denis E. Simon III '97-98	
*John R. Pear '56-57	*John F. Bucher '70-71	Stephen F. Schwartz '84-85	Carl W. Newton '98-99	

Past Award Winners

Edgar D. Coolidge Award

*Edgar D. Coolidge '69
 *Harry B. Johnston '70
 *Henry A. Bartels '71
 *Bertram L. Wolfsohn '74
 *Vincent B. Milas '75
 Worth B. Gregory Jr. '78
 *Jacob B. Freedland '80
 *Alfred L. Frank '81
 George G. Stewart '82
 *F. Darl Ostrander '83
 *Maynard K. Hine '83
 *George C. Hare '84
 *Irving J. Naidorf '85
 *Harry Blechman '86
 *I.B. Bender '87
 *Dudley H. Glick '88
 *Samuel S. Patterson '89
 Robert A. Uchin '90
 Michael A. Heuer '91
 *Edward M. Osetek '92
 Harold Gerstein '93
 Henry J. Van Hassel '93
 Donald E. Arens '94
 *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 Olier '08
 Jeffrey W. Hutter '09

Louis I. Grossman Award

*Louis I. Grossman '73
 *Birger Nygaard-Ostby '76
 *I.B. Bender '78
 *Samuel Seltzer '80
 *Harold R. Stanley '81
 *Kaare Langeland '82
 Henry J. Van Hassel '84
 *Melvin Goldman '89
 Syngcuk Kim '90
 Calvin D. Torneck '91
 Henry O. Trowbridge '92
 Mahmoud Torabinejad '93
 *Herbert Schilder '96
 Geoffrey Heithersay '00
 Richard E. Walton '01
 Martin Trope '02
 Franklin S. Weine '03
 Larz S.W. Spångberg '04
 James. H. Simon '05
 Leif Tronstad '06
 Kenneth M. Hargreaves '07
 Shimon Friedman '08
 Al Reader '09

I.B. Bender Lifetime Educator Award

Gerald W. Harrington '01
 *Raymond G. Luebke '02
 *F. James Marshall '03
 Leif K. Bakland '04
 William J. Meyers '05
 Thomas P. Mullaney '06
 Nijole A. Remeikis '07
 Arne M. Bjørndal '08
 Gary R. Hartwell '09

Ralph F. Sommer Award

Calvin D. Torneck '84
 *Alfred L. Frank '85
 Mahmoud Torabinejad '86
 John I. Ingle '87
 Leif Tronstad '90
 Jens O. Andreassen '91
 *I.B. Bender '93
 *Samuel Seltzer '93
 Goran Sundqvist '94
 Gunnar Bergenholtz '96
 *Miomir Cvek '03
 Henry J. Van Hassel '05
 Harmeet D. Walia '05
 Syngcuk Kim '06
 Samuel Kakehashi '09

Edward M. Osetek Educator Award

*Gordon D. Mattison '95
 Eric M. Rivera '96
 Asgeir Sigurdsson '98
 David E. Witherspoon '99
 Roberta Pileggi '00
 André K. Mickel '01
 Donna Mattscheck '02
 Shahrokh Shabahang '03
 Stephen J. Clark '04
 Karl Keiser '04
 Alexandre A.P. Fleury '05
 Andris Jaunberzins '06
 John M. Nusstein '06
 Jarshen Lin '07
 Anne E. Williamson '08

Honorary Members

*Edgar D. Coolidge '48
 *W. Clyde Davis '48
 *Bernhard Gottlieb '48
 *Edward S. Hatton '49
 *Walter Hess '49
 *Hermann Prinz '49
 *Francisco Pucci '49
 *Sir E. Wilfred Fish '56
 *Birger Nygaard-Ostby '58
 *Mary Crowley '66
 *Ralph F. Sommer '67
 *Harold R. Stanley '68
 *Maynard K. Hine '69
 *Maury Massler '71
 *Louis I. Grossman '73
 *Oscar A. Maisto '79
 Henry O. Trowbridge '86
 David H. Pashley '92
 Irma S. Kudo '94
 Frank N. Lentine '94
 Michel Maillefer '94
 Margaret R. Byers '99
 Jens O. Andreassen '01
 Shiro Kudo '02
 Ivar A. Mjör '04
 Rafael Miñana '06
 Jill E. Cochran '09

Spirit of Service Lifetime Dental Community Volunteer Award

George T. Goodis '07
 William D. Powell '08
 John D. Hartness '09

Spirit of Service New Practitioner Dental Community Volunteer Award

Jessica L. Barr '07
 Judy D. McIntyre '08
 Robert A. Goldberg '09

President's Award

Peter A. Paesani '97
 Bruce H. Seidberg '02
 Wm. Ben Johnson '04
 Darrell W. Zenk '05
 Worth B. Gregory Jr. '07
 Terryl A. Propper '09

**Deceased*

A

Allam, Charbel R. 62
 Andrews Jr., Lawrence F. 49
 Arens, Donald E. 53
 Austin, Michael S. 23, 26

B

Bahcall, James K. 44
 Bakland, Leif K. 30
 Banta, Lois J. 23
 Barnett, Frederic 37, 59
 Basrani, Bettina R. 19
 Baumgartner, J. Craig 44
 Best, Debbie 54
 Bogen, George 25
 Bruder III, George A. 55
 Buchanan, L. Stephen 17, 42
 Burrus, April 39

C

Canham, Leslie 32
 Capista, Joseph T. 63
 Caruso, Timothy 32, 36
 Castellucci, Arnaldo 53
 Chivian, Noah 53
 Clark, Glenn T. 21
 Cochet, Jean-Yves G. 30, 53
 Cohen, Stephen 20
 Coil, Jeffrey M. 57
 Cotti, Elisabetta 16

D

Dorst, Jackie 31
 Douglas II, Earl M. 22
 Dovgan, Joseph S. 59
 Dumas, Christine 58

E

Eleazer, Paul D. 58
 Endal, Unni 66

F

Facer, S. Ryan 35
 Fakhry, Ali 50
 Fayad, Mohamed I. 56
 Fleury, Alexandre A.P. 22, 28
 Floratos, Spyros 65
 Forrest, Linda K. 49
 Friedman, Shimon 38

G

Geisler, Todd M. 20
 Gibbs, Jennifer L. 21
 Goerig, Albert C. 39, 58
 Goldberg, Fernando 48
 Goldberg, Robert A. 25
 Goodacre, Charles J. 44, 55
 Gordon, Sharon M. 19
 Guess, Garrett M. 27, 32, 40
 Gutmann, James L. 30, 51

H

Haapasalo, Markus 26
 Hamilton, Kathleen E. 22
 Hargreaves, Kenneth M. . . . 19, 55
 Hartwell, Gary R. 25
 Hashem, Ahmed A. 29
 Helfer, Allen R. 47
 Hellstein, John W. 57
 Herbranson, Eric J. 64
 Hochman, Mark 47
 Hung, Yuan-Lung 29

I

Ingle, John I. 41

J

Jafarzadeh Bakooei, Hamid . . . 28
 Johnson, Lynn A. 65
 Johnson, Wm. Ben 18, 22, 28

K

Kan, Joseph Y. 36
 Karabucak, Bekir 50
 Kasem, Raed S. 40
 Kelliny, David W. 66
 Khayat, Bertrand G. 46
 Kim, Syngcuk 40
 Kratchman, Samuel I. 40

L

Law, Alan S. 20
 Lemon, Ronald R. 25
 Levin, Linda G. 47, 49
 Levin, Martin D. 56
 Lin, Louis M. 34
 Livesay, Kim C. 25
 Lloyd, Adam 24
 Lozada, Jaime L. 32
 Lynn, Evan A. 42

M

Madras, Jonathan J. 43
 Mancia, Paul R. 59
 Marek, Cindy L. 39, 45
 Marmo, Michael S. 20
 Messer, Harold H. 30
 Metzger, Zvi 21
 Morton, Gerry 49
 Mounce, Richard E. 22, 28
 Munce, C. John 18
 Murphy, Susan 64

N

Newton, Carl W. 53
 Nor, Jacques E. 18

O

Odom, Mark A. 49
 O'Neill, Paula 62

P

Pannkuk, Terrell F. 20, 59
 Paque, Frank 63
 Peck, Jane 49
 Pecora, Gabriele 54
 Peters, Christine I. 33
 Peters, Ove A. 33
 Pileggi, Roberta 41
 Powell, William D. 31
 Propper, Terryl A. 53

Q

Quan, Lester J. 51

R

Radman, W. Paul 41
 Roman, Kathleen M. 58
 Rosenberg, Paul A. 45
 Rubinstein, Richard A. 16
 Ruddle, Clifford J. 25, 48

S

Salehrabi, Robert 43
 Saunders, Elizabeth M. 60
 Sayin, Taner C. 60
 Saylor, Robert G. 48
 Sedgley, Christine M. 22
 Senia, E. Steve 17
 Shemesh, Hagay 34
 Shi, Wenyan 38
 Shulman, Barnet B. 53
 Simon III, Denis E. 18, 53
 Simons, Wyatt D. 53
 Small, Joel C. 22
 Soukos, Nikolaos S. 35
 Spolnik, Kenneth J. 53

T

Tay, Franklin R. 17
 Temple, Timothy J. 52, 59
 Torabinejad, Mahmoud 27, 37, 52
 Trope, Martin 21

V

van der Sluis, Lucas W.M. 33
 Velvart, Peter 40

W

Walton, Richard E. 21, 37
 Welters, Debra L. 23, 26
 Wenckus, Christopher S. 52
 West, John D. 46
 White, Keith D. 41
 White, Shane N. 27
 Whitley, Michele M. 23, 26
 Wildey, William L. 22, 28
 Wood, Patrick J. 22
 Wu, Min-Kai 61

SPEAKER AND MODERATOR DISCLOSURE STATEMENTS

All participants must disclose to the program audience any proprietary, financial or other personal interest of any nature or kind, in any product, service, source and/or company, or in any firm beneficially associated therewith that will be discussed or considered during their presentation. The AAE does not view the existence of these interests or uses as implying bias or decreasing the value to participants. The AAE, along with ADA CERP, feels that this disclosure is important for the participants to form their own judgment about each presentation.

The following have proprietary, financial and/or personal interests to disclose:

Bahcall, James K. – Stock Shareholder: Plastic Dental Corporation
Best, Debbie – Consultant and Honorarium: Consulting Network
Buchanan, L. Stephen – Financial/Material Support: SybronEndo
Burrus, April – Financial/Material Support: DOCS Education
Caruso, Timothy – Consultant: Brewer 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: Brewer Company, RGP Dental, Posture Perfect Solutions, Dental Ez Group, Pelton Crane
Douglas II, Earl M. – Consultant: Phase II Associates
Fleury, Alexandre A.P. – Consultant and Honorarium: Real World Endodontics
Goerig, Albert C. – Stock Shareholder: Endo Practice Mastery
Gutmann, James L. – Consultant: DENTSPLY Tulsa Dental Specialties
Haapasalo, Markus – Grants/Research Support: DENTSPLY, Vista Dental, Sybron; Consultant: 3M, Dentatek, Novalar
Hamilton, Kathleen E. – Financial/Material Support: Phase II Associates
Helfer, Allen R. – Consultant: Milestone Scientific
Herbranson, Eric J. – Consultant: Global Surgical Corp; Stock Shareholder: Brown and Herbranson Imaging
Hochman, Mark – Consultant, Financial/Material Support, Stock Shareholder and Honorarium: Milestone Scientific, Inc.
Johnson, Wm. Ben – Consultant: DENTSPLY International
Khayat, Bertrand G. – Consultant: Acteon Group
Kim, Syngcuk – Consultant: Obtura/Spartan
Kratchman, Samuel I. – Honorarium: Obtura/Spartan; Consultant: Guidance Endodontics
Levin, Martin D. – Consultant: PracticeWorks LLC
Livesay, Kim C. – Financial/Material Support and Stock Shareholder: DENTSPLY Tulsa Dental Specialties
Lynn, Evan A. – Honorarium: DENTSPLY
Metzger, Zvi – Consultant and Financial/Material Support: Apexum Ltd.
Morton, Gerry – Stock Shareholder: EnergyFirst
Mounce, Richard E. – Honorarium: SybronEndo
Munce, C. John – Stock Shareholder: CJM Engineering, Inc.
Odom, Mark A. – Consultant: DENTSPLY Tulsa Dental Specialties
Pecora, Gabriele – Consultant: GHIMAS S.p.A.
Radman, W. Paul – Stock Shareholder: Radman, White and Associates, Inc.
Rubinstein, Richard A. – Consultant: DENTSPLY Tulsa Dental Specialties, JedMed Instrument Company
Ruddle, Clifford J. – Consultant: DENTSPLY International
Senia, E. Steve – Consultant, Financial/Material Support and Honorarium: Discus Dental, Inc.
Shi, Wenyan – Grants/Research Support: NIH, GSK, J&J, C3 Jian; Consultant: GSK, J&J, C3 Jian, Colgate; Stock Shareholder: C3 Jian; Honorarium: GSK, J&J, C3 Jian, Colgate
Small, Joel C. – Stock Shareholder and Financial/Material Support: Phase II Associates
Trope, Martin – Consultant: SybronEndo
West, John D. – Consultant: DENTSPLY Tulsa Dental Specialties; Stock Shareholder and Co-Developer: ProTaper and Calamus Endodontic Technologies
Wilkey, William L. – Consultant: Discus Dental, Inc.

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

Adams, Benjamin H.	Coil, Jeffrey M.	Jafarzadeh Bakooei, Hamid	Oglesby, Samuel W.	Spolnik, Kenneth J.
Allam, Charbel R.	Comer, Toby L.	Johnson, Bradford R.	Olmsted, John S.	Suanico, Dean P.
Aminoshariae, Anita	Corti, Elisabetta	Johnson, Lynn A.	Otto, Melinda S.	Sung, Jay J.
Andrews Jr., Lawrence F.	Davenport, Lynda	Justman, Bruce C.	Pannkuk, Terrell F.	Swager, Steven T.
Angulo, Susan I.	Davis, Stephen B.	Kallman, Steven	Paque, Frank	Tay, Franklin R.
Arens, Donald E.	Deardorf, Kevin A.	Kan, Joseph	Peck, Jane	Taylor, Patrick E.
Austin, Michael S.	Dodson, Zachary	Karabucak, Bekir	Peters, Christine I.	Teixeira, Fabricio B.
Bahcall, James K.	Dorst, Jackie	Keiser, Karl	Peters, Ove A.	Temple, Timothy J.
Bakland, Leif K.	Eleazer, Paul D.	Kelliny, David W.	Pileggi, Roberta	Tittle, Kenneth W.
Baldassari-Cruz, Lynne A.	Facer, S. Ryan	Krell, Keith V.	Potter, Karen S.	Torabinejad, Mahmoud
Banta, Lois J.	Fakhry, Ali	Law, Alan S.	Powell, William D.	Trabert, Kenneth C.
Barnett, Frederic	Fayad, Mohamed I.	Le Vine, Lawrence M.	Propper, Terryl A.	Tran, Anthony T.
Basrani, Bettina R.	Floratos, Spyros	Le, Khang T.	Quan, Lester J.	Tsutsui, Fred S.
Bassali, Emad	Forrest, Linda K.	Lemon, Ronald R.	Regan, John D.	Vail, Mychel M.
Batniji, Samir K.	Fouad, Ashraf F.	Levin, Linda G.	Roges, Rafael A.	van der Sluis, Lucas W.M.
Baumgartner, J. Craig	Francavilla, Deborah A.	Levy, Thomas A.	Roman, Kathleen M.	Varella, Claudio H.
Berdan, Yaara Y.	Friedman, Shimon	Lin, Louis M.	Rosenberg, Paul A.	Velvart, Peter
Berman, Louis H.	Geisler, Todd M.	Lloyd, Adam	Royal, Matthew J.	Walton, Richard E.
Bhagat, Rajiv	Gibbs, Jennifer L.	Madras, Jonathan J.	Sadeghein, Ahmad	Wang, Leslie L.
Bogen, George	Gluskin, Alan H.	Mancia, Paul R.	Salehrabi, Robert	Welters, Debra L.
Botero, Tatiana M.	Goddard, Thomas L.	Marek, Cindy L.	Saunders, Elizabeth M.	Wenckus, Christopher S.
Braud Jr., John P.	Goldberg, Fernando	Marmo, Michael S.	Sayin, Taner C.	White, Keith D.
Bruder III, George A.	Gomez, Manuel R.	Matt, Gary D.	Saylor, Robert G.	White, Shane N.
Brueckner, Drew R.	Goodacre, Charles J.	Mattscheck, Donna J.	Schechter, Daniel S.	Williamson, Anne E.
Campanelli, Chad A.	Gordon, Sharon M.	McClanahan, Scott B.	Schwarzach, Louis E.	Witherspoon, David E.
Cancellier, Peter D.	Guess, Garrett M.	McIntyre, Judy D.	Schweitzer, Jordan L.	Wittenauer, Richard C.
Canham, Leslie	Hajdik, Bradley H.	Messer, Harold H.	Sedgley, Christine M.	Wolcott, James F.
Capista, Joseph J.	Handysides, Robert A.	Murphy, Susan	Sharma-Chand, Priya	Wong, Ralan D.
Cardon, Jared W.	Hargreaves, Kenneth M.	Namerow, Kenneth N.	Shemesh, Hagay	Wood, Patrick J.
Castelluci, Arnaldo	Hashem, Ahmed A.	Nesari, Royeen	Shimizu, Tota	Wu, Min-Kai
Chivian, Noah	Hatton, John F.	Newton, Carl W.	Simon, Daniel J.	Zucker, Kenneth J.
Chu, Amber T.	Hellstein, John W.	Niazi-Sharaki, Arash	Simon III, Denis E.	
Chugal, Nadia	Hoen, Michael M.	Noblett, W. Craig	Simon, James H.	
Clark, Glenn T.	Holland, Graham R.	Nor, Jacques E.	Simons, Wyatt D.	
Cochet, Jean-Yves G.	Hung, Yuan-Lung	Nusstein, John M.	Sorensen, Howard J.	
Cohen, Stephen	Ingle, John I.	O'Dell, Josanne M.	Soukos, Nikolaos S.	



AMERICAN ASSOCIATION OF ENDODONTISTS

211 E. Chicago Ave., Suite 1100, Chicago, IL 60611-2691
Phone: 800/872-3636 (North America) or 312/266-7255 (International)
Fax: 866/451-9020 (North America) or 312/266-9867 (International)
Web site: www.aae.org/annualsession
E-mail: meetings@aae.org

AAE '10

ANNUAL SESSION

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

REGISTRATION FORM

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

AAE ID#

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)

Check Appropriate Package	Early (by March 10)	Standard	Amount
<input type="checkbox"/> AAE Professional	\$945	\$1,095	_____
<input type="checkbox"/> AAE Active 1 st Year	\$473	\$623	_____
<input type="checkbox"/> AAE Student	\$200	\$350	_____
<input type="checkbox"/> AAE Professional Staff	\$200	\$350	_____
<input type="checkbox"/> AAE Alliance	\$175	\$250	_____
<input type="checkbox"/> Professional Guest (U.S.)	\$1,678	\$1,828	_____
<input type="checkbox"/> Professional Guest (Int'l)	\$1,125	\$1,275	_____
<input type="checkbox"/> Student Guest	\$1,125	\$1,275	_____
<input type="checkbox"/> Professional Staff Guest	\$1,125	\$1,275	_____
<input type="checkbox"/> Family/Guest	\$125	\$200	_____

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

Wednesday

<input type="checkbox"/> Endodontic Microsurgery	\$800	\$850	_____
<input type="checkbox"/> Endodontic Revascularization Technique	\$700	\$750	_____

Thursday

<input type="checkbox"/> Fitness and Hand Care	\$25	\$35	_____
<input type="checkbox"/> Cleaning and Shaping	\$400	\$450	_____
<input type="checkbox"/> Demystifying Digital Radiography	\$25	\$35	_____

Friday

<input type="checkbox"/> CPR and Basic Life Support (a.m.)	\$60	\$70	_____
<input type="checkbox"/> Integration of Implants in Endodontics	\$800	\$850	_____
<input type="checkbox"/> CPR and Basic Life Support (p.m.)	\$60	\$70	_____

Saturday

<input type="checkbox"/> Retreatment	\$800	\$850	_____
--------------------------------------	-------	-------	-------

Subtotal 1 \$ _____

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

Check Appropriate Package	Pre-Meeting Discount	Amount
<input type="checkbox"/> Unlimited Online Access	\$199	_____
<input type="checkbox"/> Unlimited Online Access and CD Archive	\$249	_____

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

	Qty.	Early (by March 10)	Standard	Amount
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	_____

Subtotal 2 \$ _____

Commemorative Shirt (Indicate quantity after each size)

Men's	<input type="checkbox"/> S	<input type="checkbox"/> M	<input type="checkbox"/> L	<input type="checkbox"/> XL	<input type="checkbox"/> XXL	X \$50 each
Women's	<input type="checkbox"/> S	<input type="checkbox"/> M	<input type="checkbox"/> L	<input type="checkbox"/> XL		X \$50 each

Subtotal 3 \$ _____

TOTAL ENCLOSED

(Please total amounts in Subtotals 1, 2 and 3)

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



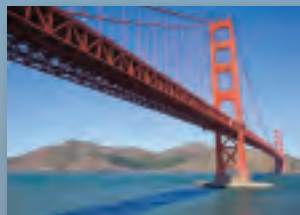
2015

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



2016

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





INNOVATIVE AND EXCITING, FOR YOU!

Join us for an experience that isn't available anywhere else!

- 4 Full Days of Value ■
- Master Clinician Series Featuring Live Surgery Demos ■
- Health and Entertainment Activities ■
- Access to Care Project ■

Register today

www.aae.org/annualsession



AMERICAN ASSOCIATION OF ENDODONTISTS

211 E. Chicago Ave., Suite 1100, Chicago, IL 60611-2691

Phone: 800/872-3636 (North America) or 312/266-7255 (International)

Fax: 866/451-9020 (North America) or 312/266-9867 (International)

E-mail: info@aae.org

Web site: www.aae.org