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AMERICAN ASSOCIATION OF ENDOdontISTS

2004 ANNUAL SESSION

May 5-8
Anaheim, California

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Dear Colleagues,

On behalf of the Board of Directors and the Annual Session Committee, I would like to welcome you to southern California and the 2004 Annual Session themed *Pathways to Success*. This year, as always, you will enjoy a large variety of educational opportunities providing insight into clinical, scientific and technological aspects of endodontics. Whether you attend a demonstration, all-day workshop or peer-to-peer discussion, leading experts will address issues that are key to our continued success. This year’s schedule ensures that the AAE maintains its reputation as a leader in endodontic education.

You will see continued enhancements to the overall Annual Session program. Simultaneous translation from English to Spanish, Japanese and Portuguese is available for our international members and guests at the Pre-Session Symposium and some selected educational sessions. Thirty-minute networking breaks are woven into the program to allow you time to interact with your peers or to visit an exhibit hall brimming with endodontic products and service vendors.

Our meeting would not be complete without the many special events that take place each day. If you have not done so in the past, be sure to attend a luncheon, reception or take any number of tours that showcase the best of Orange County. Festivities will come to a close at the President’s Dinner, for which I extend an invitation to all.

Of course, this meeting is only possible due to the efforts of the Annual Session team led by Dr. Keith V. Krell. The 2004 Annual Session Committee, AAE staff and many more volunteers who were invaluable in creating and implementing the educational program, special events and other activities.

I believe that this meeting will surpass all of your expectations while providing the best in endodontic continuing education opportunities. Please enjoy yourselves during your stay in Anaheim!

Sincerely,

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Photos and study courtesy of Drs. J. Jantarat, K. Yanpiset and C. Hariniratisa.
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Unless otherwise noted, the following activities will be conducted at the Anaheim Convention Center. Please refer to the Educational Sessions portion of this program for session room assignments. All optional tours and activities depart from the front entrance of the Hilton Anaheim.

### Tuesday, May 4
3 - 8 P.M.  
Registration and Information  
Hall A Lobby

### Wednesday, May 5
7 A.M. - 8 P.M.  
Registration and Information  
Hall A Lobby
8 A.M. - 5 P.M.  
Pre-Session Symposium  
Ballroom, Level 3
11:30 A.M. - 4:30 P.M.  
Orange County Shopping Shuttle  
(Optional Tour)
Noon - 4:30 P.M.  
Mission San Juan Capistrano and California's First Neighborhood  
(Optional Tour)
6:30 - 8 P.M.  
Welcome Reception  
Hilton - Sunset Deck, 5th floor

### Thursday, May 6
7 A.M. - 6 P.M.  
Registration and Information  
Hall A Lobby
8 - 10 A.M.  
Opening Session Breakfast  
Ballroom, Level 3
10 - 11 A.M.  
District Caucuses  
I - Room 303 A  
II - Room 203 B  
III - Room 205  
IV - Room 206  
V - Room 207 A/B  
VI - Room 207 C/D
9 A.M. - 5 P.M.  
Universal Studios and City Walk  
(Optional Tour)
10 A.M. - 6 P.M.  
Exhibits Open  
Hall A
10:30 A.M. - Noon  
Oral Research Presentations  
Rooms 201 A/B and 201 C/D
10:30 A.M. - 3:30 P.M.  
Laguna Beach  
(Optional Tour)
11 A.M. - Noon  
Affiliate Leadership Meeting  
Room 303 A
11 A.M. - 5 P.M.  
J. Paul Getty Museum and Lunch  
(Optional Tour)
Noon - 1:30 P.M.  
Louis I. Grossman Luncheon  
Room 210
Noon - 4 P.M.  
Sailing Charter on the Curlew  
(Optional Tour—CANCELED)
1:30 - 3 P.M.  
Educational Sessions  
See page 21 for details
Oral Research Presentations  
Rooms 201 A/B and 201 C/D
3 - 3:30 P.M.  
Networking Break  
Hall A
3:30 - 5 P.M.  
Educational Sessions  
See page 23 for details
Oral Research Presentations  
Rooms 201 A/B and 201 C/D
5 - 6 P.M.  
Exhibit Hall Happy Hour and Foundation Live Auction  
Hall A
6 P.M.  
Anaheim Angels Baseball Game  
(Optional Activity)
Friday, May 7

6:30 A.M.  Fun Run  
   Hilton – Front Entrance

7 - 8 A.M.  Continental Breakfast  
   Hall A Lobby

7 A.M. - 5 P.M.  Registration and Information  
   Hall A Lobby

8 - 9:30 A.M.  Educational Sessions  
   See page 26 for details

   Oral Research Presentations  
   Rooms 201 A/B and 201 C/D

8 - 11:30 A.M.  Poster Research Presentations and Table Clinics  
   Hall A

8 A.M. - 5 P.M.  Exhibits Open  
   Hall A

   Hands-On Workshop: Endodontic Microsurgery  
   Room 303 C/D

8:30 - 9:30 A.M.  Past Presidents Breakfast  
   Hilton – La Jolla

9:30 - 10 A.M.  Networking Break  
   Hall A

10 - 11:30 A.M.  Educational Sessions  
   See page 32 for details

   Oral Research Presentations  
   Rooms 201 A/B and 201 C/D

10 A.M. - 4 P.M.  J. Paul Getty Museum and Lunch  
   (Optional Tour)

   Beverly Hills Shopping Extravaganza and Lunch at The Ivy  
   (Optional Tour)

10:30 A.M. - 3:30 P.M.  Laguna Beach  
   (Optional Tour – CANCELED)

11 A.M. - 4 P.M.  Behind the Scenes Visit to the Queen Mary  
   (Optional Tour)

11:30 A.M. - 1:15 P.M.  Edgar D. Coolidge Luncheon  
   Ballroom, Level 3

1:30 - 3 P.M.  Educational Sessions  
   See page 35 for details

   Oral Research Presentations  
   Rooms 201 A/B and 201 C/D

3 - 3:30 P.M.  Networking Break  
   Hall A

3:30 - 5 P.M.  Educational Sessions  
   See page 37 for details

   Oral Research Presentations  
   Room 201 A/B

9 P.M. - MIDNIGHT  Celebrate Anaheim!  
   House of Blues/Downtown Disney®

Saturday, May 8

7:30 - 8:30 A.M.  Continental Breakfast  
   Hall A Lobby

7:30 A.M. - 5 P.M.  Registration and Information  
   Hall A Lobby

8 - 11:30 A.M.  Poster Research Presentations and Table Clinics  
   Hall A

8 A.M. - 1 P.M.  Exhibits Open  
   Hall A

8 A.M. - 5 P.M.  Hands-On Workshop: Endodontic Retreatment  
   Room 303 C/D

8:30 - 10 A.M.  AAE General Assembly  
   Room 303 A/B

9 A.M. - 1:30 P.M.  Mission San Juan Capistrano and California's First Neighborhood  
   (Optional Tour)

10 - 11:30 A.M.  Educational Sessions  
   See page 42 for details

11:30 A.M. - 1 P.M.  Colleagues Luncheon  
   Ballroom, Level 3

1:30 - 3 P.M.  Educational Sessions  
   See page 44 for details

3:30 - 5 P.M.  Educational Sessions  
   See page 45 for details

7 - 8 P.M.  Reception  
   Hilton – Pacific Ballroom Foyer

8 P.M. - MIDNIGHT  President's Dinner  
   Hilton – Pacific Ballroom
Auxiliary Program

While Auxiliary members and guests are welcome to attend any educational session, the following sessions have been designed with office staff in mind. Please see the educational section of this program for session synopses and room assignments. Auxiliary sessions are denoted with an “A” before the session number, with the exception of S-310, which is intended for professionals and staff alike.

Thursday, May 6
1:30 - 3 P.M.  A-101: Proven Enhancement via UCR and Insurance Management
A-102: Herbal Products and Patients’ Medications: Are They Concerns for Dentistry?

3:30 - 5 P.M.  Continuation of A-101 and A-102

Friday, May 7
8 - 9:30 A.M.  A-201: The Ergonomics of a Digital Endodontic Office
A-202: Dental Radiographic Pitfalls and How to Avoid Them

10 - 11:30 A.M.  Continuation of A-201 and A-202

1:30 - 3 P.M.  A-211: Patients Will Love You if You Can Solve Their Pathologic Mysteries
A-212: HIPAA Basics and New CDC Infection Control Guidelines

3:30 - 5 P.M.  Continuation of A-211 and A-212

Saturday, May 8
A-308: Third-Party Reimbursement Issues and CDT-4 Insurance Coding Workshop
S-310: Bring Back the Fun and Profitability in Practice

3:30 - 5 P.M.  Continuation of S-310
FOUNDATION LIVE AUCTION
5 - 6 p.m., Thursday, May 6
Bidding opens at 5:30 p.m.
ANAHEIM CONVENTION CENTER HALL A

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**EIE2.com**
Carr II Photo Adapter

**SybronEndo**
Elements Diagnostic Unit; Nouvag Motor; 100 packs of K3 rotary files

**EIE2.com**
Carr II Photo Adapter

**Obtura/Spartan**
KIS microsurgical hand instruments; Spartan Piezo electric ultrasonic; KIS 1-6, CPR 1-5 and BUC 1-3A Ultrasonic Tips

**Seiler Precision Microscopes**
Seiler Model 202 dental operating microscope with video camera

**Schick Technologies, Inc.**
Single User CDR Wireless Digital X-ray System

**Seiler Model 202**
Seiler Model 202 dental operating microscope with video camera

**DogBreath Software, Inc.**
TDO Imaging and Express Modules

**SybronEndo**
Elements Diagnostic Unit; Nouvag Motor; 100 packs of K3 rotary files

Held during the Exhibit Hall Happy Hour, where you can relax with a beverage and light snack.

See a Foundation representative at the AAE Oasis in Hall A for more information.

All proceeds benefit the AAE Foundation
AAE Oasis
This all-purpose membership services area located in the exhibit hall is your one-stop shop for all things AAE. Pick up your Annual Session shirt or peruse a variety of newly-released products and publications, including special sale-priced items. Speak with AAE staff to update your contact information, obtain a membership application or ask questions regarding membership benefits. Representatives will be available to accept pledges to the AAE Foundation and to explain the process of becoming a Diplomate through the American Board of Endodontics. This is also the place to review job postings on the AAE Career Opportunities Exchange Board and see a preview of next year's Annual Session location in Dallas. Remember to enter the annual Oasis raffle—you may be a lucky winner!

AAE Registration and Information
AAE Registration and Information will be located in the lobby outside Hall A of the Anaheim Convention Center during the following hours:

- **Tuesday:** 3 – 8 p.m.
- **Wednesday:** 7 a.m. – 8 p.m.
- **Thursday:** 7 a.m. – 6 p.m.
- **Friday:** 7 a.m. – 5 p.m.
- **Saturday:** 7:30 a.m. – 5 p.m.

Annual Session Shirts
Attendees who ordered commemorative golf shirts will receive a claim ticket to pick up purchases at the AAE Oasis in the exhibit hall.

Badges
Your badge will admit you to all events included in your registration package (see Registration Categories on page 13); therefore, please wear your name badge to all functions. Tickets are required only for events not included in your package and for the President’s Dinner.

Board and Committee Meetings
Please refer to page 16 for a complete listing of AAE Board and committee meetings.

Career Opportunities Exchange
Find the very latest job prospects or post your opening on the Career Opportunities Exchange Board, located in the AAE Oasis in the exhibit hall. The job board is hosted and monitored by the Membership Services Committee.

Childcare
While the AAE does not organize childcare during the Annual Session, information regarding insured and bonded babysitters in the Anaheim area can be obtained from the Concierge Desk at the Hilton Anaheim.

Continuing Education Credits
A Continuing Education Certificate of Completion form is provided for your use. The CE credits 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 form should be retained by the participant or sent to the state board. The AAE is an ADA CERP Recognized Provider.

Exhibits
Please refer to the Exhibits section of this program (page 48) for a complete list of participating companies. Your name badge is required for admittance to the exhibit hall. Exhibits will be open during the following hours:

- **Thursday:** 10 a.m. – 6 p.m.
- **Friday:** 8 a.m. – 5 p.m.
- **Saturday:** 8 a.m. – 1 p.m.

Message Board
A message board will be available to Annual Session attendees in the Registration and Information area.

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

President’s Dinner Seating
To reserve seating for the President’s Dinner, you must exchange your voucher for a dinner ticket **no later than 6 p.m. on Thursday, May 6.** If you wish to have group seating, a voucher must be presented at the same

Evaluations
Your opinion counts! Assist the AAE in preparing future programs by completing an evaluation form for each session that you attend. Evaluation forms will be distributed by the room monitor at the beginning of each session and collected at the conclusion. Or, you can drop your completed forms in the receptacles located in the AAE Registration and Information area.
time for each person in your group. Tables are reserved on a first-come, first-served basis. The President’s Dinner Seating desk will be located in the AAE Registration and Information area during the following hours:

- **Tuesday:** 3 – 8 p.m.
- **Wednesday:** 7 a.m. – 8 p.m.
- **Thursday:** 7 a.m. – 6 p.m.
- **Friday:** Closed
- **Saturday:** Closed

**Restaurant Reservations**
The Anaheim/Orange County Visitor and Convention Bureau provides a restaurant reservation service to assist you with your dining needs. Visit the restaurant booth in the lobby of the Anaheim Convention Center for information about local restaurants or to make a reservation.

**Session Handouts**
Speakers are encouraged to provide handouts for their session. Handouts received by the AAE will be distributed at the corresponding session. Extra copies of these handouts will be available in Room 202 A at the Anaheim Convention Center.

**Session Recording**
Many of the sessions presented will be recorded and available for purchase on CD-ROM (MP3 format). Please refer to the Audio Recording Order Form provided in your registration packet, or visit the Sound of Knowledge sales desk in the AAE Registration and Information area.

**Simultaneous Interpretation**
Interpretation from English to Spanish, Japanese and Portuguese will be available for the sessions marked by the headphone icon. To obtain a complimentary headset, please stop by the Simultaneous Interpretation desk located in the AAE Registration and Information area during registration hours. Headsets will be distributed on a first-come, first-served basis.

**Speaker-Ready Room**
Presenters may view their presentations or obtain assistance in Room 202 B at the Anaheim Convention Center.

**Special Assistance**
If you have a physical, communication or dietary restriction that may affect your participation in Annual Session activities, please see Joan Kulikowski at the AAE Registration and Information desk.

However, the AAE, the Anaheim Convention Center and the Hilton Anaheim cannot ensure the availability of appropriate accommodation without sufficient notification of need.

**Special Events and On-Site Ticket Sales**
Refer to the Special Events section of this program (page 14) for a listing of special events taking place in conjunction with the Annual Session. If you are uncertain whether an event is included in your registration fee, please see the Registration Categories explanation on this page.

On-site event sales are subject to availability. You must purchase admittance to an event at least 24 hours in advance, with the exception of the President’s Dinner, which requires purchase and table assignment no later than 6 p.m. on Thursday, May 6.

**Tour Program**
The optional tour program, offered by The Event Team, has been designed exclusively for AAE attendees. Prepaid tour packets must be picked up prior to the scheduled tour time. All tours depart from the Hilton Anaheim front entrance. Stop by the Optional Tours desk in the AAE Registration and Information area during the times listed below:

- **Tuesday:** 3 – 8 p.m.
- **Wednesday:** 7 a.m. – 8 p.m.
- **Thursday:** 7 a.m. – 5 p.m.
- **Friday:** 7 a.m. – 5 p.m.
- **Saturday:** 7:30 – 9 a.m.
**Welcome Reception**

**Welcome Reception**

HA – Sunset Deck, 5th floor

Don’t miss this opening night “Beach Blast” on the Hilton Anaheim’s Sunset Deck. The Welcome Reception is a great way to visit with friends and meet new colleagues. Come dressed casually for this outdoor festivity.

**Special Events**

**Wednesday**

6:30 - 8 P.M.

**Welcome Reception**

HA – Sunset Deck, 5th floor

Don’t miss this opening night “Beach Blast” on the Hilton Anaheim’s Sunset Deck. The Welcome Reception is a great way to visit with friends and meet new colleagues. Come dressed casually for this outdoor festivity.

**Thursday**

8 - 10 A.M.

**Opening Session Breakfast** *

ACC – Ballroom

Join your fellow endodontists at the breakfast table to launch the 2004 Annual Session! Dr. Mahmoud Torabinejad, AAE President, will present the keynote address. In addition, breakfast attendees will receive an overview of the many different activities, sessions and presentations that await them in the days ahead.

**Noon - 1:30 P.M.**

**Louis I. Grossman Luncheon** *

ACC – Room 210

Sponsored by the College of Diplomates of the American Board of Endodontics, this year’s luncheon program will recognize endodontists who achieved Board certification during 2003.

In addition, guest speaker Dr. Arthur A. Dugoni will discuss the qualities of leadership and the opportunities for leadership. All too often on the long road, young leaders become servants of “what is” rather than the shapers of “what might be.” In the long process of learning how the system works, they are rewarded for playing within the intricate structure of existing rules and by the time they reach the top, they are likely to be trained prisoners of the structure. Potential leaders who have been schooled to believe that all elements of a problem are rational and technical, reducible to words and numbers, and solvable by computers, are ill-equipped to move into an area where intuition, empathy and listening are very powerful aids in leadership especially in problem solving.

**5 - 6 P.M.**

**Exhibit Hall Happy Hour and Foundation Live Auction** *(Bidding opens at 5:30 p.m.)*

ACC – Hall A

Take this opportunity to wind down in a casual atmosphere immediately following Thursday’s educational program. The Foundation Live Auction will be conducted in conjunction with this networking opportunity. If you are in the market for quality products at incredible prices, or simply in the mood for a beverage and light snack, this is the event for you. Specific items for auction will be available for viewing in the exhibit hall throughout the day on Thursday. Proceeds benefit the AAE Foundation.

**Friday**

6:30 A.M.

**Fun Run**

HA – Front Entrance

Bring your running gear and join fellow AAE members, family and friends for a refreshing and scenic morning run. Route maps will be available the morning of the run for short, intermediate and long distance runners.

**11:30 A.M. - 1:15 P.M.**

**Edgar D. Coolidge Luncheon** *

ACC – Ballroom

Plan now to be a part of the ceremonies to honor these outstanding AAE members. All awards will be presented at this luncheon with the exception of the graduate student winners.

**EDGAR D. COOLIDGE AWARD**


The Edgar D. Coolidge Award, AAE’s highest honor, is presented to an individual who has displayed leadership and exemplary dedication to dentistry and endodontics.

**LOUIS I. GROSSMAN AWARD**

**Larz S.W. Spångberg, D.D.S., Ph.D.**

Recognizes an author for cumulative publication of significant research studies that have made an extraordinary contribution to endodontics.

**EDWARD M. OSETEK EDUCATOR AWARD**

**Stephen J. Clark, D.M.D.**

Presented to a full-time educator with less than six years teaching experience, who has earned the esteem and respect of students and faculty associates. The award is named in memory of Dr. Edward M. Osetek, who was an influence and inspiration to many students during his teaching career.

**I.B. BENDER LIFETIME EDUCATOR AWARD**

**Leif K. Bakland, D.D.S.**

Presented to an individual who has been a full-time educator for at least 15 years, whose contributions to endodontics have demonstrated excellence through selfless commitment to full-time educational pursuits, and whose valuable contributions have instilled in his/her students the desire to pursue excellence in their careers. The award is named in honor of Dr. I.B. Bender, in recognition of his legacy as an outstanding teacher and mentor.
Honorary Membership

Ivar A. Mjör, M.S.D., M.S.

Honorary membership recognizes individuals who are not eligible for Active membership in the AAE but have significantly contributed to the advancement of endodontics.

9 P.M. - midnight

Celebrate Anaheim!
House of Blues/Downtown Disney®

This popular late-night celebration will be held at the House of Blues, the biggest name in nightlife at Downtown Disney®. Start the evening by enjoying one of Downtown Disney's® many dining options before joining colleagues for this private AAE event. Continuous shuttle service will run between the front entrance of the Hilton Anaheim and Downtown Disney® beginning at 8 p.m. The last shuttle will leave Downtown Disney® at 12:30 a.m. following the conclusion of the event. Your name badge is required for admittance to this private event.

Saturday

11:30 A.M. - 1 P.M.

Colleagues Luncheon
ACC – Ballroom

The AAE/Dentsply Resident Awards will be presented at this luncheon, recognizing the top ten presenters for oral and poster presentations, and table clinics. Take a break from learning, have lunch with your colleagues and join us in acknowledging the award recipients and Dentsply International for their support of this new program.

7 P.M. - Reception
8 P.M. - Dinner

President’s Dinner
HA – Pacific Ballroom

Join your peers for a spectacular “Premier Night” of fine dining and entertainment at this traditional event hosted by Dr. Mahmoud Torabinejad, AAE President.

(Black tie optional. Advance table assignment is required. Please see page 12 for details.)

*Meals will be served at the noted start time. In order to facilitate program timing, meal service may not be available for latecomers.
Sunday, May 2

**AAE Board of Directors Meeting**
8 A.M. – 5 P.M.
HA – Huntington

**ABE Board of Directors Meeting**
8 A.M. – 6 P.M.
HA – Executive Board Room

Monday, May 3

**AAE Board of Directors Meeting**
8 A.M. – 5 P.M.
HA – Huntington

Tuesday, May 4

**AAE Foundation Board of Trustees Meeting**
8 A.M. – 5 P.M.
HA – Capistrano

**Wednesday, May 5**

**AAE Foundation Trustees, AAE Directors and Volunteers Breakfast**
7 – 8 A.M.
HA – Huntington

**Honors and Awards Committee Meeting**
9 A.M. – NOON
HA – La Jolla

**Incoming Board of Directors Orientation Meeting**
9 A.M. – NOON
HA – Palos Verdes

**AAE 2004-2005 Committee Chairs Meeting**
1:30 – 4:30 P.M.
HA – Palos Verdes

Thursday, May 6

**Alliance Board of Directors and Incoming Board of Directors Meeting**
7 A.M.
HA – Executive Boardroom

Friday, May 7

**Alliance General Membership Meeting**
8 – 9 A.M.
HA – Avila

**Alliance Member Breakfast**
9 – 9:45 A.M.
HA – Avila

**Speaker—Ellen Cutler, M.D., Author of The Food Allergy Cure**
9:45 – 11:45 A.M.
HA – Avila

Dr. Cutler is the founder and director of the BioSET Institute where she created an innovative method of addressing allergies through kinesiology, electrodermal testing, detoxification, enzyme therapy and nutrition. The author of three books, she lectures extensively on a variety of health-related issues.

**AAE Alliance Officers**

**President**
Rebecca Funderburk (David)

**President-Elect**
Danielle Semitecolos (Randy Griffin)

**Secretary**
Carol Hovland (Eric)

**Treasurer**
Judy Calhoun (Richard)

**Parliamentarian**
Carol Cooke (Groves)

**Local Chair**
Stella Okada (Jeffrey)
Alumni and Affiliate Functions

All functions will take place at the Hilton Anaheim unless otherwise noted.

Wednesday, May 5
Baylor College of Dentistry
Reception: 9 – 11 p.m.
Manhattan

University of Detroit Mercy
Dinner: 8:30 p.m.
Off-Site Location

University of Michigan Alumni
Dinner: 8 p.m.
Off-Site Location

U.S. Army Association of Endodontists
Business Meeting: 5:15 – 6:15 p.m.
Carmel

Thursday, May 6
Case Western Reserve University
Reception: 5:30 – 7:30 p.m.
Laguna B

Harvard School of Dental Medicine
Dinner: 6:30 p.m.
Off-Site Location

Loma Linda University
California State Association of Endodontists
Southern California Academy of Endodontics
Reception: 6:30 – 9 p.m.
Redondo

Louisiana State University
Reception: 6 – 9 p.m.
Coronado

Loyola University
Dinner: 7 – 9 p.m.
Off-Site Location

Marquette University
Reception: 6 – 7 p.m.
Lido A

Michigan Association of Endodontists
Reception: 6:30 – 8 p.m.
Laguna A

Oregon Health & Science University
Reception: 6:30 – 8 p.m.
San Simeon A

New York University
Reception: 6 – 8 p.m.
Huntington B

Nova Southeastern University
Reception: 8:30 – 10 p.m.
Carmel

Temple University
Reception and Dinner: 6 p.m.
Off-Site Location

Tufts University
Reception: 6 – 7:30 p.m.
La Jolla

State University of New York at Buffalo
Reception: 5 – 7 p.m.
Lido C

University of California–Los Angeles
Reception: 5:30 – 8:30 p.m.
Lido B

University of Florida
Reception: 5:30 – 7:30 p.m.
Avila B

University of Iowa
Reception: 6 – 8 p.m.
Manhattan

University of Louisville
Reception: 6:30 – 8:30 p.m.
Avila A

University of Maryland
Reception: 6:30 – 8:30 p.m.
Monterey

University of Missouri–Kansas City
Reception: 5:30 – 6:30 p.m.
Santa Barbara

University of North Carolina Tarheel Endodontic Association
Reception: 6 – 7:30 p.m.
San Clemente

University of Pennsylvania
Reception: 6 – 7:30 p.m.
Capistrano

University of Pittsburgh
Reception: 6 – 8 p.m.
El Capitan A

University of Southern California
Reception: 6 – 8 p.m.
Palos Verdes

University of Texas at Houston
Reception: 6 – 7:30 p.m.
El Capitan B

University of Texas at San Antonio
Reception: 6 – 8 p.m.
Huntington C

University of Washington
Reception: 6 – 8 p.m.
Oceanside

U.S. Navy Association of Endodontists
Reception: 5:30 – 8 p.m.
Malibu

West Virginia University
Business Meeting: 5 – 6:30 p.m.
Executive Boardroom

Friday, May 7
Albert Einstein Endodontic Alumni Society
Reception: 6 – 7:30 p.m.
Coronado

Boston University
Dinner: 7 p.m. – midnight
Laguna

California State Association of Endodontists
Breakfast/Board Meeting: 7 – 9 a.m.
Salinas

Northwestern University
Reception: 6 – 8 p.m.
Avila

Oklahoma Association of Endodontists
Breakfast Meeting: 7:30 – 9:30 a.m.
Lido A

University of Toronto
Breakfast Meeting: 7 – 8:30 a.m.
Malibu

U.S. Navy Association of Endodontists
Breakfast Meeting: 7 – 9:30 a.m.
Capistrano

Virginia Commonwealth University/ Medical College of Virginia
Reception: 6 – 9 p.m.
San Clemente

Saturday, May 8
Boston University
Breakfast Meeting: 7:30 – 9 a.m.
Palisades

U.S.A.F. Association of Endodontists
Breakfast Meeting: 7 – 8:30 a.m.
Off-Site Location

Other Functions

Wednesday, May 5
College of Diplomates
Board of Directors Meeting: 4:30 – 6 p.m.
Redondo

Endo Standards Group
Business Meeting: 1 – 5 p.m.
Monterey

Thursday, May 6
African-American Endodontists
Reception: 7:30 – 9 p.m.
Huntington A

Christian Endodontic Society
Reception: 5 – 6 p.m.
Mezzanine Room 14

Harry J. Healey Endodontic Study Club
Reception: 6:30 – 8:30 p.m.
San Simeon B

International Federation of Endodontic Associations
Reception: 6:30 – 8 p.m.
Santa Monica

Friday, May 7
French Society of Endodontists
Reception: 6 – 8 p.m.
El Capitan

Saturday, May 8
Endodontic Section of ADEA
Business Meeting: 1:30 p.m.
Anaheim Convention Center Room 201 A/B

Endodontic Section of Triple O Editorial Board
Breakfast Meeting: 7 – 8:30 a.m.
Lido A
Pre-Session Symposium

Current Concepts and Controversies in Vital Pulp Therapy  Ballroom, Level 3

Dedicated to the memory of Drs. I.B. Bender and Samuel Seltzer.

The Continuing Education Committee has developed an educational program that takes a comprehensive look at the changes, controversies and emerging technologies in vital pulp therapy. As endodontists, our most important mission is to extend the longevity of otherwise compromised dentition. Although we spend a vast majority of our time cleaning, shaping and obturating canals, our ideal goal is preserving the vitality of some teeth. Over the last decade, evidence-based science has replaced some of the dogma that has dictated our clinical protocol.

After a brief introduction by Dr. Kenneth Zucker, Dr. Rex Holland will discuss an in-depth review of pulp biology and possible new techniques for repair and regeneration. The second topic will focus on the response of the dentin and pulp to restorative procedures, presented by Dr. Ivar Mjör. Dr. Shahrokh Shabahang will review the biology of root development and the clinical management of developing teeth that have been subjected to trauma or carious injury. After a lunch break, Dr. Martin Trope will address new possibilities of revascularization of immature teeth exhibiting infection and apical periodontitis. Finally, Dr. Pamela Robey will share current research in cloning of oral tissues using stem cell regeneration. A panel discussion and question and answer session will conclude the symposium.

Available CE Units: 7

Wednesday, May 5

<table>
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<tr>
<th>Time</th>
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<tr>
<td>7 – 8 A.M.</td>
<td>Continental Breakfast</td>
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<td>8 – 8:15 A.M.</td>
<td>Introduction</td>
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<td>8:15 – 9:15 A.M.</td>
<td>Biology of the Dental Pulp</td>
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<tr>
<td>9:15 – 10:30 A.M.</td>
<td>Effects of Restorative Procedures on Dentin and Pulp</td>
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<tr>
<td>10:30 – 11 A.M.</td>
<td>Break</td>
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<td>11 A.M. – 12:30 P.M.</td>
<td>Management of Pulp in Teeth With Immature Roots</td>
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<td>12:30 – 2 P.M.</td>
<td>Lunch</td>
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<tr>
<td>2 – 3:15 P.M.</td>
<td>Management of Pulpless Teeth With Immature Roots</td>
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<tr>
<td>3:15 – 4:15 P.M.</td>
<td>Stem Cells for Oral Tissue Engineering</td>
</tr>
<tr>
<td>4:15 – 5 P.M.</td>
<td>Question and Answer Session</td>
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This session required registration in advance. On-site registration will not be accepted.
Biology of the Dental Pulp

GRAHAM R. HOLLAND, B.D.S., PH.D.

The structure and physiology of the dental pulp will be described with special emphasis on recent findings concerning the presence and roles of stem cells, the linking of nervous to immune system components and the special nature of pulpal pain. The possibility of new techniques that may allow repair and regeneration of the compromised pulp will be emphasized together with a comment on the limitations of our current ability to detect the degree of compromise.

At conclusion, participants should be able to:
- Identify the basic structure and organization of the dental pulp.
- Describe the ability of the pulp to respond to bacterial challenge.
- Adapt, biologically, to new approaches to vital pulp therapy.

Effects of Restorative Procedures on Dentin and Pulp

IVAR A. MJÖR, B.D.S., M.S.D., M.S.

The lecture will focus on the interaction between tissue reactions in dentin and pulp. Detailed knowledge of the reaction patterns of dentin is fundamental for the understanding of pulp reactions to restorative procedures. Emphasis will be placed on reaction patterns in newly erupted human teeth and on the limitation of this knowledge with respect to the reaction potentials of the dentin and pulp in teeth from adults both younger and older.

At conclusion, participants should be able to:
- Differentiate between various types of tissue reactions in dentin in newly erupted human teeth.
- Describe the effect of tissue changes in the dentin and pulp as a result of caries and age of the patient.
- Explain the importance of dentin permeability on the effect of pulp reactions to restorative procedures.

Management of Pulp in Teeth With Immature Roots

SHAROHKH SHABAHANG, D.D.S., M.S., PH.D.

This lecture will review the biology of root development and cover the current recommendations for the treatment of teeth with immature roots. The presentation will focus on management of developing teeth that have been subjected to traumatic or carious injury resulting in limited injuries to the pulp or pulpal necrosis. The current recommendations for the treatment of such teeth based on the available evidence will be reviewed. Finally, the expected outcomes of such treatments will be discussed.

At conclusion, participants should be able to:
- Recognize treatment options for teeth with immature roots based on the status of the pulp.
- Apply current evidence-based information to treatment planning of teeth with immature roots.

Management of Pulpless Teeth With Immature Roots

MARTIN TROPE, B.D.S., D.M.D.

Pulpless teeth with immature roots present a particular challenge because the apex is open and the dentinal walls are thin and very susceptible to fracture. Revascularization of such teeth is possible soon after a traumatic injury, but was never thought possible with an infected canal and apical periodontitis. The rationale and technique will be presented where revascularization often occurs in these pulpless immature teeth with apical periodontitis. A new filling material that strengthens the root against fracture will be introduced.

At conclusion, participants should be able to:
- Understand the challenges presented by pulpless immature teeth.
- Describe the rationale for successful revascularization of such teeth.
- List the conditions under which pulpless immature teeth with apical periodontitis may revascularize.

Stem Cells for Oral Tissue Engineering

PAMELA GEHRON ROBEY, PH.D.

The maintenance of form and function of craniofacial hard tissues and associated connective tissues depends on the existence of stem cells, which are remarkable in their ability to self-renew and to completely reform a given tissue. Although not identical in their character, stem cells have been isolated from bone marrow and dental pulp, and current preclinical studies indicate that they may be useful in reconstruction of structures lost due to trauma or disease processes.

At conclusion, participants should be able to:
- Describe the nature of postnatal stem cells that form hard tissue and their similarities and differences.
- Identify their multi-potentiality and their plasticity in forming cells of different types.
- Recognize their possible use in various forms of regenerative medicine.
Oral Research Presentations I
Graduate Student Section
Room 201 A/B
Moderator: André K. Mickel, D.D.S., M.S.D., Beachwood, Ohio

10:30 a.m.
Effect of 2% Chlorhexidine Gel as an Intracanal Medication on the Apical Seal of the Root Canal System
ROLF M. WUERCH, D.D.S. (PRESIDENT)
M.J. APICELLA, P. MINES, P.P. YANGCHI, D.H. PASHELY, U.S. Army Dental Activity, Ft. Bragg, NC, U.S. Army Dental Activity, Ft. Sam Houston, TX, and Medical College of Georgia

This session will not be recorded.

10:45 a.m.
The In Vitro Efficacy of Chlorhexidine, Sodium Hypochlorite and Doxycycline Preparations Against Enterococcus Faecalis
BERNARD H. HOFMANN, D.M.D. (PRESIDENT)
G.E. MINAH, S.B. MCCLANAHAN, J.R. THORPE, J.D. JOHNSON, Naval Postgraduate Dental School, Bethesda, MD, and University of Maryland

This session will not be recorded.

11 a.m.
The Effect of IKI or Betadine Scrub, Each in Combination With CaOH, Used as Irrigants in E. Faecalis–Infected Root Canals
KIMBERLY Y. CATER, D.M.D. (PRESIDENT)

This session will not be recorded.

11:15 a.m.
An In Vitro Study of the Antimicrobial Action of Chloroform and Chloropercha
SHAHIN ETEMADI, D.D.S. (PRESIDENT)
A.K. MICKEL, S. CHOGLE, J. JONES, Case Western Reserve University

11:30 a.m.
The Antibacterial Efficacy of Chlorine Dioxide as an Endodontic Irrigant
RUSSELL S. EINDY, D.M.D. (PRESIDENT)

11:45 a.m.
An In Vitro Evaluation of the Cytotoxicity of Various Endodontic Irrigants
BRIAN D. BARNHART, D.M.D. (PRESIDENT)
S-100  Integrating Visualization Instruments Into Your Practice  Room 204

The technological evolution of visualization for conventional and surgical endodontics has significantly advanced over the last decade. The microscope, oroscope and endoscope were integrated into the endodontic treatment armamentarium and enabled endodontists to become more discerning about endodontic etiology and treatment procedures. Yet confusion and controversy over these visualization instruments exists. This lecture will address the advantages, disadvantages and rationale for integration of the microscope, oroscope and endoscope in the clinical practice of endodontics.

At conclusion, participants should be able to:

- Compare the strength and weakness of the microscope, oroscope and endoscope.
- Describe how to best integrate the use of the microscope or endoscope into conventional and surgical endodontic treatment.
- Discuss the selection of the most appropriate instrument for specific needs.

A-102  Herbal Products and Patients’ Medications: Are They Concerns for Dentistry?  Room 206

This session will educate participants about the important consequences of the many herbal products and nutritional supplements commonly taken by patients and will assist the team in preventing and dealing with these problems. This session will also focus on the importance of current medical and medication histories. Emphasis will be placed on the most common patient medications that can cause significant problems during treatment.

At conclusion, participants should be able to:

- Identify herbal products and nutritional supplements commonly used by patients and describe the effect of those products on treatment.
- Make recommendations to patients concerning the herbal products and nutritional supplements to reduce or prevent risk to the patient.
- Identify the importance of a current medical and medication history for patient treatment.

Sessions intended for auxiliary staff are denoted with an “A,” and sessions for professionals are designated with an “S.”
S-104  ABE Boardwalk: The Oral Examination

Room 207 C/D

The Directors of the American Board of Endodontics will highlight the Oral Examination phase of the ABE certification process. The discussion will focus on the format of the examination, the ten topics covered during the examination and important strategies in preparation for the Oral Examination. The program is intended to provide interested individuals with the opportunity to interact with the Directors and to clarify concerns regarding the certification process.

American Board of Endodontics Board of Directors

J. Craig Baumgartner, D.D.S., M.S., Ph.D.
Paul E. Fiebiger, D.D.S.
Keith V. Krell, D.D.S., M.S., M.A.
Carl W. Newton, D.D.S., M.S.D.

Oral Research Presentations III

Graduate Student Section

Room 201 A/B


1:30 p.m.

The Cleaning Efficacy of Different Instrumentation Techniques in Oval Canals

Zachary F. Schinella, D.D.S., M.S. (Presenter)
J.R. Ludington, R. Pileggi, T.A. Svec, J.A. Suchina, J.M. Powers. University of Texas at Houston

1:45 p.m.

Evaluation of the In Vivo Debridement Efficacy of Ultrasound After Hand and Rotary Instrumentation in Human Mandibular Molars

Rostislav R. Guitarte, D.D.S. (Presenter)
J. Nusstein, A. Reader, M. Beck. Ohio State University

2 p.m.

Evaluation of Apical Debris Removal Using Various Sizes and Tapers of Profile GT Files

Lynn J. Albrecht, D.D.S. (Presenter)

Educational Sessions

2:15 p.m.

Comparison of Profile and a Newly Designed File in Instrumentation of Oval Canals

Michael D. Brown, D.D.S. (Presenter)
E. Menegazze, M. Iqbal, S. Kim. University of Pennsylvania

This session will not be recorded.

2:30 p.m.

Cyclic Fatigue of 3 Nickel-Titanium Rotary Files in a Dynamic Model

James H. Yao, D.M.D. (Presenter)
S.A. Schwartz, T.J. Beeson. Wilford Hall U.S.A.F. Medical Center

2:45 p.m.

The Effect of Cryogenic Treatment on Nickel-Titanium Endodontic Files

Joon W. Kim, D.D.S. (Presenter)
J. Griggs, J.D. Regan, B. Ellis. Calif. Baylor College of Dentistry

This session will not be recorded.

Oral Research Presentations IV

Graduate Student Section

Room 201 C/D

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

1:30 p.m.

Effects of Proinflammatory Cytokines on the RANKL and OPG Expression in Mouse PDL Cells

Kewalin Thammasiroon, D.D.S. (Presenter)
J.A. Boch. Beth Israel Deaconess Medical Center and Harvard School of Dental Medicine

This session will not be recorded.

1:45 p.m.

Enamel Matrix Derivative Inhibits TNF-α Induced Apoptosis in Osteoblastic MC3T3-E1 Cells

Yiming King, D.M.D. (Presenter)
J. He, Q. Zhu. University of Connecticut and Baylor College of Dentistry

This session will not be recorded.

2 p.m.

Changes in Gene Expression in PDL Fibroblasts Exposed to Dentin Coated With Various ECM Proteins

K. Shane Fowler, D.D.S. (Presenter)
A. Spencer, B.G. Jeansonne, T.E. Lallier. Louisiana State University
2:15 p.m.  
**Effect of Sonicated Extracts of Enterococcus Faecalis on the Expression of α4 Integrins in Human Polymorphonuclear Neutrophils**  
WON-JUN SHON, D.D.S. (PRESIDENT)  
S. LIM, Seoul National University, Seoul, Korea

2:30 p.m.  
**Analysis of Synaptic RNA Expression Within the Pulp**  
CHARLES E. BROWN, D.D.S. (PRESIDENT)  
B.G. JEANSONNE, A. SPENCER, T.E. LALLIER, Louisiana State University

2:45 p.m.  
**Tumor Necrosis Factor–Alpha Enhances the Expression of TRPV1 mRNA in Rat Trigeminal Neurons**  
ASMA A. KHAN, B.D.S., PH.D. (PRESIDENT)  
K.M. HARGREAVES, University of Texas at San Antonio  
This session will not be recorded.

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**3:30-5 P.M.**

S-100 continued  **Integrating Visualization Instruments Into Your Practice**  
Room 204  
JAMES K. BAHCALL, D.M.D., M.S.  
Milwaukee, Wis.  
SYNGUK KIM, D.D.S., PH.D.  
MODERATOR: SCOTT K. BENKOWER, D.D.S.  
Evanston, Ill.  
See page 21 for a complete session synopsis.

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A-101 continued  **Proven Profitability Enhancement via UCR and Insurance Management**  
Room 205  
UDEL (DELL) WEBB, D.D.S.  
St. George, Utah  
MODERATOR: MS. MICHELE M. WHITLEY  
Lynn, Mass.  
See page 21 for a complete session synopsis.

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A-102 continued  **Herbal Products and Patients’ Medications: Are They Concerns for Dentistry?**  
Room 206  
PAM J. SIMS, PHARM.D., PH.D.  
Birmingham, Ala.  
MODERATOR: B. ELLEN BYRNE, D.D.S., PH.D.  
Midlothian, Va.  
See page 21 for a complete session synopsis.
S-107 Nickel-Titanium Rotary Instrumentation: Facts and Fiction Room 207 C/D
Nickel-titanium rotary instruments have changed many aspects of clinical endodontics, and many desirable properties are attributed to these instruments. However, unknowns regarding shaping procedures in complex three-dimensional canal systems still exist. This presentation will illustrate cleaning and shaping potential, and evaluate certain claims regarding nickel-titanium instruments. In order to enhance clinical success, the limitations and physical parameters of these instruments will be discussed, and clinical usage and outcomes of cases will be detailed.

At conclusion, participants should be able to:
- Assess the specific effects and performance of various endodontic preparation instruments on three-dimensional root canal geometry and canal surface morphology.
- Describe important physical parameters, such as apically directed force and torque during the use of nickel-titanium instruments in curved root canals.
- Select appropriate preparation instruments and sequences in order to optimize preparation efficiency, clinical success and safety, while minimizing the incidence of instrument separation.

S-108 Periapical Healing Room 303 A
MOTERADOR ANNE K. WILLIAMSON, D.D.S., Coralville, Iowa
A key objective of root canal treatment is the prevention and treatment of periradicular lesions of pulpal origin. Following the resolution of inflammation and repair, granulation tissues are replaced by regenerating bone and periodontal ligament. Cellular activity, matrix remodeling and growth factors are involved. Clinical cases will be presented, and the biological processes involved in repair and regeneration will be reviewed. Biomaterials and therapeutic agents that could enhance or impede periapical healing will be discussed.

At conclusion, participants should be able to:
- Recognize the importance of periradicular healing for the success of root canal treatment.
- Describe the biological processes that are involved in the repair and regeneration of periradicular tissues.
- Evaluate factors that could enhance or impede the healing process.

Oral Research Presentations V Graduate Student Section
Room 201 A/B

3:30 p.m.
Effects of Mineral Trioxide Aggregate on the Osteogenesis of Normal Human Osteoblasts
AMIR H. MEHRABI, D.D.S. (Presenter)
J.W. HUTTER, L. CHOU Boston University

3:45 p.m.
White ProRoot MTA Induces Pulpal Cell Proliferation In Vitro
SASAN MOGHADDAM-JAFARI, M.S., D.D.S. (Presenter)
M.G. MANTALLINI, T.M. BOTEKO, N.J. MCDONALD, J.E. NOR University of Michigan

4 p.m.
A Comparison of Resected White MTA Versus Retrofilled White MTA: A Dye Leakage Study
MICHAEL R. KERTES, D.D.S. (Presenter)
M.J. APICELLA, P. MINES, P. VANCICH, M.H. PARKER, U.S. Army Dental Activity, Ft. Bragg, NC, U.S. Army Dental Activity, Ft. Sam Houston, TX, and U.S. Medical Center, Augusta, GA

This session will not be recorded.
Educational Sessions / Thursday

4:15 p.m.
Contamination of Mineral Trioxide Aggregate Used as a Root-End Filling Material: A Bacterial Leakage Model
ANGELA M. BULLOCK, D.M.D. (PRESIDENT)
SA. SCHWARTZ, T.J. REESON, Wilford Hall U.S.A.F. Medical Center

4:30 p.m.
A Model for Studying Core Leakage of Mineral Trioxide Aggregate
THOMAS B. BOZEMAN, D.D.S. (PRESIDENT)
R. LEMON, J. STURTEVANT, University of Alabama and Louisiana State University

4:45 p.m.
Comparative Study of White and Gray MTA Simulating a 1- or 2-Step Apical Barrier Technique
GARY D. MATT, D.D.S., M.S. (PRESIDENT)
J. THORPE, J. STROTHER, S. MCCLANAHAN, Naval Postgraduate Dental School, Bethesda, MD
This session will not be recorded.

Oral Research Presentations VI
Graduate Student Section
Room 201 C/D
Moderator: Kenneth M. Hargreaves, D.D.S., Ph.D., San Antonio, Texas

3:30 p.m.
Management of Central Sensitization via Pre-Emptive Analgesics Strategies
BRIAN P. CHUANG, D.A.D. (PRESIDENT)
C.C. PICCO, S.M. GORDON, J.S. BRAHIM, J.W. HUTTER, R.A. DIONNE, Boston University and National Institute of Dental and Craniofacial Research

3:45 p.m.
Articaine vs. Lidocaine for Inferior Alveolar Nerve Blocks in Patients With Irreversible Pulpitis
ELIZABETH M. CLAFFEY, D.D.S., M.S. (PRESIDENT)
A. READER, J. NUSSTEIN, M. BECK, J. WEAVER, Ohio State University

4 p.m.
Anesthetic Efficacy of Lidocaine and Mepivacaine in the Maxillary Second Division Nerve Block
AMY B. MARTINKUS, D.D.S. (PRESIDENT)
A. READER, J. NUSSTEIN, M. BECK, J. WEAVER, Ohio State University

4:15 p.m.
Anesthetic Efficacy of 4% Articaine With Epinephrine Compared to 2% Lidocaine With Epinephrine in Inferior Alveolar Nerve Blocks
PHILIP B. MIKESELL, D.D.S., M.S. (PRESIDENT)
J. NUSSTEIN, A. READER, M. BECK, J. WEAVER, Ohio State University
W-1  **Endodontic Microsurgery: A Hands-On Workshop**  
Room 303 C/D

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

At conclusion, participants should be able to:

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

**Please note:** This workshop required registration in advance.

The AAE would like to recognize the following companies for their generous contribution to both of this year's hands-on workshops:

- ASI Medical, Inc.
- Brasseler USA
- Dentsply Tulsa Dental
- Global Surgical Corporation
- JedMed Instrument Company
- Kilgore International
- PracticeWorks/Trophy Dental
- Roydent Dental Products
- Sullivan-Schein Dental
- SybronEndo

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S-200  **Holding the High Ground by Mastering Creative Methods to Help Patients Keep Significantly Compromised Teeth**  
Room 204

Challenged by the burgeoning emergence of implantology, some endodontic procedures once considered routine are increasingly described as heroic and unnecessary. New methods, materials, instruments and devices provide opportunities to invalidate those descriptors. This “working presentation” will demonstrate unique methods for obstruction bypass, management of the severest of canal wall irregularities and coronal breakdown.

At conclusion, participants should be able to:

- Describe a novel method for bypass of obstructions of all kinds, at all levels within the system, and even beyond significant curvatures.
- Describe a novel method for reconstructing debilitated canal walls and/or severe coronal breakdown as the first stage of endodontic treatment.
- Describe various techniques for gaining access to deep obstructions and the specific instrumentarium for all techniques discussed.

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A-201  **The Ergonomics of a Digital Endodontic Office**  
Room 205

This two-part presentation will present ergonomic guidelines for the creation of a digital office. Both front office and operatory guidelines that facilitate having a “paperless” office will be covered. Particular emphasis will be placed on the role of auxiliary personnel and their ergonomic well-being, and on documentation and digital recordkeeping. These concepts will be demonstrated through the use of still pictures, case studies, video and a review of several digital offices that have applied these concepts.

At conclusion, participants should be able to:

- Custom design their own front office and operatory using fundamental design parameters.
- Describe the ergonomics of digital documentation and how digital documentation can enhance any practice and improve the level of care.
- Describe how digital recordkeeping is performed in a typical endodontic practice and how digital technologies improve the communication of tasks between front and back office, as well as enhance communication with referral sources.
A-202 Dental Radiographic Pitfalls and How to Avoid Them

High-quality dental radiographs are essential in the diagnosis and subsequent treatment of dental diseases. Room for improvement in practitioners’ radiographic procedures exists. This lecture will present helpful tips beyond the level of standard dental and auxiliary training for the everyday clinical practice of dentistry, including intraoral, panoramic and darkroom techniques, and provide an overview of new digital x-ray systems.

At conclusion, participants should be able to:
- Describe the fundamental knowledge of proper intraoral, panoramic and film processing techniques.
- Describe the fundamentals involved as practitioners convert from film-based to digital x-ray imaging.
- Apply this knowledge toward the improvement of skills and the prevention and correction of common radiographic errors.

S-203 Endoscope Use in the Surgical Theatre

A demonstration of how the endoscope is used in surgical cases will be presented. Direct intraoral light and magnification aids in the treatment and diagnosis of difficult surgical procedures. Microvideography with state-of-the-art endoscopy will continue to increase visual acuity as the technological revolution continues. An overview of how the endoscope allows the surgeon to observe the operating field will be shown.

At conclusion, participants will be able to:
- Describe how the endoscope is used to obtain the visualization required for successful treatment.
- Describe how intracrypt illumination and magnification allows direct observation, diagnosis and treatment.
- Explain why the endoscope will continue to evolve with the technological revolution.
Successful outcome of tooth bleaching depends mainly on the etiology, correct diagnosis and proper selection of bleaching technique. Bleaching of nonvital teeth with oxidizing agents occasionally has been associated with root resorption. The pathogenic mechanism may involve diffusion of the bleaching agent through the radicular dentin, particularly in the presence of cementum defects. In this presentation, the etiology of bleaching-induced root resorption and its prevention will be discussed, based on clinical and experimental data.

At conclusion, participants should be able to:
- Identify the different causes for tooth discoloration and apply bleaching techniques for color correction.
- Describe the etiologic and contributing factors of bleaching-associated root resorption.
- Apply this knowledge for prevention of potential adverse effects.

This session will not be recorded.

Oral Research Presentations VII
Graduate Student Section
Room 201 A/B
Moderator: Linda G. Levin, D.D.S., Ph.D., Durham, N.C.

8 a.m.
The Effect of Diabetes Mellitus on Bacteria-Induced Bone Remodeling
ROBYN H. BEITZER, D.D.S. (Presenter)
D. Gravel, J.W. Hutter, Y. Jiang, Boston University

8:15 a.m.
C-Reactive Protein (CRP) Levels in Response to Chronic Apical Periodontitis in a Canine Model
GUY SHIPPER, B.D.S. (Presenter)
T.M. BUTKE, M. TROP, University of North Carolina

8:30 a.m.
Cervical Root Resorption: Is It Inflammatory or Noninflammatory in Origin?
ERNST A. RILLMAN, D.M.D. (Presenter)
J.H. SIMON, University of Southern California

8:45 a.m.
Healing of Mechanical Pulp Exposure in Diabetic and Nondiabetic Rats
STUART E. CARVER, D.D.S. (Presenter)
Loma Linda University

9 a.m.
The Role of IL-1 Isoforms in Periapical Bone Resorption
HESHAM A. YOUSEF, D.D.S. (Presenter)
P. STASHENKO. Harvard School of Dental Medicine and Forsyth Institute

9:15 a.m.
Determination of the Minimum Level of Circulating Bacteria That Causes Infective Endocarditis
LOUIS Z. STROMBERG, D.D.S. (Presenter)
A. EICHER, A.A. SAAV, S. SHABAHANG, M. TORABINEJAD. Loma Linda University

Oral Research Presentations VIII
Endodontist Section
Room 201 C/D

8 a.m.
Ultrastructural Study of Nerve Fibers in Inflammatory Periradicular Lesions
LOUIS M. LIN, D.M.D., Ph.D. (Presenter)
P.A. ROSENBERG, J.A. YANG, New York University

8:15 a.m.
Anesthetic Efficacy of the Supplemental Wand® PDL Injection in Patients With Irreversible Pulpitis
JOHN M. NUSTIN, D.D.S., M.S. (Presenter)
E. CLAFFEY, A. READER, M. BECK, J. WEAVER, Ohio State University

8:30 a.m.
A Comparative Evaluation of Celecoxib (a COX-2 Inhibitor) and Ibuprofen for Management of Acute Apical Periodontitis
NASIM G. AZAR, D.D.S., M.D. (Presenter)
R. KHORAMAND, Gulian University, Rasht, Iran

8:45 a.m.
NPY Y1 Agonists Inhibit Capsaicin-Sensitive Neurons in Peripheral Human Tissue
KARL KEISER, D.D.S., M.S. (Presenter)
J. GIBBS, K. HARGREAVES. University of Texas at San Antonio

9 a.m.
Opioids Inhibit Human PDL Nociceptors
KENNETH M. HARGREAVES, D.D.S., PH.D. (Presenter)
K. KEISER. University of Texas at San Antonio
9:15 a.m.
Tissue Solvent Activity of High Concentration NaOCl on Bovine Tendon Collagen
BRADFORD R. JOHNSON, D.D.S. (Presenter)
R. MUNARETO, A. CHRSZCZYK, J. DANIEL, T. REGOIE, University of Illinois at Chicago

8-11:30 A.M.

Poster Research Presentations
Graduate Student Section
Hall A

PR 1
Effects of Silicon, Calcium and Phosphorous Concentrations on the Growth, Differentiation and Mineralization of Dental Pulp Cells In Vitro
FARAH ABBASSI, D.M.D.
Boston University

PR 2
An In Vitro Evaluation of the Elements Apex Locator Using the Endo Q System
STEVEN A. BROFSKY, D.D.S.
Virginia Commonwealth University

PR 3
The Antibacterial Properties of Endodontic Solvents
GEORGE T. BROWN, JR., D.M.D.
Case Western Reserve University

PR 4
A Comparison of Success With 1-Appointment and 2-Appointment Molar Root Canal Therapy
KELLY L. BUSSEY, D.D.S.
University of Louisville

PR 5
Characterizations of Primary Human Pulpal Stem Cell Cultures: A Comparison of Different Methodologies and Passages of Cells
JAMES C. CHEN, D.D.S.
University of California, Los Angeles

PR 6
The Ability of Different Concentrations of NaOCl to Dissolve and Reduce the Weight of Bovine Pulp Tissue In Vitro
GRACE T. CHU, D.D.S.
Nova Southeastern University

PR 7
A Comparison of Bacteria on Hands After Alcohol-Based Hand Rub Alone vs. Chlorhexidine Hand Scrub With Water
KENAN D. CLINTON, D.D.S.
University of Alabama

PR 8
Radiographic Detection of the MB2 Canal in Maxillary Molars Using Digital Enhancement Software
LISA A. ELINGSIEN, D.D.S.
University of Louisville

PR 9
How Well Do You Know Your Electric Pulp Tester?
GREGORY T. ENGEL, D.M.D.
Naval Postgraduate Dental School, Bethesda, MD

PR 10
Torsional Testing of RaCe, K3 and Profile Nickel Titanium Endodontic Files
SEAN D. FESSENDEN, D.D.S.
Virginia Commonwealth University

PR 11
A Fluid Filtration Investigation of Leakage Through Root Canals
ROXENE S. GASCORNE, D.D.S.
Nova Southeastern University

PR 12
Trends in Endodontic Care in a Washington State Dental Population from 1993 to 2002
RACHELLE S. HECHT, D.M.D., AND THERON D. EICHER, D.D.S.
University of Washington

PR 13
Inhibition of Microbial Coronal Leakage of Temporary Filling by Calcium Hydroxide Layer
IGOR KANTOROVICH, D.M.D.
Case Western Reserve University

PR 14
Cytotoxicity and Genotoxicity of Newly Developed Calcium Phosphate–Based Root Canal Sealers
HEE JUNG KIM, D.D.S., M.S.D.
Seoul National University

PR 15
A Comparison of Media Used for In Vitro Analysis of the SybronEndo Elements Apex Locator
MATTHEW L. KJAR, D.M.D.
University of Louisville

PR 16
A Comparison of the Accuracy of Working Length Determination in a Clinically Simulated Typodont
HEIDI G. KORN, D.M.D., AND KENNETH W. FALK, D.D.S.
University of Michigan

PR 17
Application of Nondestructive Testing in Cyclic Fatigue of Endodontic Ni-Ti Rotary Instruments
UH-MING LI, D.D.S., M.S.
National Taiwan University
### Pathways to Success

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<th>What's the Point? A New Approach to Apical Irrigation</th>
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<td>Jung Lim, DDS, and Su-Jung Shin, DDS</td>
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<td>Kimberly A.D. Lindquist, DDS</td>
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<th>Endodontic Prevalence and Influential Retention Factors in a Native American Population</th>
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<td>Michael J. Mondola, D.D.S.</td>
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<td>M. Scott Monts, DDS</td>
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<td>Lisane Paquette, D.M.D.</td>
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<td>Brett A. Rosenberg, DDS</td>
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<th>Microbial Contamination of Endodontic Files Received From Manufacturers</th>
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<td>Todd P. Roth, D.M.D.</td>
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<td>Eric S. Shapiro, D.D.S</td>
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<th>Lidocaine Evokes Release of Immunoreactive Calcitonin Gene–Related Peptide in Rat Pulp</th>
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<td>Fernando H. Solano, DDS</td>
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<td>David L. Spencer, DDS</td>
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<th>Effect of Full Crown Preparation on the Responsiveness of the Human Dental Pulp to Electrical Stimulation In Vivo</th>
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<td>Rita Steiner, D.M.D.</td>
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<th>Molecular DNA–Based Analysis of Periradicular Lesions: A Pilot Study</th>
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<td>Kumar Subramanian, B.D.S., M.D.S.</td>
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<th>Apoptosis in Human Odontoblasts Stimulated With LPS</th>
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<td>Aaron J. Thompson, D.M.D.</td>
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<td>Scott I. Whitney, DDS</td>
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<th>Effect of Sealer Set and Obturation Technique on Apical Microleakage of Endotoxin</th>
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<td>Anne E. Williamson, DDS</td>
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<th>Histobacteriological Study of Failed Endodontically Treated Teeth With Overfillings</th>
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<td>Jean A. Yang, D.M.D.</td>
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Table Clinics
Graduate Student Section
Hall A

TC 1
Contemporary Endodontic Therapy and Allergens: Have We Opened Pandora's Box?
STEPHEN M. BENJAMIN, D.M.D., AND KYLE D. MOSES, D.D.S.
University of Texas at Houston

TC 2
Demonstration of Suturing Techniques Using Simulated Gingiva
JASON R. CALVERT, D.D.S., AND XIA LIN, D.M.D.
New York University

TC 3
Triazolam Intensifies Conditioned Fear Physiology—Case Report
Naval Postgraduate Dental School, Bethesda, MD

TC 4
It’s All About Knots!
Baylor College of Dentistry

TC 5
An In Vivo Evaluation of Hemostatic Agents for Endodontic Surgery
Marquette University

TC 6
History of Endodontic Microbial Analysis: Techniques, Findings and Implications
ALLEN D. COUC, D.D.S.
Case Western Reserve University

TC 7
Digital Photography and the Dental Operating Microscope
BRENT J. CRUMPTON, D.M.D., AND MELISSA L. JUFF, D.M.D.
Naval Postgraduate Dental School, Bethesda, MD

TC 8
Techniques for Difficult Isolation Cases
University of Washington

TC 9
Identifying Clinical Factors to Increase Successful Capping of Exposed Pulps
ABEERA A. HAFEZ, B.D.S., M.S., D.D.S.
University of Iowa

TC 10
Differences Between Radiographic Interpretation and Clinical Reality in Root Canal Preparations
JAYSON S. HARTMAN, D.M.D., AND JOHN F. PETERS, D.D.S.
Nova Southeastern University

TC 11
Adhesive Techniques for the Retrieval of Separated Files
SCOTT H. HORSLEY, D.D.S.
University of Louisville

TC 12
Relative and Absolute Contraindications to Vasocostrictor Use in Medically Compromised Dental Patients
University of Texas at Houston

TC 13
Extra-Oral Sinus Tracts of Odontogenic Origin
KRISTIN M. JAMES, D.D.S.
Albert Einstein Medical Center

TC 14
An In Vitro Comparison of the Setting Time of MTA With and Without Water
CRAIG D. JOHNSON, D.D.S.
Marquette University

TC 15
Effective Rotary Gutta-Percha Removal
PEI KANG, B.D.S.
Baylor College of Dentistry

TC 16
Apex Locators: Are Numbers, Bars and Lights Relevant?
Baylor College of Dentistry

TC 17
The Placement and Cost Associated With Non–Tooth Colored Intraorifice Barriers
SCOTT M. MALONEY, D.D.S., AND ANDREW S. HUTTULA, D.D.S.
Naval Postgraduate Dental School, Bethesda, MD

TC 18
A New Polymeric Obturating Material: Will It Go With the Flow?
Baylor College of Dentistry

TC 19
A Preliminary Investigation of the In Vivo Effects of Sonic Agitation of Sodium Hypochlorite in a Root Canal System
CAMERON L. PANGBORN, D.D.S.
Marquette University
Friday 8–11:30 A.M. (continued)

TC 20
Ultrasonic and Sonic Tools to Remove Posts: Which Are Best?
Baylor College of Dentistry

TC 21
Intracanal Antibiotics
ALVIN S. RO, D.D.S.
Albert Einstein Medical Center

TC 22
Blowing Through All-Porcelain Crowns: Access Preparation Using Air Abrasion
University of Washington

TC 23
Anatomic Factors for Failure in Mandibular Anesthesia and Possible Solutions
SHERMA R. SAEF, D.M.D., AND ROBERT T. RABEL, D.M.D.
Naval Postgraduate Dental School, Bethesda, MD

TC 24
Problem Solving Digital Photography Through the Surgical Operating Microscope
CHADWICK M. SARGENT, D.D.S., AND PAUL M. CREER, D.D.S.
University of Texas at San Antonio

TC 25
Schick's Computerized Imaging System: Software and Image Enhancements
JILLWEN L. SUNG, D.M.D., AND J. YANG, D.M.D.
New York University

TC 26
Revascularization of Avulsed Immature Teeth
ELLEN A. TEVEROVSKY, D.D.S.
Albert Einstein Medical Center

TC 27
Fiber Post Removal Techniques
J. ERIC WALDEN, D.M.D., M.S.
University of Louisville

TC 28
Nerve Injury as a Sequelae of Endodontic Treatment
MATTHEW B. WALSH, D.M.D.
Albert Einstein Medical Center

TC 29
Endo Dent: A Valuable Accessory to Preclinical Endodontics
University of Michigan

S-200 continued
Holding the High Ground by Mastering Creative Methods to Help Patients Keep Significantly Compromised Teeth
Room 204
C. JOHN MUNCE, D.D.S.
Santa Barbara, Calif.
HAMID R. ABEDI, B.D.S., I.D.S., D.D.S., M.S.
Chino Hills, Calif.
MODERATOR: SHIMON FRIEDMAN, D.M.D.
Toronto, Canada
See page 26 for a complete session synopsis.

A-201 continued
The Ergonomics of a Digital Endodontic Office
Room 205
GARY B. CARR, D.D.S.
San Diego, Calif.
MODERATOR: ALAN G. SELBST, D.M.D., M.S., J.D.
Houston, Texas
See page 26 for a complete session synopsis.

A-202 continued
Dental Radiographic Pitfalls and How to Avoid Them
Room 206
RICHARD A. WEEMS, D.M.D., M.S.
Birmingham, Ala.
MODERATOR: DAVID J. HOLTZMANN, D.M.D., M.S.
Aurora, Colo.
See page 27 for a complete session synopsis.

S-204 continued
Intentional Replantation and Autotransplantation of Teeth—Minimal Intervention for Traumatized Teeth
Room 207 C/D
MITSUHIRO TSUKIBOSHI, D.D.S., PH.D.
Amagun, Aichi, Japan
MODERATOR: LEIF K. BARKLAND, D.D.S.
Loma Linda, Calif.
See page 27 for a complete session synopsis.
**S-207** Cutting-Edge Biotechnologies for Endodontics—From Diagnosis to Treatment  
**Room 207 A/B**  
**Moderator: Bradford R. Johnson, D.D.S., Chicago, Ill.**

This presentation will review our past and current efforts in testing and applying the cutting-edge biotechnologies for clinical endodontics. In particular, recent advancements and developments such as nanotechnology, tissue engineering and gene therapy will be introduced and thoroughly described. The prospective and potential use of these emerging technologies for endodontic diagnosis and treatment will be discussed and analyzed.

At conclusion, participants should be able to:
- Describe the recent history regarding the application of biotechnologies for endodontic diagnosis and treatment.
- Identify the concepts of the new cutting-edge biotechnologies and their potential use in endodontics.
- Identify what future endodontic research is needed to be ready for the use of those technologies.

**S-208** Geriatric Endodontics: Diagnosis and Treatment of the Elderly Patient  
**Room 303 A**  
**Moderator: Carl W. Newton, D.D.S., M.S.D., Indianapolis, Ind.**

Older dental patients with increasingly complex dental needs are becoming more common. This presentation will discuss both similarities and differences between elderly and younger patients with an emphasis on some beliefs that likely are incorrect. Included will be pulpal and periodical biology and responses, medical considerations and restorative factors. Root canal treatment is often more challenging with these patients, and the concepts and strategies for management will be incorporated in the discussion.

At conclusion, participants should be able to:
- List the biological similarities and differences between the older and the younger patient.
- Apply treatment techniques that are suitable for the older patient.
- Explain why diagnosis and treatment planning differs and why there are frequently more complications in the older patient.

**S-209** Resident and New Practitioner Forum  
**Room 303 B**  
**Moderator: Mahmoud Torabinejad, D.M.D., M.S.D., Ph.D., Loma Linda, Calif.**

The AAE wants to hear from you! The Resident and New Practitioner Committee was created to promote communication among residents across the country and to prepare the AAE's newest members to be its future leaders. Join the committee for a lively panel discussion focused on developing activities and programs especially for residents and new endodontists. Topics will include: Board preparation, job searching and a discussion on associateships vs. solo practice. Learn about current committee initiatives and share your ideas and opinions. This interactive session is a first step in discovering how to make a smooth transition from school to specialty practice.

At conclusion, participants should be able to:
- Describe how to network with residents across the country.
- Identify how the AAE will incorporate activities for residents and new practitioners into future programs.
- Understand how they can contribute to current initiatives for residents and new practitioners, and how to affect future changes to their practice and profession.

**Additional Presenters:**
- Sami M.A. Chogle, B.D.S., D.D.S., M.S.D.
- Derek B. Nordeen, D.D.S.
- Tanya K. MacNick, D.D.S., M.S.
- Judy D. McIntyre, D.M.D.
- I. Emily Wang, D.M.D.
Oral Research Presentations IX

Graduate Student Section

Room 201 A/B


10 a.m.

A Quantitative Analysis of Propolis: A Promising Storage Media Following Avulsion

MARGARET J. MARTIN, D.M.D., M.S. (Presenter)

R. PILEGGI, University of Texas at Houston

10:15 a.m.

In Vitro Effect of Three Calcium Hydroxide Formulations on Root Dentin pH

MAYANK D. VORA, D.D.S., M.S. (Presenter)

C.S. WENCKUS, B.R. JOHNSON, E.A. BEGOLE, R. PRESCOTT, University of Illinois at Chicago

10:30 a.m.

Cardiovascular Effects and Efficacy of a Hemostatic Agent in Periradicular Surgery

CHRISTINA H. YI, D.M.D. (Presenter)

Oregon Health & Science University

This session will not be recorded.

10:45 a.m.

Antibiotic Disinfection of Immature Teeth With Apical Periodontitis

WILLIAM C. WINDLEY III, D.D.S. (Presenter)

F. TEXEIRA, M. TROPE, University of North Carolina and State University of Campinas, Sao Paulo, Brazil

11 a.m.

Monomer Conversion of Core Buildup Materials

SAMUEL J. MUMPPOWER, D.M.D. (Presenter)

W.E. CAUGHMAN, E.A. KREGGER, R.J. LOUSHINE, Medical College of Georgia

11:15 a.m.

Prevalence of Candida in Infected Root Canals of HIV-Positive Patients

LAUREN TV. PHAN, D.D.S. (Presenter)

E. HALPERN, B.B. JOHNSON, L. TAO, M. AVES, E.A. BEGOLE, M. BAKER, D. HALPERN, University of Illinois at Chicago

Oral Research Presentations X

Endodontist Section

Room 201 C/D


10 a.m.

Coaggregation of Bacteria Associated With Acute Endodontic Infections

J. CRAIG BAUMGARTNER, D.D.S., M.S., PHD. (Presenter)

S. KHEMALEELAKUL, S. PRIUKSAKORN, Oregon Health & Science University and Chiang Mai University, Thailand

10:15 a.m.

Cytomegalovirus Infection in Symptomatic Periapical Pathosis

MOHAMMAD A. SABETI, D.D.S. (Presenter)

J. SLOTS, H. NOWZARI, University of Southern California

10:30 a.m.

Direct Contact Between Enamel Matrix Derivative and Osteoblasts Is Not Required for EMD-Induced Cell Proliferation

Qiang ZHU, D.D.S., PHD. (Presenter)

J. HE, K.E. SAID, I.S. STÅNGBERG, University of Connecticut and Baylor College of Dentistry

10:45 a.m.

A Preliminary Case-Control Analysis of Periradicular Healing in Type 2 Diabetics

ASHRAF F. FOUAD, B.D.S., D.D.S., M.S. (Presenter)

M. LUDLOW, I. STÅNGBERG, Q. ZHU, J. BURLESON, E. TOMASI, University of Connecticut

11 a.m.

Intracoronal Sealing Comparison of Mineral Trioxide Aggregate and Glass Ionomer

KEFAH M. BARRESHI, D.D.S., M.S. (Presenter)

H.M. HAMMAD, Kuwait University, Kuwait, and Jordan University of Science & Technology, Irbid, Jordan

11:15 a.m.

Effect of Root Canal Sealers on the Repair of Inflamed Periapical Tissue

TILL DAMMASCHE, D.M.D. (Presenter)

U.J. SCHNEIDER, U. STRATMANN, J. YOO, E. SCHAFER, Westfälische Wilhelms-Universitaet, Muenster, Germany
S-210 Cleaning and Shaping Using Nickel-Titanium Redefined: The Pathway to Perfection in Root Canal Preparation
Room 204


Revised cleaning and shaping objectives based on essential, but often forgotten, biological principles will be presented. The rationale and techniques for incorporation of these objectives will be discussed based on the latest scientific research and literature. A live demonstration will enable participants to recognize the effects of different nickel-titanium instruments on root canal anatomy.

At conclusion, participants should be able to:
- Recognize the need to implement an evidence-based philosophy for canal preparation.
- Identify the merits and limitations of existing instrumentation techniques.
- Clinically incorporate information from scientific research to understand and achieve redefined cleaning and shaping objectives.

This session will not be recorded.

A-212 HIPAA Basics and New CDC Infection Control Guidelines
Room 206

MODERATOR: DEBORAH S. BISHOP, D.M.D., Huntsville, Ala.

This session will discuss how HIPAA privacy compliance changes traditional communication in the endodontic practice, including the privacy of patient charts, team communications and patient treatment discussions. Attendees will learn how to prevent the five most frequent “HIPAA No-No’s.” Recommended Infection Control Practices for Dentistry, 2003, published by the Centers for Disease Control and Prevention, will be presented, as well as how these changes affect your endodontic infection control program.

At conclusion, participants should be able to:
- Describe proper communication for protected health information during clinical treatment.
- Identify the potential for disease transmission in endodontics.
- Describe endodontic applications of the new CDC infection control recommendations.

S-213 Advances in Endodontic Microbiology
Room 207 A/B


This presentation will focus on microbial causation of periradicular diseases and the advances in methods for microbial identification in light of new information provided by molecular studies. Different types of endodontic infections will be defined, and new presumed pathogens, including unculturable bacteria, will be presented. Advantages and limitations of molecular methods and the results of studies using these methods for microbial identification in different forms of periradicular diseases will be shown.

At conclusion, participants should be able to:
- Describe microbial causation of different forms of periradicular diseases.
- Identify the major putative endodontic pathogens and their particular involvement with symptomatic and persistent endodontic infections.
- Identify the requirements for a given microbial species to be regarded as endodontic pathogens.
S-214 Radicular Lesions Simulating Inflammatory Disease: The Case for Routine Biopsy Submission  
ROOM 207 C/D  
MODERATOR: LYNNE A. BALDASSARI-CRUZ, D.D.S., MENLO PARK, CALIF.

This profusely illustrated course will demonstrate examples of the many forms of disease that may simulate common inflammatory processes. Examples of benign and malignant tumors, systemic diseases, specific infections and other examples culled from over 35 years as an oral and maxillofacial pathologist will be presented. A case will be made for routine submission of surgical specimens for pathologic diagnosis.

At conclusion, participants should be able to:
- Identify the value of obtaining a definitive pathologic diagnosis for tissues removed during apical surgical procedures.
- Explain why clinical impressions and expectations are not always congruent with the actual disease process producing the patient’s problem.
- Develop practice criteria, in consonance with the AAE’s Guide to Clinical Endodontics, governing submission of surgical specimens to oral and maxillofacial pathologists for diagnosis.

S-216 Incorporating PowerPoint® into Treatment Plans  
ROOM 303 B  
MODERATOR: W. CRAIG NOBLETT, D.D.S., M.S., BERKELEY, CALIF.

This session will provide both doctors and staff with limited knowledge of PowerPoint® and Photoshop® software with effective practical skills in using a range of features. These skills will enable participants to maximize effectiveness in slide production through set up, understanding the importance of resolution and suggestions on how to create color backgrounds. These presentations can be used with patients to show before and after slides, and to outline treatment plans.

At conclusion, participants should be able to:
- Describe the capabilities of Microsoft PowerPoint® and Adobe Photoshop® software to enhance treatment planning.
- Describe the qualities of effective presentations.
- Edit photos to improve the impact of the presentation.

Oral Research Presentations XI  
Graduate Student Section  
ROOM 201 A/B  
MODERATOR: JEFFREY P. LILLY, D.D.S., WEST DES MOINES, IOWA

1:30 p.m.
Nickel Titanium Rotary File Breakage in a Dental School Simulation
KAMEN I. GENOV, D.D.S. (PRESIDENT)
P.M. DI FIORE, E.W. BREMER, T.P. LAMMOT, P.A. ROSENBERG, NEW YORK UNIVERSITY

1:45 p.m.
Comparison of Generated Forces and Apical Microleakage Using Nickel-Titanium and Stainless-Steel Spreaders
SAMAN R. GHARAL, D.D.S., M.S. (PRESIDENT)
J.R. THORPE, J.M. STROTHE, S.B. MCCLANAHAN, NAVAL POSTGRADUATE DENTAL SCHOOL, BETHESDA, MD

2 p.m.
Comparison of 2 Different Direct Digital Radiography Systems for the Ability to Detect Artificially Prepared Periapical Lesions
ROBERT B. FOLK, D.D.S. (PRESIDENT)
J.R. THORPE, S.B. MCCLANAHAN, J.D. JOHNSON, J.M. STROTHE, NAVAL POSTGRADUATE DENTAL SCHOOL, BETHESDA, MD
2:15 p.m.
Utilization of Computer and Digital Technology by General Practitioners and Endodontists: A Survey
W. Seth Stewart, D.M.D. (Presenter)
R.J. Loushine, R.N. Weller, J.L. Waller, Medical College of Georgia

2:30 p.m.
Lifetime Prediction of NiTi Rotary Instruments: A Materials Engineering Analysis
Jeremy M. Young, D.D.S. (Presenter)
K.J. VanVliet, Harvard School of Dental Medicine and Massachusetts Institute of Technology, Cambridge, MA

Oral Research Presentations XII
Endodontist Section
Room 201 C/D

1:30 p.m.
Lateral Canals in the Palatal Root of Maxillary First Molars
Rory E. Mortman, D.D.S. (Presenter)
S. Ahn, Palm Beach County Dental Research Clinic, West Palm Beach, FL

1:45 p.m.
Reliability of Electronic Apex Locators to Determine Working Length With Different Instrument Sizes
Benjamin Briseño Marroquín, D.D.S. (Presenter)
S. Hetzel, B. Willershausen, University of Mainz, Germany

2 p.m.
Mechanical and Microscopic Evaluation of NiTi Files After Clinical Use
Gianluca Gambarini, D.D.S. (Presenter)
University of Rome, Italy

2:15 p.m.
Fractographic Studies of Nickel-Titanium Rotary Files
Timothy A. Svec, D.D.S., M.S. (Presenter)
W.A. Brantley, S.B. Alapat, J.M. Nusstein, G.E. Dehn, J.M. Powers, University of Texas at Houston and Ohio State University

2:30 p.m.
Root Canal Preparation With Ultradent Endo-Eze: Remaining Dentin Thickness Assessed by Micro-Computed Tomography
Frank Paciò, D.M.D. (Presenter)
E. Barabakow, O.A. Peters, University of Zürich

2:45 p.m.
Effects That Variations of Carrier Penetration Have on Adaptation of Thermoplastized Gutta-Percha
Marc E. Levitan, D.D.S. (Presenter)
J.B. Luckey, V.T. Hemel, University of Tennessee, Memphis

3:30-5 p.m.
S-210 continued Cleaning and Shaping Using Nickel-Titanium Redefined: The Pathway to Perfection In Root Canal Preparation
Room 204
Manish Garala, B.D.S., M.S.
Houston, Texas
Sergio Kuttler, B.S., D.D.S.
Pt. Lauderdale, Fla.
Rigoberto Perez, D.D.S.
Acapulco, Mexico
Moderator: John T. McPadden, D.D.S.
Lookout Mountain, Ga.
See page 35 for a complete session synopsis.

A-211 continued Patients Will Love You if You Can Solve Their Pathologic Mysteries
Room 205
Ken R. Tilashalski, D.M.D.
Birmingham, Ala.
Moderator: Cindy R. Rauschenberger, D.D.S., M.S.
Elgin, Ill.
See page 35 for a complete session synopsis.

A-212 continued HIPAA Basics and New CDC Infection Control Guidelines
Room 206
Jackie Dorst, R.D.H., B.S.
San Clemente, Calif.
Moderator: Deborah S. Bishop, D.M.D.
Huntsville, Ala.
See page 35 for a complete session synopsis.

S-215 continued Taking In or Becoming an Associate or Partner
Room 303 A
Bernard B. Fink, B.A., D.D.S.
Fairfax, Va.
Moderator: Gerald C. Dietz, Sr., D.D.S., M.S.
Bloomfield Hills, Mich.
See page 36 for a complete session synopsis.
S-217 Root-end Filling  Room 207 A/B
MODERATOR: CHRISTOPHER S. WENCKUS, D.D.S., CHICAGO, ILL.
This presentation will review the historical choice of root-end filling materials in surgical endodontics. The handling and the physical, chemical and biological properties of the materials will be evaluated, and the outcome of clinical studies will be reviewed. A rational choice of material for current practice will be presented.

At conclusion, participants should be able to:
- Identify the desirable properties of a root-end filling material.
- Select a root-end filling material for clinical usage.
- Describe the scientific evidence for material selection.

S-218 The Clinical Utilization of YSGG Technology in Endodontics  Room 207 C/D
MODERATOR: SAMUEL O. DORN, D.D.S., FT. LAUDERDALE, FLA.
This presentation will provide an overview of the state-of-the-art technology of the YSGG laser with a wavelength that has been marketed under FDA guidelines for use with hard and soft tissue. Highlights include a discussion of an SEM evidence-based study. Participants will learn about the laser’s hydrokinetic system in performing a pulpotomy, accessing teeth, cleaning, shaping and disinfecting, as well as in root-end resections. A description of the proper settings of power, air and water will supply detailed information.

At conclusion, participants should be able to:
- Describe the technology used in the operation of the YSGG laser.
- Describe the use of the YSGG laser in various endodontic procedures.
- Describe why the YSGG laser is another modality to be included within our existing endodontic armamentarium.

S-219 Adding Creativity to PowerPoint®
Room 303 B
MODERATOR: W. CRAIG NOBLETT, D.D.S., M.S., BERKELEY, CALIF.
This session will enable doctors who are familiar with PowerPoint® features to learn how to effectively incorporate graphics, audio and video into their presentations. Participants will discover how to create and modify custom animation, and create templates for professional quality title slides to convey information that will captivate the audience. Three PowerPoint® shortcuts will be shared in order to minimize time needed to build a presentation.

At conclusion, participants should be able to:
- Describe how to enhance presentations with graphics, audio, video and animation.
- Demonstrate advanced PowerPoint® techniques to create captivating templates.
- Describe how to decrease production time when building a presentation.
S-220  Testing the Limits of Endodontic Therapy  Room 201 C/D

All endodontists have taken cases that will never be forgotten. Either the patient, the difficulty or the circumstances made a particular case memorable. Eight 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 patients. Participants will more than likely face somewhat similar situations, though the chances of seeing any of these exact cases may be remote. The attendees should leave 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 therapy to meet a patients’ desire to keep their teeth.

At conclusion, participants should be able to:

- Evaluate the rationales for treating difficult cases.
- Identify the healing potential of patients who want to keep their teeth for a lifetime.
- Describe how to respond to similar cases in their practices with confidence.

Additional Presenters:

- Paul V. Abbott, M.D.S.
- J. Craig Baumgartner, D.D.S., M.S., Ph.D.
- L. Stephen Buchanan, D.D.S.
- Marshall D. Pickoff, D.M.D., M.S.D.
- Kenneth J. Spolnik, D.D.S., M.S.D.
- Calvin D. Tornick, D.D.S., M.S.
- Julian Webber, B.D.S., M.S.

This session will not be recorded.
**Poster Research Presentations**

**Endodontist Section**

**Hall A**

(*Denotes Dental Student*)

**PR 36**
Smear Layer Removal by Chlorhexidine: A Comparative Scanning Electron Microscopy Study
Bettina R. Basrani, D.D.S., M.S.D., Ph.D.
Halifax, Canada

**PR 37**
Expression of LPS Receptors in Mouse Dental Pulp Cells
Tatiana M. Botero, D.D.S., M.S.
Ann Arbor, MI

**PR 38**
Biomineralizing Potential of White MTA: An *In Vitro* Study
Ricardo Cazedo, D.D.S.
New Orleans, LA

**PR 39**
Evaluation of a 3-Dimensional Computer Model of Root Canals
Chia-Yi Chen, D.D.S.
New York, NY

**PR 40**
Efficiency of Root Canal Preparation by Newly Designed Nickel-Titanium Rotary Files
Arata Ebihara, D.D.S., Ph.D.
Tokyo, Japan

**PR 41**
Relations Between Incidence of Black-Pigmented Anaerobic Rods and Clinical Symptoms on Traumatic Nonvital Teeth
Nobuyasu Hosoya, D.M.D., Ph.D.
Yokohama, Japan

**PR 42**
The Effects of Sterilization on Endodontic Files
Miri Kim, D.D.S., Ph.D.
Seoul, Korea

**PR 43**
Effect of Epinephrine-Containing Local Anesthetics on Pulpal Blood Flow in Mechanically Stimulated Teeth
Sung-Kyo Kim, D.D.S., M.S.D., Ph.D.
Daegu, Korea

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**PR 44**
Evaluation of Autotransplanted Third Molars With Endodontic Treatment
Yoshifumi Kinomoto, D.D.S., Ph.D.
Osaka, Japan

**PR 45**
Durability of the Nickel-Titanium File in Curved Canals
Chihiro Kobayashi, D.D.S., Ph.D.
Tokyo, Japan

**PR 46**
Pulpal Disease Secondary to Intracoronal Restoration Placement
**Mr. Jason Lambert**
University of North Carolina

**PR 47**
Evaluation of Canal Shapes During Instrumentation With Profiles .04 and Lightspeed Using Micro-CT
Woo-Jin Lee, D.D.S.
Seoul, Korea

**PR 48**
Effects of Various pH Environments on the Hydration Behavior of Mineral Trioxide Aggregate
Yuan-Ling Lee, D.D.S., M.D.S.
Taipei, Taiwan

**PR 49**
Oral Enterococci in Subjects With and Without a History of Endodontic Treatment
**Ms. Sarah Lennan**
University of Michigan

**PR 50**
*In Vitro* Study of Dentin Hypersensitivity Treated by a Modified Bioglass and Nd:YAP Laser
Chun-Fin Lin, D.D.S., M.S., Ph.D.
Taipei, Taiwan

**PR 51**
Thermographic Assessment of the Temperature Rise on the Outer Surface of Roots During Filling With SuccessFil or Hybrid Technique
Mariusz P. Lipski, D.D.S., Ph.D.
Szczecin, Poland
Table Clinics
Endodontist Section
Hall A

TC 30
MTA Repair of Lingual Groove in C-Shaped Canal Tooth During Replantation
WOOCHOL LEE, D.D.S.
Seoul, Korea

TC 31
The Use of MTA in a Furca Perforation of a First Mandibular Molar With Alveolar Bone Breakdown
BORJA ZABALEGUI, D.D.S., AND JOSE M. MALFAZ, D.D.S., M.D., PH.D.
Bilbao, Spain and Valladolid, Spain
W-2  **Endodontic Retreatment: A Hands-On Workshop**  
Room 303 C/D

This hands-on workshop will utilize video presentations and demonstrations of techniques used during endodontic retreatment procedures. Topics will include separated instrument removal, removal of carrier-based obturators, post removal, perforation repair and location of previously untreated canals. Participants will have an opportunity to perform some of these procedures on prepared, extracted teeth.

At conclusion, participants should be able to:
- Identify the possibilities and limitations of endodontic retreatment.
- Apply the material presented in clinical practice.
- Describe how iatrogenic errors occur and ways to prevent them from occurring.

*Please note:* This workshop required registration in advance.

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S-300  **Successful Grant Writing**  
Room 201 A/B

Whether you are a resident, teacher or practitioner, your academic career and practice philosophy are influenced by endodontic research. This presentation will focus on the necessary precursor to endodontic research: how to prepare successful grant applications. This lecture is a practical overview of successful techniques for preparing AAE Foundation and National Institute of Health grants. After a review of basic “grantsmanship” issues, the presentation will give examples of both AAE Foundation and NIH grants with study section critiques.

At the conclusion, participants should be able to:
- Identify the key strategies in preparing a successful grant.
- Develop grant proposals that use these strategies for a specific research project.
- Revise grant applications following study section comments.

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S-301  **Basic Computer Education—Let’s Talk About What You Thought You Knew!**  
Room 201 C/D

How much do you really know about computers? This course will provide a basic understanding of computers, how they work, how networks operate, how they “talk” to printers and many other valuable pieces of information. Criteria for purchasing new information technology equipment will also be discussed.

At conclusion, participants should be able to:
- Describe how computers work.
- Describe how computers communicate.
- Identify what to look for when purchasing computer equipment and learn a vocabulary that will enable effective communication with vendors and support personnel.
S-302  A New Bonded Resin Material for Filling the Root Canal  Room 204  
MODERATOR: ASGEIR SIGURDSSON, D.D.S., M.S., Chapel Hill, N.C.  
The aim of a root canal filling material is to seal in remaining bacteria or prevent further bacterial invasion in the canal. A new thermoplastic resin bonding material with all the properties of gutta-percha but with vastly superior sealing abilities has been developed for filling the root canal. When used, the root is strengthened. This lecture will outline the biological requirements for successful endodontics and the shortcomings of gutta-percha, and will discuss the improvements offered by thermoplasticized resin.  
At conclusion, participants should be able to:  
- Describe the importance of optimal filling of the canal.  
- Identify the shortcomings of gutta-percha fills.  
- Identify the advantages of thermoplasticized resin as a filling material.

S-303  Transparent Sections: A Method for Teaching and Research  Room 205  
MODERATOR: WALTER R. BOWLES, D.D.S., M.S., Minneapolis, Minn.  
Transparent sections of teeth without decalcification allow observation of normal endodontic procedures and a greater understanding of many clinical situations. Participants can see how the instruments shape the real canals with complex canal anatomies, how irrigants work on the pulp and how gutta-percha penetrates the endodontic anatomy.  
At conclusion, participants should be able to:  
- Describe the method of creating transparent sections and the use of coloring to outline the various tissues present in the tooth.  
- Describe the action of endodontic instruments inside canals with different anatomical complexities.  
- Simulate such complex clinical situations as calcified canals, broken instruments, ledges, etc., using this technique, in order to select proper instrumentation to manage these cases.

A-304  Referral-Based Marketing: What Really Works  Room 206  
MODERATOR: DEBORAH S. BISHOR, D.M.D., Huntsville, Ala.  
Marketing is finding out what your patients and referring doctors want, and then giving it to them. The secret is determining what your customers deeply value and matching it with what you do best and most profitably. It is no secret that patients and referring doctors judge your office on a continuing basis, so a consistent focus is critical. This lecture will examine the role of the endodontic office team in defining objectives and understanding the relationship between the value of services provided, satisfaction and loyalty.  
At conclusion, participants should be able to:  
- Create a strategic marketing plan to define objectives.  
- Describe how satisfaction is driven by the perceived value of services provided.  
- Describe how to consistently generate loyalty among your referring doctors and patients.
S-305  Educators Forum: Accreditation Standards for Advanced Specialty Education Programs in Endodontics  Room 201 A/B

JAMES K. BAHCALL, D.M.D., M.S., Milwaukee, Wis.

This session will provide interested parties with an overview of the accreditation process of the ADA Commission on Dental Accreditation. The standards for advanced specialty education programs in endodontics will be presented with the proposed revisions, which are scheduled to be forwarded to the Commission on Dental Accreditation for implementation. Open discussion among the attendees will follow.

At conclusion, participants should be able to:
- Describe the accreditation process and the role of standards.
- Compare the current and proposed standards.
- Assess the value of the proposed standards revisions.

Additional Presenters:
LEIF K. BAKLAND, D.D.S.
BILLY G. JEANSONNE, D.D.S., PH.D.
JOEL L. DUNSKY, D.D.S.
WILLIAM A. WALKER III, D.D.S.

The Endodontic Section of the American Dental Education Association will conduct a 15-minute business meeting at the beginning of this session.

S-306  Oral Facial Pain  Room 201 C/D

BRADLEY A. ELL, D.M.D., M.S., Encinitas, Calif.

This program will specifically focus on the basics of oral facial pain by reviewing typical presenting symptoms and defining the subtle differences between patients who suffer with pain of odontogenic origins and those with nonodontogenic pain.

At conclusion, participants should be able to:
- Describe the difference between pain, suffering and nociception.
- Expand their knowledge regarding pain and differential diagnoses.
- Identify the basic treatment alternatives for patients with nonodontogenic pain.

S-307  Nonsurgical Root Canal Treatment  Room 204

CLIFFORD J. RIDDLE, D.D.S.
Santa Barbara, Calif.

Properly performed endodontic treatment is the foundation of restorative and reconstructive dentistry. However, clinicians frequently encounter endodontically treated teeth that are failing. The majority of these cases can be predictably retreated nonsurgically. This lecture will utilize innovative technologies, perform specific procedures and clearly demonstrate how to manage certain retreatment challenges in real time utilizing extracted teeth. This presentation will focus on the step-by-step techniques that may be utilized to guide each case to successful completion.

At conclusion, participants should be able to:
- Identify the best methods for eliminating posts, cores and broken instruments.
- Perform effective techniques for removing silver points and carrier-based obturators.
- Utilize “microsonic” procedures to refine access cavities and locate missed canals.

This session will not be recorded.

S-308  Third-Party Reimbursement Issues and CDT-4 Insurance Coding Workshop  Room 205

CHARLES L. STEFFEL, D.D.S., M.A.D.
Indianapolis, Ind.

This presentation will highlight the new AAE Dental Benefits Kit. The Kit includes sample letters and suggestions for working with third-party payers. Topics to be discussed include an update on the new CDT-4 codes that may be useful in endodontic practices, as well as a review of insurance coding for common endodontic scenarios. Methods will include a slide presentation, handouts and an extensive question-and-answer coding workshop.

At conclusion, participants should be able to:
- Describe the new CDT-4 codes useful for endodontic practices.
- Identify where to find information to accurately code common endodontic treatment scenarios and unusual procedures.
- Describe how the new Dental Benefits Kit will assist members with third-party reimbursement issues.

This session will not be recorded.
S-309  Pain, Anxiety and Dentistry  Room 206  Moderator: Alexandre A.P. Fleury, D.D.S., M.S.

The management of pain and anxiety forms the backbone of contemporary dentistry. Past decades have seen the introduction of a significant number of new techniques, drugs and equipment designed to aid in the quest for a more fear-free and pain-free dental practice. This presentation will discuss these advances and their possible application in endodontics, including pain and anxiety control, management of fear through oral and inhalation sedation and management of pain through local anesthesia using drugs and mandibular/maxillary techniques for ultimate success and patient safety.

At conclusion, participants should be able to:

- Describe conscious sedation techniques.
- Describe the appropriate use of local anesthetics.
- Describe mandibular, maxillary and alternative anesthetic techniques.

S-311  Defining “Standards of Care” in Endodontics  Room 303 A/B

The legal framework within which reasonable endodontic care is evaluated is known as the standard of care. This presentation will establish who sets the standards of care—the AAE, the practicing community or the legal profession. Do standards of care change or are they firmly established based upon what is reasonable and customary? Is silver point obturation within the standard of care; is the use of microscopy a standard of care? Rapid advances in technology have put endodontic practice in a legal state of flux. This controversial panel presentation will focus on endodontic standards of care from a legal and practitioner perspective, highlighting the critical standards in endodontics and relating them to contemporary practice. Interesting cases in which the presenters have served as expert witnesses will be presented. Point-counterpoint approaches will be used to determine what has been, what is and what may be standards of care in endodontics.

At conclusion, participants should be able to:

- Define standards of care in endodontic practice.
- Describe the legal ramifications of customary practice and remaining current.
- Reduce risk of legal entanglements.

This session will not be recorded.

S-310  Bring Back the Fun and Profitability in Practice  Room 207  Moderator: Terryl A. Propper, D.D.S., M.S.

This program, for endodontists and staff alike, will address how to write a new stress-free office story that brings back the fun in practice while moving to the next level in practice profitability. Topics to be discussed will include developing effective office systems, improving office communications and stress-free scheduling.

At conclusion, each participant should be able to:

- Write a fun and effective office vision.
- Identify the leadership skills needed to obtain and empower an incredible team to reduce office stress that can lead to working fewer days while increasing profitability.
- Improve office communication and reduce interoffice personal conflicts.

3:30-5 p.m.

See page 44 for a complete session synopsis.

S-309 continued  Pain, Anxiety and Dentistry  Room 206

See this page for a complete session synopsis.
S-310 continued Bring Back the Fun and Profitability in Practice Room 207
ALBERT C. GOERIG, D.D.S., M.S.
Olympia, Wash.
MODERATOR TERRY A. PROPPER, D.D.S., M.S.
Brentwood, Tenn.
See page 45 for a complete session synopsis.

S-311 continued Defining “Standards of Care” in Endodontics Room 303 A/B
STEPHEN COHEN, M.A., D.D.S.
San Francisco, Calif.
GERALD N. GLICKMAN, D.D.S., M.S., J.D.
Dallas, Texas
STEPHENV. SCHWARTZ, D.D.S., M.S.
Houston, Texas
BRUCE H. SEIDBERG, D.D.S., J.D.
Syracuse, N.Y.
See page 45 for a complete session synopsis.

S-312 No Darkroom, No Charts and No Filing Cabinets? Room 201 A/B
MODERATOR G. GARO CHALIAN, D.D.S., M.S.
Aurora, Colo.
This course will demonstrate how to go completely digital in all facets of the practice from radiography and imaging, to charting, to the administrative and business aspects of running a dental practice and your life. This presentation will explain the strategies required to assemble a variety of technologies available from the dental industry to completely eliminate the management and storage of paper and film. Participants will experience the reality that a dental practice, including radiographs, charts, health history, supply orders and more, can be managed digitally.

At conclusion, participants should be able to:
- Build a reliable, redundant, secure computer infrastructure and network.
- Identify the dental vendors for the digital endodontic record.
- Identify methods to blend your digital radiographs and digital images from a variety of sources to make stunning case reports in less than two minutes.

S-313 Endodontic Surgery With the YSGG Laser Room 201 C/D
MODERATOR ANTHONY P. JOYCE, D.D.S.
Evans, Ga.
This course will provide a thorough description of how the YSGG laser works, indications for use and the technique for use in endodontic surgery throughout the oral cavity and associated detail anatomy and healing. Problems and contraindications will also be covered.

At conclusion, participants should be able to:
- List indications and contraindications for using the YSGG laser.
- Describe the surgical procedures for endodontic surgery with the YSGG laser in all areas of the oral cavity.
- Describe the anatomy and healing associated with endodontic surgery performed with the YSGG laser.

S-314 The Working Dimension: Working Length and Working Diameter Room 205
MODERATOR RAPHAEL R. GAROFALO, E.S.C., D.D.S.
Montreal, Quebec, Canada
Endodontic success requires accurate cleaning, shaping and obturating of the canals. Determining both the optimal working dimension and length of the individual canals is key; yet little research exists to define either. This presentation will focus on developing a working dimension—a concept that includes both working length and working diameter and will provide a literature review, philosophical backgrounds and updates on the current working dimension study with 3-D models by Harvard University, Stanford University and NASA.

At conclusion, participants should be able to:
- Describe the current philosophies of working length and working diameter determination.
- Describe the concept of working dimension in concert with the most current research results.
- Integrate the working dimension concept into their current clinical practices.
### Exhibit Hall Floor Plan

#### 2004 Exhibit Hall Schedule

**Thursday, May 6**  
10 a.m. - 6 p.m.

**Friday, May 7**  
8 a.m. - 6 p.m.

**Saturday, May 8**  
8 a.m. - 1 p.m.

---

### Exhibitors & Booth #

#### Thursday, May 6

- **Exhibitors**
  - Aesthetic........................................................................ 613
  - ASI Medical.................................................................. 651
  - Biolase Technology.................................................. 133
  - Blackwell-Munksgaard Reg. Area............................... 414
  - Braseo USA .................................................................. 251
  - CAMSight Company................................................... 451
  - Carl Zeiss Surgical.................................................... 301
  - Centrix......................................................................... 412
  - Citi Health Card......................................................... 810
  - CK Dental Specialties............................................... 134
  - Colab/Whaledent........................................................ 414
  - Dentsply Gendex.......................................................... 601
  - Dentsply International................................................ 501, 601
  - Dentsply Maillefer.................................................... 601
  - Dentsply Professional................................................ 501
  - Dentsply Rinn/APL..................................................... 601
  - Dentsply Tulsa ............................................................ 501
  - Designs for Vision....................................................... 801
  - Dexis Digital X-Ray.................................................... 529
  - Diadent Group International...................................... 351
  - Discus Dental Software............................................. 119
  - Dogbreath Software.................................................... 733
  - Endo Shopper ................................................................ 509
  - Endo Solutions ........................................................ 120
  - EndoTechnic............................................................... 314
  - EndoTrak ..................................................................... 809
  - Endoco ......................................................................... 609
  - Endodontic Practice Journal...................................... 410
  - Endure Medical........................................................... 103
  - Essential Dental Systems.......................................... 720
  - Franklin Dental Supply.............................................. 533
  - Global Surgical........................................................... 401
  - Hartell & Son, G......................................................... 221
  - Health First................................................................. 209
  - HPSC Financial Services............................................ 213
  - Hu-Friedy Mfg............................................................. 621
  - IntraFlow by IntraVantage.......................................... 811
  - J. Morita U.S.A............................................................ 109
  - Jedmed Instrument...................................................... 201
  - Jordco ......................................................................... 610
  - Kalvo America............................................................. 814
  - Kilgore International................................................... 709
  - Kodak .......................................................................... 819
  - LexiComp Publishing.................................................. 714
  - LightSpeed Endodontics.............................................. 614
  - Lightyear Technology.................................................. 333
  - Lippincott, Williams & Wilkins Reg. Area.................. 209
  - Logan Dental.................................................................. 713
  - Mani ............................................................................ 612
  - Medidenta International............................................. 408
  - Meta Dental.................................................................. 129
  - Metalfit Crown & Bridge Removal.............................. 430
  - Microsurgery Instruments......................................... 118
  - Milestone Scientific.................................................... 311
  - MilTEX ........................................................................ 200

- **Exhibitors**
  - Moller Microscopes.................................................. 555
  - Mosby/Saunders/Churchill........................................ 528
  - Mustang Company..................................................... 855
  - NED Dental International.......................................... 710
  - Nephron Dental Supply.............................................. 706
  - Obtura/Spaun............................................................. 701
  - Officite ........................................................................ 106
  - Oral Pathology Associates........................................ 104
  - Orascope ..................................................................... 608
  - Palsades Dental.......................................................... 312
  - Patterson Dental Supply ............................................ 623
  - PBS Web Site Design................................................. 212
  - PBS Endo..................................................................... 715
  - Pearson Dental Supply.............................................. 711
  - Pentron Clinical Technologies..................................... 725
  - Planmeca................................................................. 225
  - Practice Works/Soft Dent/Trophy............................... 313
  - Practio/Laschal Surgical............................................ 211
  - Professional Results.................................................. 102
  - Quality Aspirators..................................................... 807
  - Quintessence Publishing............................................. 513
  - RGP Dental ................................................................. 729
  - Roendental Products................................................. 309
  - Satelec/Acteon............................................................ 320
  - Seiler Precision Microscopes..................................... 101
  - Septodont................................................................. 115
  - Sheervision .............................................................. 829
  - Sigma Biomedics....................................................... 128
  - SS White Burs............................................................ 829
  - Sullivan-Schein Dental............................................. 719
  - Sun Medical Imaging.................................................. 831
  - Surgitek/General Scientific....................................... 215
  - SybronEndo ............................................................... 409
  - Tel-A-Patient............................................................. 808
  - TeleVox Software....................................................... 825

#### Friday, May 7

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  - Schwed Co............................................................... 100
  - Seiler Precision Microscopes..................................... 101
  - Septodont ................................................................. 115
  - Sheervision .............................................................. 829
  - Sigma Biomedics....................................................... 128
  - SS White Burs............................................................ 829
  - Sullivan-Schein Dental............................................. 719
  - Sun Medical Imaging.................................................. 831
  - Surgitek/General Scientific....................................... 215
  - SybronEndo ............................................................... 409
  - Tel-A-Patient............................................................. 808
  - TeleVox Software....................................................... 825

#### Saturday, May 8

- **Exhibitors**
  - Treloar & Heisel Reg. Area.......................................... 231
  - Ultradent Products.................................................. 329
  - U.S. Jacledan........................................................... 112
  - U.S. Navy Recruiting................................................ 110
  - Vipersoft ................................................................. 821
  - Vista Dental Products................................................ 125
  - Visual Endodontics................................................... 712
  - Willamette Dental..................................................... 113
  - Xilam ................................................................. 812
  - Zinc ........................................................................... 310

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### Exhibit Hall Floor Plan Diagram

- **Exhibit Hall Floor Plan Diagram**
  - Entrance
  - Women
  - Men
  - AAE Oasis
  - Table Clinics
  - Poster Research Presentations

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This diagram illustrates the layout of the exhibit hall with designated sections for different categories of exhibitors and the schedule for each day's events. The diagram also highlights the locations of various software and dental supply companies participating in the exhibit.
Exhibitors, continued

Metalift Crown & Bridge Removal
7855 Jefferson Highway, Suite C
Baton Rouge, LA 70809
225/928-0799

Microsurgery Instruments
P.O. Box 1578
Bellaria, TX 77402
713/664-4707

Milestone Scientific
220 S. Orange St.
Livingston, NJ 07039
973/555-2717

Miltex, Inc.
589 Davies Drive
York, PA 17402
717/840-3478

Moller Microscopes
68 Marathon St.
Arlington, MA 02474
781/648-3938

Milestone Scientific
220 S. Orange St.
Livingston, NJ 07039
973/555-2717

Mosby/Saunders/Churchill
P.O. Box 1378
Bellaire, TX 77402
713/664-4707

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Vista Dental Products

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Instrumentation | Obturation | Endodontic Equipment | Ultrasonics & Retreatment | Expertise

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The American Association of Endodontists appreciates the cooperation of the following companies, which have generously supported the 2004 Annual Session. Please show your appreciation of their support by visiting their booths in the exhibit hall and/or contacting their representatives after the meeting.

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GE MEDICAL PROTECTIVE  
Silver Sponsor  
Residents Reception

**ASI MEDICAL, INC.**  
Notepads for Registration Bags
<table>
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<th>Past Presidents</th>
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<td>&quot;W. Clyde Davis   '43-44</td>
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<td>&quot;Ralph F. Sommer '44-45</td>
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<td>Samuel O. Dorn '02-03</td>
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### Edgar D. Coolidge Award

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### Louis I. Grossman Award

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<td>Louis I. Grossman</td>
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### I.B. Bender Lifetime Educator Award

<table>
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<tr>
<td>Gerald W. Harrington</td>
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<td>&quot;Raymond G. Luebke</td>
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<td>F. James Marshall</td>
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### Ralph F. Sommer Award

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<td>John I. Ingle</td>
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<td>Leif Tronstad</td>
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<td>Jens O. Andreasen</td>
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<td>&quot;I.B. Bender</td>
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<td>Goran Sundqvist</td>
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<td>Gunnar Bergenholtz</td>
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<td>Miomir Cvek</td>
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<td>Donna Mattscheck</td>
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<tr>
<td>Richard C. Burns</td>
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