Advocating for the Advancement of Endodontics

2005 Annual Session

April 6-9

Wyndham Anatole

Dallas, Texas

Final Program
The ultimate filling machine

The Elements Obturation Unit™ combines System B™ technology with a motor-driven extruder handpiece to make obturation predictable, efficient and accurate. From downpack to backfill, the Elements Obturation Unit puts the Continuous Wave of Condensation™* technique into one simple-to-operate device that takes up only 1/3 the space of two separate machines. For more information on the ultimate filling machine, call your authorized distributor or SybronEndo at 800.346.ENDO. Visit us online at www.SybronEndo.com.

*The phrase “Continuous Wave of Condensation” is a trademark of Dr. L. Stephen Buchanan.
This past year has focused on Advocating for the Advancement of Endodontics—within the profession of dentistry, our own specialty, local, national and international communities, and even among ourselves. The movement continues here in Dallas at the 2005 Annual Session. This year’s meeting will provide everyone with the opportunity to advance their success and that of the specialty through an invigorating educational program, exciting special events and stimulating discussion with peers that will spark new ideas and provide avenues for “thinking outside the box.”

In order to enhance the value of the educational program, the 2005 Annual Session Planning Committee, led by Drs. William T. Johnson and Jeffrey W. Hutter, structured the sessions into several tracks presented by the top speakers in those areas. Each track covers a topic that is at the forefront of the specialty—surgery, trauma, pain control, implantology and practice management. There is something for everyone; a special track on auxiliary topics has been prepared just for the office staff, while all attendees can glean a wealth of information from the presentations. Continuing what has become an ongoing special service for our international members, the Pre-Session Symposium and sessions in the Surgery track will be translated from English into Japanese, Portuguese and Spanish.

The exhibit hall is brimming with activity, including our long-time exhibitors and many vendors who are new to the Annual Session—this is a great opportunity to evaluate products and services in which you have an interest. Be sure to visit the Oasis member services area, which features a special display about our Endodontists: the root canal specialists public awareness campaign, information about the AAE’s new, grassroots Step Up! program for those interested in volunteerism and advocacy, as well as the premier of our Educator Center.

Another significant change to this year’s program is our luncheon line-up, which has been organized to make the most of these midday meals. Be sure to attend the Louis I. Grossman Memorial Luncheon on Thursday to recognize members who have achieved Diplomate status, vote at the Association’s annual business meeting during Friday’s General Assembly Luncheon, and honor our award recipients at the Edgar D. Coolidge Luncheon on Saturday. There has, of course, also been some time set aside to kick back, relax and even do some boot-scootin’ at our special events. I am looking forward to seeing everyone enjoy themselves at the evening activities, including the Welcome Reception, alumni and affiliate functions, Celebrate Dallas! and the final evening’s President’s Dinner.

On behalf of everyone who has made this meeting possible, especially the 2005 Annual Session Planning Committee, the Board of Directors, the Continuing Education Committee and AAE staff, I welcome you to Dallas and the 2005 Annual Session of the American Association of Endodontists. May this meeting be the start of a reinvigorated, courageous promotion of our great specialty!

Love Y’all,

Sandra Madison, D.D.S., M.S.
President
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- **Oral and Poster Presentations and Table Clinics Liaison**
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  Baltimore, Md.
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Effective root canal therapy starts with BioPure™ MTAD™ Cleanser. It is proven to remove the smear layer from the orifice to the apex – effectively clearing the way for its antibacterial action.¹

**TOUGHER ON BACTERIA. GENTLER ON DENTINAL STRUCTURE.²**

**WHEN USED AS DIRECTED, BIOPURE MTAD CLEANSER:**
- Kills the resistant bacterial strain *E. faecalis*
- Effectively removes smear layer, improving the penetration of medicaments and sealers
- More biocompatible than NaOCl
- Erodes less dentinal structure than EDTA
- Easily dispensed with a disposable syringe

¹ Mahmoud Torabinejad, DMD, MS, PhD, Yongbum Cho, DDS, MS, PhD, Abbas Ali Khademi, DMD, MS, Lei K. Bakland, DDS and Shahrokh Shabahang, DDS, MS, PhD. The Effect of Various Concentrations of Sodium Hypochlorite on the Ability of MTAD to Remove the Smear Layer. *Journal of Endodontics*, Vol. 29, No. 4, (2003), P. 233.


Images provided by Mahmoud Torabinejad, DMD. U.S. patents pending. ADBPMTADE 12/04C
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## Schedule At-A-Glance

All Annual Session activities will be conducted at the Wyndham Anatole unless otherwise noted. Please refer to the Educational Sessions portion of this program for session room assignments. All optional tours and activities depart from the Wyndham's Clock Tower Entrance.

### Tuesday, April 5

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 – 8 p.m.</td>
<td>Registration and Information</td>
<td>Tower Lobby</td>
</tr>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

### Wednesday, April 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 a.m. – 8 p.m.</td>
<td>Registration and Information</td>
<td>Tower Lobby</td>
</tr>
<tr>
<td>8 a.m. – 5 p.m.</td>
<td>Pre-Session Symposium</td>
<td>Trinity II</td>
</tr>
<tr>
<td></td>
<td>Endodontic Microsurgery Workshop</td>
<td>De Soto A/B</td>
</tr>
<tr>
<td>9 a.m. – 1:30 p.m.</td>
<td>Sixth Floor Museum and Dallas City Tour*</td>
<td></td>
</tr>
<tr>
<td>1 – 4 p.m.</td>
<td>Dallas City Tour*</td>
<td></td>
</tr>
<tr>
<td>1 – 4:30 p.m.</td>
<td>Dallas Women’s Museum and Texas Discovery Gardens*</td>
<td></td>
</tr>
<tr>
<td>6:30 – 8 p.m.</td>
<td>Welcome Reception</td>
<td>Anatole Park</td>
</tr>
<tr>
<td>6:30 – 8:30 p.m.</td>
<td>Alliance Silent Auction</td>
<td>Peacock Terrace</td>
</tr>
</tbody>
</table>

### Thursday, April 7

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 a.m. – 6 p.m.</td>
<td>Registration and Information</td>
<td>Tower Lobby</td>
</tr>
<tr>
<td></td>
<td>AAE Oasis Open</td>
<td>Trinity Foyer</td>
</tr>
<tr>
<td>8 – 10 a.m.</td>
<td>Opening Session</td>
<td>Trinity II</td>
</tr>
<tr>
<td>10 – 11 a.m.</td>
<td>District Caucuses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>I-Coronado A; II-Coronado B/C/D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>III-Cortez A; IV-Cortez B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>V-Cortez C/D; VI-Miro; VII-Chantilly East</td>
<td></td>
</tr>
<tr>
<td>10 a.m. – 6 p.m.</td>
<td>Exhibits Open</td>
<td>Trinity I</td>
</tr>
<tr>
<td>10:30 a.m. – noon</td>
<td>Oral Research Presentations</td>
<td>De La Salle and De Soto A/B</td>
</tr>
<tr>
<td>10:30 a.m. – 4 p.m.</td>
<td>Neiman Marcus and Galleria Shopping*</td>
<td></td>
</tr>
<tr>
<td>11 a.m. – noon</td>
<td>Affiliate Leadership Meeting</td>
<td>Cortez C/D</td>
</tr>
<tr>
<td>Noon – 1:30 p.m.</td>
<td>Louis I. Grossman Luncheon</td>
<td>Wedgewood</td>
</tr>
<tr>
<td>Noon – 4:30 p.m.</td>
<td>Sixth Floor Museum and Dallas City Tour*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grapevine and Delaney Vineyards Tour*</td>
<td></td>
</tr>
</tbody>
</table>

### Friday, April 8

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 a.m.</td>
<td>Fun Run</td>
<td>Anatole Park</td>
</tr>
<tr>
<td>7 – 8 a.m.</td>
<td>Continental Breakfast</td>
<td>Chantilly West</td>
</tr>
<tr>
<td>7 a.m. – 5 p.m.</td>
<td>Registration and Information</td>
<td>Tower Lobby</td>
</tr>
<tr>
<td></td>
<td>AAE Oasis Open</td>
<td>Trinity Foyer</td>
</tr>
<tr>
<td>8 – 9:30 a.m.</td>
<td>Educational Sessions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral Research Presentations</td>
<td>De La Salle and De Soto A/B</td>
</tr>
<tr>
<td>8 – 11:30 a.m.</td>
<td>Poster Research Presentations and Table Clinics</td>
<td>Trinity I</td>
</tr>
<tr>
<td>9 a.m. – noon</td>
<td>Sixth Floor Museum Tour *</td>
<td></td>
</tr>
<tr>
<td>9:30 – 10 a.m.</td>
<td>Networking Break</td>
<td>Trinity I</td>
</tr>
<tr>
<td>10 – 11:30 a.m.</td>
<td>Educational Sessions</td>
<td>De La Salle and De Soto A/B</td>
</tr>
<tr>
<td>10 a.m. – 3:30 p.m.</td>
<td>Exhibits Open</td>
<td>Trinity I</td>
</tr>
<tr>
<td>11 a.m. – noon</td>
<td>Highland Park Village Shopping*</td>
<td></td>
</tr>
<tr>
<td>Noon – 1:30 p.m.</td>
<td>General Assembly Luncheon</td>
<td></td>
</tr>
<tr>
<td>Noon – 4:30 p.m.</td>
<td>Sixth Floor Museum and Dallas City Tour*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grapevine and Delaney Vineyards Tour*</td>
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### Friday, April 8 (cont.)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 4:30 p.m.</td>
<td>Dallas Women’s Museum and Texas Discovery Gardens*</td>
</tr>
<tr>
<td>1:30 – 3 p.m.</td>
<td>Educational Sessions</td>
</tr>
<tr>
<td></td>
<td>Oral Research Presentations</td>
</tr>
<tr>
<td></td>
<td>De La Salle and De Soto A/B</td>
</tr>
<tr>
<td>3 – 3:30 p.m.</td>
<td>Networking Break</td>
</tr>
<tr>
<td></td>
<td>Trinity I</td>
</tr>
<tr>
<td>3:30 – 5 p.m.</td>
<td>Educational Sessions</td>
</tr>
<tr>
<td></td>
<td>Oral Research Presentations</td>
</tr>
<tr>
<td></td>
<td>De La Salle and De Soto A/B</td>
</tr>
<tr>
<td>7 p.m. – midnight</td>
<td>Celebrate Dallas!</td>
</tr>
<tr>
<td></td>
<td>Circle R Ranch</td>
</tr>
<tr>
<td>8 – 11:30 a.m.</td>
<td>Poster Research Presentations and Table Clinics</td>
</tr>
<tr>
<td></td>
<td>Trinity I</td>
</tr>
<tr>
<td>8 a.m. – 1 p.m.</td>
<td>Exhibits Open</td>
</tr>
<tr>
<td></td>
<td>Trinity I</td>
</tr>
<tr>
<td>9:30 – 9:45 a.m.</td>
<td>Networking Break</td>
</tr>
<tr>
<td></td>
<td>Trinity I</td>
</tr>
<tr>
<td>9:45 – 11:15 a.m.</td>
<td>Educational Sessions</td>
</tr>
<tr>
<td>10 a.m. – 1 p.m.</td>
<td>Sixth Floor Museum*</td>
</tr>
<tr>
<td>10 a.m. – 3:30 p.m.</td>
<td>Highland Park Village Shopping*</td>
</tr>
<tr>
<td>11:30 a.m. – 1:30 p.m.</td>
<td>Edgar D. Coolidge Luncheon</td>
</tr>
<tr>
<td></td>
<td>Trinity II</td>
</tr>
<tr>
<td>2 – 3:30 p.m.</td>
<td>Educational Sessions</td>
</tr>
<tr>
<td>7 – 8 p.m.</td>
<td>Pre-Dinner Reception</td>
</tr>
<tr>
<td>8 p.m. – midnight</td>
<td>President’s Dinner</td>
</tr>
<tr>
<td></td>
<td>Chantilly Foyer</td>
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</table>

### Saturday, April 9

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>7:30 – 8:30 a.m.</td>
<td>Continental Breakfast</td>
</tr>
<tr>
<td></td>
<td>Chantilly West</td>
</tr>
<tr>
<td>7:30 a.m. – 3:30 p.m.</td>
<td>Registration and Information</td>
</tr>
<tr>
<td></td>
<td>Tower Lobby</td>
</tr>
<tr>
<td></td>
<td>AAE Oasis Open</td>
</tr>
<tr>
<td></td>
<td>Trinity Foyer</td>
</tr>
<tr>
<td>8 – 11:30 a.m.</td>
<td>Poster Research Presentations and Table Clinics</td>
</tr>
<tr>
<td></td>
<td>Trinity I</td>
</tr>
<tr>
<td>8 a.m. – 1 p.m.</td>
<td>Exhibits Open</td>
</tr>
<tr>
<td>9:30 – 9:45 a.m.</td>
<td>Networking Break</td>
</tr>
<tr>
<td>9:45 – 11:15 a.m.</td>
<td>Educational Sessions</td>
</tr>
<tr>
<td>10 a.m. – 1 p.m.</td>
<td>Sixth Floor Museum*</td>
</tr>
<tr>
<td>10 a.m. – 3:30 p.m.</td>
<td>Highland Park Village Shopping*</td>
</tr>
<tr>
<td>11:30 a.m. – 1:30 p.m.</td>
<td>Edgar D. Coolidge Luncheon</td>
</tr>
<tr>
<td></td>
<td>Trinity II</td>
</tr>
<tr>
<td>2 – 3:30 p.m.</td>
<td>Educational Sessions</td>
</tr>
<tr>
<td>7 – 8 p.m.</td>
<td>Pre-Dinner Reception</td>
</tr>
<tr>
<td>8 p.m. – midnight</td>
<td>President’s Dinner</td>
</tr>
<tr>
<td></td>
<td>Chantilly Foyer</td>
</tr>
</tbody>
</table>

*optional tour*
General Information

AAE OASIS
This all-purpose membership services area located in the exhibit hall lobby is your one-stop shop for all things AAE. 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 answer your questions regarding membership benefits. The Oasis is the perfect place to pledge your support for the AAE Foundation and learn how to become a Diplomate from the American Board of Endodontics. This is also the place to review job postings on the AAE Career Opportunities Exchange Board and get a preview of the upcoming Fall Conference in Florida and next year’s Annual Session in Hawaii.

New this year to the Oasis are a number of different service stations, including an Educator Center, a “Polish for Pledges” Foundation shoe-shine booth, Endodontists: the root canal specialists display and a location to update your volunteer hours for the Step Up! program. Be sure to enter the annual Oasis drawing – you may be the lucky winner of a dinner for two, luxury spa treatments or complimentary registration for the 2006 Annual Session.

AAE REGISTRATION AND INFORMATION
AAE Registration and Information will be located in the Tower Lobby 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. – 3:30 p.m.

ANNUAL SESSION SHIRTS
Pre-ordered shirts were mailed to attendees prior to the Annual Session. A limited supply is available for purchase at the AAE Oasis.

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

CAREER OPPORTUNITIES EXCHANGE
Find the very latest job prospects or post an opening on the Career Opportunities Exchange Board located in the AAE Oasis. The job board is hosted and monitored by the Membership Services Committee.

CE INFORMATION

NEW! Attendance Verification Numbers
This year, attendance verification numbers will be announced at the end of each individual course. Attendees should record the number on the CE Verification Form, included in the registration packet, in order to document attendance and receive CE credit. Attendance verification numbers for oral and poster research presentations and table clinics will be available at each presentation location. California licensees should submit a copy of their completed form within 30 days to the AAE for documentation as required by the Dental Board of California. Complete instructions will be provided on the CE Verification Form.

CE credits may not be applicable for license renewal in all states. Since CE requirements and acceptable credits vary, each participant must verify the requirements of their state licensing board and whether the CE form should be retained by the participant or sent to the state board.

NEW! Oral and Poster Research Presentations and Table Clinics Maximum Hours
Participants can claim a maximum of two CE hours for attending the oral research presentations and an additional maximum of two CE hours for visiting the table clinics and/or poster research presentations.

The AAE is an ADA CERP-Recognized Provider.

CHILDRCARE
A list of insured and bonded babysitters in the Dallas area can be obtained from the Wyndham Anatole concierge.

ENDO-MAIL KIOSKS
Need to search the Internet, check your e-mail or look up a flight confirmation? Annual Session attendees can do all of this and more, free-of-charge, at the Endo-Mail kiosks in the Tower Lobby. Sponsored by SybronEndo

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 may drop your completed forms in the receptacle located in the AAE Registration and Information area.

EXHIBITS
Please refer to the Exhibits section of this program for a complete list of participating companies. Your name badge is required for admittance into 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.

LOST AND FOUND
If you have lost an item or wish to turn something in, dial extension 7347 from any house phone.

NO SMOKING POLICY
For the comfort of all attendees, smoking is not permitted at any AAE function.

PRESIDENT’S DINNER SEATING
Planning to attend the President’s Dinner? You must obtain a table assignment no later than 10 a.m. on Saturday, April 9. If you wish to have group seating, a ticket must be presented at the same time for each person in your group. Tables are reserved on a first-come, first-served basis. The President’s Dinner desk will be located in the AAE Registration and Information area.
REGISTRATION CATEGORIES
Annual Session registration categories include the following activities and events:

**Professional/Student/Auxiliary Member and Guest Packages:** Sessions and Exhibits, Welcome Reception, Opening Session, Continental Breakfasts, General Assembly and Coolidge Luncheons, and *Celebrate Dallas!* In addition, the Professional and Student Member packages will include one ticket to the President’s Dinner.

(Note: The Auxiliary package is only for dental assistants or office administrators who have joined the AAE. An endodontist’s AAE membership does not include membership for his/her staff.)

**Alliance Member Package:** Alliance membership dues and program activities, Welcome Reception and *Celebrate Dallas!*

**Family/Guest Package:** Welcome Reception and *Celebrate Dallas!*

**RESTAURANT RESERVATIONS**
The Wyndham Anatole concierge can assist you with restaurant recommendations and reservations during your stay.

**SESSION HANDOUTS**
Speakers are encouraged to provide handouts for their session. Handouts received by the AAE will be distributed at the corresponding session. Remaining copies of handouts will be available in the Emerald room.

**SESSION RECORDING**
The majority of sessions presented will be recorded and available for purchase on CD-ROM (MP3 format). Please refer to the Audio Recording Order Form provided in the registration packet, or visit the Sound of Knowledge sales desk in the AAE Registration and Information area. Participants may not audio- or videotape presentations on their own.

**SIMULTANEOUS INTERPRETATION**
Translation from English to Spanish, Japanese and Portuguese will be offered during the Pre-Session Symposium and for all sessions within the Surgery track on Thursday and Friday. This complimentary service will be offered to interested individuals on a first-come, first-served basis. To obtain a headset, please stop by the Simultaneous Interpretation desk located in the AAE Registration and Information area during registration hours.

**SPECIAL ASSISTANCE**
If you have a physical, communication or dietary restriction that may affect your participation in Annual Session activities, please see Eva Wilczek in the AAE Registration and Information area. Please note, the AAE and the Wyndham Anatole 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 for a listing of activities 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 10 a.m. on Saturday.

**TOUR PROGRAM**
The optional tour program, offered by USA Hosts, has been designed exclusively for AAE attendees. Registrants may pick up their tour packet at the AAE Registration and Information desk during the following hours:

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

All tours depart from the Wyndham’s Clock Tower Entrance.

_Sponsored by Dentsply Maillefer and Dentsply Tulsa Dental_
Wednesday, April 6

INTERNATIONAL RECEPTION (by invitation)
5:30 – 6:30 P.M.  Verandah Club
With the specialty of endodontics expanding globally, the AAE wishes to acknowledge those that have joined us from around the world. All international attendees are invited to gather at this event preceding the Welcome Reception.
Sponsored by Lippincott, Williams & Wilkins

WELCOME RECEPTION AND ALLIANCE SILENT AUCTION
6:30 – 8 P.M. – Reception  Anatole Park
6:30 – 8:30 P.M. – Auction  Peacock Terrace
Don’t miss this “One World” outdoor festivity in the Wyndham’s Anatole Park. Back by popular demand, the Alliance Silent Auction will again be held in conjunction with the reception, making for a great social scene. Don’t miss this opportunity to bid on weekend getaways, original art, jewelry, autographed items and much more! Make sure that you bid early; your support benefits the AAE Foundation.

Thursday, April 7

OPENING SESSION
8 – 10 A.M.  Trinity II
Join your fellow endodontists at the breakfast table to launch the 2005 Annual Session! Dr. Sandra Madison, AAE president, will present the keynote address. In addition, breakfast attendees will receive an overview of the many different activities planned for the days ahead.

LOUIS I. GROSSMAN MEMORIAL LUNCHEON
Noon – 1:30 P.M.  Wedgewood
Sponsored by the College of Diplomates, this year’s luncheon program will acknowledge endodontists who achieved Board certification during 2004. Family members, ABE Directors, the AAE Executive Committee and other Diplomates will gather to share this moment of recognition.
Dr. Stuart B. Fountain will present a keynote address describing the evolution of the College of Diplomates through this year’s anniversary of its initial charter established 10 years ago in Dallas. Dr. Fountain, along with Dr. M. Lamar Hicks, was deeply involved in establishing the College and fostered the early years of its formation. His vision helped build an organization that had as its mission the promotion of Diplomate status and the need for volunteer Diplomates to mentor qualified candidates through the Board certification process.

Friday, April 8

FUN RUN
6:30 A.M.  Anatole Park
Don your athletic gear and join fellow AAE members, family and friends for a refreshing and scenic morning run. Prior to the race, enjoy warm-up and stretch instruction led by an exercise physiology professional. The USTFA-certified 5K (3.1 miles) Fun Run will depart from the Verandah Club Patio in Anatole Park and will feature a lead bicyclist and finish line clock. For those participants who would like to run 10K, the option of running the course twice is available. Human arrows and route maps will be available to direct you!
Sponsored by Nobel Biocare, Inc.

GENERAL ASSEMBLY LUNCHEON
11:30 A.M. – 1:15 P.M.  Trinity II
The General Assembly is the AAE’s annual business meeting. Leadership from the AAE, Foundation and the ABE will present brief reports, and important issues affecting you and the Association will be discussed with courses of action decided. Your fellow members will be installed as officers and directors of the AAE, AAE Foundation and the American Board of Endodontics. Come have a bite, learn what’s been going on at the AAE over the past year, and vote on important issues facing the Association.
Friday, April 8 (cont.)

**CELEBRATE DALLAS!**

6:30 P.M. – MIDNIGHT

**Circle R Ranch**

This popular celebration will be held at the Circle R, an authentic, theme-oriented ranch set amid acres of green rolling hills and open pasture in the northern Texas countryside. Saddle up for a “Texas-sized” experience, starting with a delicious barbeque dinner, interactive games, a rodeo, live music, dancing and other entertainment. Buses will depart from the Clock Tower Entrance at the Wyndham Anatole from 6:30 – 7:15 p.m. Transportation back to the hotel will be provided throughout the evening, with the last buses departing Circle R at midnight. You must wear your name badge to attend the event.

*Sponsored by Dentsply Tulsa Dental*

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Saturday, April 9

**EDGAR D. COOLIDGE LUNCHEON**

11:30 A.M. – 1:30 P.M.  

*Trinity II*

Join your colleagues to acknowledge the following award recipients. In addition, the AAE/Dentsply Resident Awards, which recognize the top 10 presenters for oral and poster research presentations and table clinics, will be announced.

*Sponsored in part by Dentsply International*

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**EDGAR D. COOLIDGE AWARD**

*Philip W. Cohen, D.D.S., M.S.*

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

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**LOUIS I. GROSSMAN AWARD**

*James H. Simon, D.D.S.*

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

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**EDWARD M. OSETEK EDUCATOR AWARD**

*Alexandre A.P. Fleury, D.D.S., M.S.*

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**

*William J. Meyers, D.M.D., M.Ed.*

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.

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**RALPH F. SOMMER AWARD**

*Henry J. Van Hassel, D.D.S., Ph.D.*  

*Harmeet D. Walia, D.D.S., M.D.S., M.S.*

This award recognizes the principle author of a publication of specific significance to the art and science of endodontics or for an article describing developments or advances in methodology and/or materials and devices for constructive influence on clinical practice.

---

**PRESIDENT’S DINNER**

7 P.M. – Reception  

*Chantilly Foyer*

8 P.M. – Dinner  

*Chantilly Ballroom*

The 2005 Annual Session will culminate at this spectacular event hosted by AAE President Sandra Madison. Join your peers for an evening of fine dining, dancing and entertainment.

*(Black tie optional. Advance table assignment is required; one ticket is included in the Professional and Student Member registration packages. Please see page 10 for details.)*

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In order to facilitate program timing, meal service for the Opening Session and luncheons may not be available for latecomers.

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**Wyndham Anatole Art Tour**

The Wyndham Anatole houses one of the largest and most impressive collections of art and antiquities ever assembled in an American hotel. Customized art tours have been arranged exclusively for the AAE during the following times:

- **Wednesday, April 6**
  - 2 – 3:30 p.m.

- **Friday, April 8**
  - 2 – 3:30 p.m.

*Participants should assemble at the Atrium concierge desk 10 minutes prior to tour time.*
See Us At Booth #1012 And Take The V-Taper™ 3-Pack Challenge.

While you’re at AAE, be sure to stop by booth #1012 to learn firsthand about our 3-File V-Taper Rotary System. Sign up for a hands-on seminar in the Guidance Discovery Theatre, and find out how to achieve high-quality outcomes while being more productive with lower overhead. Then try one pack of each size for only $39 per pack (6 files/pack), and discover the difference for yourself.

Use the 3 files with a crown-down technique:

30(V10) → 25(V08) → 20(V06) → repeat

Final Shape:
- 30(V10)—Large Canals
- 25(V08)—Medium Canals
- 20(V06)—Small Canals

You’ll complete most molars and premolars using 2-3 files and anteriors using 1-2 files.

Call 1-866-844-ENDO (3636), or visit us online to order now!

www.GuidanceEndo.com | A portion of all profits will benefit charities for women, children, and animals.
### Alumni and Affiliate Functions

All functions will take place at the Wyndham Anatole unless otherwise noted.

#### Wednesday, April 6

<table>
<thead>
<tr>
<th>Institution/Association</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baylor College of Dentistry</td>
<td>Reception: 9 – 11 p.m.</td>
<td>Madrid</td>
</tr>
<tr>
<td>Northwestern University</td>
<td>Reception: 8 – 10 p.m.</td>
<td>Manchester</td>
</tr>
<tr>
<td>U.S. Army Association of Endodontists</td>
<td>Reception: 5:30 – 7 p.m.</td>
<td>Milan</td>
</tr>
<tr>
<td>University of Buffalo</td>
<td>Reception: 8 – 10 p.m.</td>
<td>Jade</td>
</tr>
<tr>
<td>University of Michigan</td>
<td>Dinner: 8 p.m.</td>
<td>Off-Site Location</td>
</tr>
<tr>
<td>Virginia Commonwealth University/ Medical College of Virginia</td>
<td>Reception: 6:30 – 9:30 p.m.</td>
<td>Ming</td>
</tr>
</tbody>
</table>

#### Thursday, April 7

<table>
<thead>
<tr>
<th>Institution/Association</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albert Einstein Endodontic Alumni Society</td>
<td>Reception: 6 – 7:30 p.m.</td>
<td>Manchester</td>
</tr>
<tr>
<td>Boston University</td>
<td>Reception/Dinner: 7 – 11 p.m.</td>
<td>Wedgwood</td>
</tr>
<tr>
<td>Case Western Reserve University</td>
<td>Reception: 5:30 – 7:30 p.m.</td>
<td>Batik B</td>
</tr>
<tr>
<td>Harvard University</td>
<td>Dinner: 6:30 p.m.</td>
<td>Off-Site Location</td>
</tr>
<tr>
<td>Louisiana State University</td>
<td>Reception: 6:30 – 9 p.m.</td>
<td>Off-Site Location</td>
</tr>
<tr>
<td>Marquette University</td>
<td>Reception: 6 – 7 p.m.</td>
<td>Wyeth</td>
</tr>
<tr>
<td>Michigan Association of Endodontists</td>
<td>Reception: 6:30 – 8 p.m.</td>
<td>Verandah Club, 2nd Floor</td>
</tr>
<tr>
<td>New York University</td>
<td>Reception: 6 – 8 p.m.</td>
<td>Milan</td>
</tr>
</tbody>
</table>

#### Thursday, April 7 (Continued)

<table>
<thead>
<tr>
<th>Institution/Association</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nova Southeastern University</td>
<td>Reception: 8:30 – 10 p.m.</td>
<td>Morocco</td>
</tr>
<tr>
<td>Ohio State University</td>
<td>Dinner: 6:30 p.m.</td>
<td>Off-Site Location</td>
</tr>
<tr>
<td>Oregon Health &amp; Science University</td>
<td>Reception: 6:30 – 8 p.m.</td>
<td>Rosetta</td>
</tr>
<tr>
<td>Pennsylvania Association of Endodontists</td>
<td>Meeting: 11 a.m. – noon</td>
<td>Madrid</td>
</tr>
<tr>
<td>St. Louis University</td>
<td>Reception: 6 – 8 p.m.</td>
<td>Rathskeller, Sports Bar</td>
</tr>
<tr>
<td>Temple University</td>
<td>Reception: 6 p.m.</td>
<td>Lalique</td>
</tr>
<tr>
<td>Tufts University</td>
<td>Reception: 6 – 7:30 p.m.</td>
<td>Edelweiss</td>
</tr>
<tr>
<td>U.S. Navy Association of Endodontists</td>
<td>Reception: 5:30 – 8 p.m.</td>
<td>Topaz</td>
</tr>
<tr>
<td>University of Florida</td>
<td>Reception: 5:30 – 7:30 p.m.</td>
<td>Steuben</td>
</tr>
<tr>
<td>University of Illinois</td>
<td>Dinner/Reception: 6 – 9 p.m.</td>
<td>La Esquina</td>
</tr>
<tr>
<td>University of Iowa</td>
<td>Reception: 6 – 8 p.m.</td>
<td>Jade</td>
</tr>
<tr>
<td>University of Louisville</td>
<td>Reception: 6 – 8 p.m.</td>
<td>Cardinal B</td>
</tr>
<tr>
<td>University of Maryland</td>
<td>Reception: 6:30 – 8:30 p.m.</td>
<td>Ming</td>
</tr>
<tr>
<td>University of Medicine &amp; Dentistry of New Jersey</td>
<td>Reception: 5:30 – 7:30 p.m.</td>
<td>Cardinal A</td>
</tr>
<tr>
<td>University of Missouri-Kansas City</td>
<td>Reception: 5:30 – 6:30 p.m.</td>
<td>Peridot</td>
</tr>
</tbody>
</table>

#### Friday, April 8

<table>
<thead>
<tr>
<th>Institution/Association</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oklahoma Association of Endodontists</td>
<td>Breakfast: 7 – 8:30 a.m.</td>
<td>Milan</td>
</tr>
<tr>
<td>U.S. Navy Association of Endodontists</td>
<td>Breakfast: 7 – 9:30 a.m.</td>
<td>Morocco</td>
</tr>
<tr>
<td>University of Toronto Endodontic Alumni and Friends Association</td>
<td>Breakfast Meeting: 7 – 9 a.m.</td>
<td>Travertine</td>
</tr>
<tr>
<td>V.A. Long Beach Endodontic Residency Alumni</td>
<td>Breakfast: 7 a.m.</td>
<td>Manchester</td>
</tr>
</tbody>
</table>

#### Saturday, April 9

<table>
<thead>
<tr>
<th>Institution/Association</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston University</td>
<td>Breakfast: 7:30 – 9 a.m.</td>
<td>Morocco</td>
</tr>
<tr>
<td>U.S.A.F. Association of Endodontics</td>
<td>Breakfast: 7 – 8:30 a.m.</td>
<td>Manchester</td>
</tr>
</tbody>
</table>

### Other Functions

#### Wednesday, April 6

<table>
<thead>
<tr>
<th>Institution/Association</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asian-Pacific Endodontic Confederation</td>
<td>Reception: 5 – 5:30 p.m.</td>
<td>Verandah Club</td>
</tr>
<tr>
<td>College of Diplomates</td>
<td>Board of Directors: 4:30 – 6 p.m.</td>
<td>Library</td>
</tr>
<tr>
<td>Endo Standards Group</td>
<td>Meeting: 1:30 – 5 p.m.</td>
<td>Madrid</td>
</tr>
</tbody>
</table>

#### Thursday, April 7

<table>
<thead>
<tr>
<th>Institution/Association</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>African-American Endodontists</td>
<td>Reception: 8 – 10 p.m.</td>
<td>Dardenelles</td>
</tr>
<tr>
<td>French Society of Endodontists</td>
<td>Reception: 7:30 – 9 p.m.</td>
<td>Verandah Club, 1st Floor</td>
</tr>
<tr>
<td>Harry J. Healy Endodontic Study Club</td>
<td>Reception: 6:30 – 8:30 p.m.</td>
<td>Fleur De Lis A</td>
</tr>
<tr>
<td>International Federation of Endodontic Associations</td>
<td>Board of Directors: 2 – 4 p.m.</td>
<td>Fleur De Lis A</td>
</tr>
</tbody>
</table>

#### Friday, April 8

<table>
<thead>
<tr>
<th>Institution/Association</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Federation of Endodontic Associations</td>
<td>General Assembly and Continental Meeting: 2 p.m.</td>
<td>Miro</td>
</tr>
</tbody>
</table>

#### Saturday, April 9

<table>
<thead>
<tr>
<th>Institution/Association</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endodontic Section of ADEA</td>
<td>Business Meeting: 2 p.m.</td>
<td>Coronado A</td>
</tr>
<tr>
<td>Endodontic Section of Triple O Editorial Board</td>
<td>Breakfast: 7 – 8:30 a.m.</td>
<td>Library</td>
</tr>
</tbody>
</table>
**Wednesday, April 6**

**Alliance Silent Auction**  
6:30 – 8:30 p.m.  Peacock Terrace

Back by popular demand! Held in conjunction with the Welcome Reception, the proceeds from this event will benefit the AAE Foundation.

**Thursday, April 7**

**Board of Directors Meeting**  
7 – 8 a.m.  Morocco

Hospitality Suite Open  
10 a.m. – noon

**Friday, April 8**

**General Membership Meeting and Brunch**  
9 a.m. – noon  Batik A/B

**Eating Around the World**  
Karen Hickman and Nancy Sweet – Professional Courtesy

This presentation will introduce information on the history and rituals of dining and how they have developed over the centuries for Westerners and other cultures. Other topics that will be discussed include the basics of fine-dining etiquette, how to negotiate any table with ease and the different styles of eating. Importance will be placed on increasing individual comfort levels in any dining situation. There will be a list of common dining faux pas and the opportunity for individual questions. Host and hostess duties for business or pleasure will also be included.

**Social Etiquette/Dining for Business and Pleasure**  
1:30 – 5 p.m.  Cortez C/D

Alliance members are invited to attend educational session A-200. Co-sponsored by the Alliance and the AAE, this session was designed for Professional, Auxiliary and Alliance attendees. Please refer to pages 37 and 40 for details.

**Saturday, April 9**

**Hospitality Suite Open**  
9 a.m. – noon

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**AAE Alliance Officers**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Jocelyn R. Lance (James)</td>
</tr>
<tr>
<td>Secretary</td>
<td>Karen Byron (Mark)</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Robin Mann (Sheldon)</td>
</tr>
<tr>
<td>Local Chair</td>
<td>Charlene Boynton (Robert)</td>
</tr>
<tr>
<td>Immediate Past/Past Chairman</td>
<td>Rebecca Funderburk (David)</td>
</tr>
</tbody>
</table>

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Mark Your Calendars Now!

Who says learning can’t be fun? Join the AAE and earn CE credits while enjoying a long weekend in this relaxing, tropical location!

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**2005 Fall Conference**

**Taking the Pain Out of Endodontics - Contemporary Pharmacology**

**November 3 - 5**  
The Registry Resort and Club, Naples, Fla.

Preliminary Program and Online Registration: August 2005  
Visit www.aae.org for more information.
In Appreciation

The American Association of Endodontists appreciates the following companies that have generously supported the 2005 Annual Session. Please show your appreciation by visiting their booths in the exhibit hall and/or contacting their representatives after the meeting.

The AAE would like to recognize the following companies for their generous contributions to the hands-on workshops:

- ASI Medical, Inc.
- Brasseler USA
- Coltene/Whaledent
- Compudent Systems
- Dentsply Tulsa Dental
- Global Surgical Corporation
- Hartzell & Son, G.
- IntraFlow by IntraVantage
- JedMed Instrument Company
- Kilgore International, Inc.
- Miltex, Inc.
- Obtura/Spartan
- PracticeWorks/Trophy Dental
- Roydent Dental Products
- Straumann USA
- Sullivan-Schein Dental
- SybronEndo
- Zeiss
SUCCESSFUL MANAGEMENT OF THE COMPROMISED TOOTH
Trinity II

The Continuing Education Committee has developed this symposium featuring an international panel of experts who will share the newest studies and techniques incorporating good science, as well as years of clinical experience. With the introduction of new technologies and biocompatible materials, it has become possible for the clinician to successfully “resurrect” significantly compromised teeth. Evidence-based studies have enabled the practitioner to provide more realistic outcomes for patients. The recent popularity of dental implants has made it increasingly important for the endodontist to be knowledgeable in the latest advances in retaining the natural dentition, as well as alternative treatments.

This fast-moving but comprehensive symposium will begin with a welcome and brief introduction by Dr. Kenneth J. Zucker, chair of the Continuing Education Committee, followed by presentations focusing on evidence-based clinical decision-making and innovative techniques for managing difficult iatrogenic mishaps, resorptions, retreatment and disassembly, intentional replantation and compromised restorative situations.

AVAILABLE CE UNITS: 7
A copy of the Verification of Participation form is included in each attendee’s registration packet.

On-site registration, if available, will be accepted on Tuesday, April 5, during published registration hours. Registration on Wednesday morning will not be accepted.

The outcome of therapy is the basis for clinical decision-making, but it can be measured on different levels. This lecture will suggest appropriate outcomes for endodontic therapy, particularly in teeth affected by persistent disease. The pertinent literature will be reviewed with an emphasis on differentiating studies according to levels of evidence. The selected studies will then be analyzed to establish the outcomes of orthograde retreatment and apical surgery on the levels of health and functionality.

At conclusion, participants should be able to:

- Describe the significance of healing and functionality as appropriate outcomes of endodontic therapy, particularly in compromised teeth.
- Discuss the importance of, and the general guidelines for, differentiating studies based on levels of evidence.
- Quote the expected rates of healing and asymptomatic function after orthograde retreatment and apical surgery.
CLINICAL COMPLICATIONS ASSOCIATED WITH ROOT FORM IMPLANTS
Charles J. Goodacre, D.D.S., M.S.D.
This presentation will identify and discuss the most common clinical complications that occur in conjunction with endosseous root form implants. Incidence data will be provided based upon clinical studies and reports published throughout the world. The information contained in this presentation enhances the development of effective treatment plans, promotes optimal doctor-patient communications regarding anticipated outcomes, and facilitates the diagnosis of complications that can occur following treatment.
At conclusion, participants should be able to:
• Identify the types of complications that can occur in conjunction with endosseous root form implants.
• List the factors that are most likely to cause implant loss.
• Compare implant success as it relates to arch, type of prosthesis, the oral environment and systemic conditions.

RETREATMENT OF THE COMPROMISED DENTITION
Gary B. Carr, D.D.S.
This lecture will review and summarize the current literature on retreatment and how that literature impacts the clinical practice of endodontics. Clinical guidelines will be proposed that will assist practitioners in going through their decision tree when retreatment is an option in the treatment of compromised dentition. Particular attention will be given to considering how the role of implants enters into the treatment planning process and what factors the endodontist needs to be aware of when planning the treatment of complex cases where both retreatment and implants are viable options. A discussion of various clinical cases will illustrate the current dilemmas faced by endodontists in deciding whether to retreat or extract.
At conclusion, participants should be able to:
• Describe why retreatment is not always advisable.
• Recognize when implants enter into treatment planning.
• Describe the current state of their own knowledge about retreatment.

PREDICTABLE MANAGEMENT OF IATROGENIC MISHAPS
Arnaldo Castellucci, M.D., D.D.S.
With modern technology, it is much easier to address iatrogenic mishaps. The repair of a root perforation, removal of a broken instrument or bypass of a ledge is predictable today with the use of the operating microscope and biocompatible materials. This presentation will also discuss several different clinical retreatment procedures, including the removal of posts, gutta-percha and silver cones, and the prevention of iatrogenic mishaps.
At conclusion, participants should be able to:
• Describe the basics of a good treatment plan and decide when it is more appropriate to retreat nonsurgically than to perform a surgical procedure.
• Explain the clinical procedure to remove posts, gutta-percha and broken instruments.
• Describe the clinical procedure to repair a perforation.

UNDERSTANDING, DIAGNOSING AND MANAGING ROOT RESORPTION
Paul V. Abbott, M.D.S.
Many forms of internal and external root resorption exist. Clinicians must understand the different pathological and physiological processes involved in resorption so an accurate diagnosis can be made and appropriate management strategies can be adopted. Some resorptive processes can be prevented, some require no treatment, some require active and specific treatment to arrest the process and/or repair the defect, and some cannot be treated at all.
At conclusion, participants should be able to:
• Describe a classification system for the various resorptive processes that occur in teeth.
• Describe the physiological and pathological processes involved in root resorption.
• Apply this knowledge to diagnose and manage the various root resorption processes that occur in teeth.

INTENTIONAL REPLANTATION AND AUTOTRANSPLANTATION FOR ENDODONTICALLY COMPROMISED TEETH
Mitsuhiro Tsukiboshi, D.D.S., Ph.D.
Complex treatment plans often include situations where the choices of intentional replantation or autotransplantation have been overlooked. The indications, advantages and treatment techniques for these procedures will be presented, and the lecture will be extensively illustrated with clinical cases.
At conclusion, participants should be able to:
• Identify clinical solutions suitable for replantation and autotransplantation.
• Discuss the techniques for success in replantation and transplantation.
• Evaluate the expected outcomes of replantation and transplantation.

OKAY, HOUDINI—WHAT’S IN THE BAG? PRESERVING THE MAGIC OF SAVING COMPROMISED TEETH
C. John Munce, D.D.S.
“Mrs. Jones, wouldn’t you prefer to upgrade from the old-style enamel/dentin/cementum model suspended in a periodontal ligament to this all-new, fully osseointegrated, plasma-sprayed titanium model?” If we lay down our hard-won tooth-saving skills, it will be to Mrs. Jones’ detriment. This clinical, video-driven presentation will explore unique access, isolation and stabilization methods for managing severe coronal-radicular breakdown, canal wall irregularities, cracks and obstructions.
At conclusion, participants should be able to:
• Describe various techniques for gaining access to deep obstructions for removal or bypass.
• Explain various methods for achieving ideal isolation under the most complex of circumstances.
• List novel methods for reconstructing severely debilitated teeth and the specific instrumentarium for each.
# Educational Tracks

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**Implantology Track Sponsored by Nobel Biocare, Inc.**

- **I-201**: Evidence-Based Decision-Making: Case Selection—Implant or a Natural Tooth? 8 – 9:30 a.m. p. 31
- **I-201 continued**: Immediate Loading of Implants: The Next Level 10 – 11:30 a.m. p. 34
- **I-202**: The Application of Periodontal Plastic Surgery in Standard and Complex Implant Therapy in the Esthetic Zone 1:30 – 3 p.m. p. 37
- **I-203**: Strategies for Success With Dental Implants: An Introduction to Surgical Placement Protocols Workshop 8 – 11:30 a.m. p. 44
- **I-201 continued**: Perspectives on Implants 9:45 – 11:15 a.m. p. 45
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- **I-202**: Practice Transition Strategies: A Discussion for Endodontists and Residents 2 – 3:30 p.m. p. 48
Proceeds from all auctions benefit the AAE Foundation

**Foundation Live Auction**
5 – 6 p.m., Thursday, April 7
Bidding opens at 5:30 p.m.
*Trinity I*
Bid on quality endodontic products with a value of $5,000 or more donated by a number of exhibitors.

**NEW! Silent Product Auction**
Bidding opens at 10 a.m. on Thursday, April 7, and closes at 4 p.m. on Friday, April 8
*Trinity I*
Exhibitors will have the available products, valued up to $5,000, on display throughout the exhibit hall. To participate, register with a Foundation representative at the AAE Oasis in the Trinity Foyer.

**Alliance Silent Auction**
6:30 – 8:30 p.m., Wednesday, April 5
*Peacock Terrace*
A number of fabulous member-donated items will be available, including fine jewelry, vacation packages, art and much more! Held in conjunction with the Annual Session Welcome Reception, a casual, outdoor festivity.

**Featuring products from...**
- Coltene/Whaledent
- Dentsply Tulsa Dental
- Discus Dental Software
eie2.com
- Endure Medical, Inc.
- IntraFlow by IntraVantage
- Kodak Dental Systems
- Lexi-Comp Publishing
- Obtura/Spartan
- Quintessence Publishing Co.
- Schick Technologies
- SybronEndo
- Ultradent Products
- Zeiss Surgical
8 a.m. – 5 p.m.

ENDODONTIC MICROSURGERY WORKSHOP


An additional fee is required to attend this course.

This all-day course is designed to provide participants the opportunity to learn about contemporary microsurgical armamentarium and techniques. After a review of the 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, retraprep, retrofill and suture on simulated anterior, bicuspid and molar teeth.

At conclusion, participants should be able to:

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

*This session will not be recorded.*
1:30 – 2:15 p.m.

**CHLORHEXIDINE IN ENDODONTICS**


Alternative intracanal medicaments have been sought to improve the eradication of bacteria before obturation. In recent years, chlorhexidine-gluconate (CHX) has emerged as an effective antimicrobial medicament in endodontic treatment. The aim of this presentation is to discuss the physicochemical and antibacterial properties of CHX as an irrigant and as an intracanal medicament in different concentrations and combinations.

At conclusion, participants should be able to:

- Identify the properties of CHX as an irrigant and as an intracanal medicament.
- Describe advantages and disadvantages of the common intracanal medicaments and irrigants.
- Identify various medicament compositions desirable for differing applications.

1:30 – 3 p.m.

**RESTORATION OF ENDODONTICALLY TREATED TEETH–ARE POSTS STILL A VALID TREATMENT OPTION?**

*Moderator: Alessandra L. Ritter, D.D.S., M.S., Chapel Hill, N.C.*

The lecture will give an overview of modern treatment concepts when restoring endodontically treated teeth. Topics to be discussed include the rationale for and against the use of posts and various post materials. Many clinical situations will be addressed showing alterations in the treatment plan depending on the individual case by giving reference to the most relevant literature.

At conclusion, participants should be able to:

- Identify the most important parameters when restoring endodontically treated teeth.
- Describe factors critical to improving clinical outcomes.
- Identify appropriate treatment for different clinical situations.

1:30 – 3 p.m.

**THAT’S WHAT I WANT!**

*Moderator: Deborah S. Bishop, D.M.D., Huntsville, Ala.*

“That’s what I want!” is what patients, team members and doctors say when the practice speaks one clear message with one clear voice. By understanding what motivates doctors and what inspires team members, we can grasp what propels patients to say “Yes!,” over and over again. This program will imbue the entire team with consistent, powerful verbal skills and help the practice fulfill the dream of modern dentistry through trust and understanding.

At conclusion, participants should be able to:

- Replace “dead” words and phrases with dynamic expressions that patients clearly understand and appreciate.
- Create an ongoing system of improving practice communications through a proven system of verbal cue cards.
- Recognize and respect the needs and wants of the doctor, the team members and the patients as all-inclusive and all-important to the success of any dental practice.
THE MAGIC BULLET: PAIN CONTROL IN 2005

*Moderator: Kenneth M. Hargreaves, D.D.S., Ph.D., San Antonio, Texas*

This session is designed to provide a strong overview of the pain world in the 21st century. The objectives are to provide a biological understanding of pain mechanisms to be able to better diagnose and treat pain, to provide an understanding of the role of genetics in being predisposed to pain conditions and in understanding patients’ responses to drugs, and to provide an overview of the next generation of analgesics.

At conclusion, participants should be able to:
- Explain the biology of endodontic hyperalgesia and alldynia, and use this knowledge for diagnosis and treatment.
- Describe the role of patients’ genes as a risk factor for pain and in their response to analgesics.
- List the next generation of analgesics and how they work.

ABE BOARDWALK

The Directors of the American Board of Endodontics will discuss the process required for Board certification. Sequencing of the certification process will be outlined. Each phase of the examination process (Written Examination, Case History Portfolio and Oral Examination) will be discussed and suggestions will be provided for preparation and successful completion of each portion of the certification process. The program is designed to provide interested individuals with the opportunity to interact with the Directors and to clarify concerns regarding the certification process.

Additional Presenters – American Board of Endodontics Board of Directors:

- William G. Schindler, D.D.S., M.S.
- J. Craig Baumgartner, D.D.S., M.S., Ph.D.
- Carl W. Newton, D.D.S., M.S.D.
- Paul A. Rosenberg, D.D.S.
- Keith V. Krell, D.D.S., M.S., M.A.
- Linda G. Levin, D.D.S., Ph.D.
- Al Reader, D.D.S., M.S.
- Christopher S. Wenckus, D.D.S.

DIAGNOSTIC ODYSSEYS: TOOLS, SCIENCE AND INTUITION

*Moderator: James Guttuso, D.D.S., Delray Beach, Fla.*

Pulpal and periradicular diagnoses are of critical importance; however, currently available techniques are extremely limited. What do we do when our tests conflict or we cannot reproduce a chief complaint? This presentation will focus on a scientific explanation of today’s diagnostic armamentaria. Diagnostic algorithms will be constructed based upon test results, biology, scientific literature and intuition to enhance the clinician’s ability to make accurate diagnoses. Clinical cases will be highlighted to illustrate these concepts.

At conclusion, participants should be able to:
- Describe current classifications of pulpal and periradicular disease and identify the best tools for establishing diagnosis.
- Incorporate diagnostic algorithms in clinical practice.
- Discuss future trends in the science of diagnosis.
**Surgical Endodontics: An Introspective and Dynamic Overview**


Surgical principles and directives have undergone significant changes in the past few decades. This presentation will bring the participant from the recorded beginnings of surgical endodontic intervention to present-day concepts. While highlighting key perspectives within the evolution of this discipline, perplexing challenges for the future will be addressed. The role that this modality plays in the retention of teeth will be addressed relative to integrated treatment planning and its relationship to nonsurgical intervention.

At conclusion, participants should be able to:

- Discuss the historical development of surgical endodontics as it relates to contemporary practice.
- Identify pivotal developments in the history of surgical endodontics that resulted in significant changes in treatment concepts and treatment delivery.
- Discuss present-day surgical principles, identifying key biological and clinical issues that provide a rationale for these principles.

**Risk Factors for Dental Trauma: Transitioning from Knowledge to Prevention**

*Moderator: Martin Trope, B.D.S., D.M.D., Chapel Hill, N.C.*

Many studies document the prevalence of dental trauma, and most report similar findings. Because important risk factors for dental trauma are well known, the logical next step involves designing intervention studies to evaluate how the incidence of dental trauma might be decreased. The existing literature on prevalence and risk factors for dental trauma will be reviewed and suggestions will be made for how this area of scientific inquiry might be advanced.

At conclusion, participants should be able to:

- Identify risk factors for dental trauma.
- Summarize how the knowledge base about the epidemiology of dental trauma can transition from description of existing problems to successful intervention efforts.
- Identify the increased risk for multiple dental trauma episodes.

**Resident and New Practitioner Forum**

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. Learn about current committee initiatives, share your ideas and opinions and hear about activities of interest at other endodontic programs. 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:

- Explain how to network with residents across the country.
- Describe how to contribute to current initiatives for residents and new practitioners, and how to affect future changes to their practices and profession.
- Identify how the AAE will incorporate activities for residents and new practitioners into future programs.

**Additional Presenters – Resident and New Practitioner Committee:**

Jessica L. Barr, D.D.S.  
Jeffrey Minchau, D.D.S.  
Philip A. Jensen, D.D.S.  
William K. Morgan, D.D.S., M.S.  
Judy D. McIntyre, D.M.D.
1:30 – 5 p.m.

TAKING THE TWIST OUT OF NICKEL-TITANIUM WORKSHOP

*Moderator: Ove A. Peters, D.M.D., Zurich, Switzerland*

An additional fee is required to attend this course.

Study of shaping videos and testing of a new nickel-titanium endodontic file system have proven the helical spiral, present on virtually all files, is a design element that causes nearly all rotary shaping problems. Learn how a nonspiraled instrument can give the clinician complete control during the shaping process. In addition, discover how this nonspiraled design accommodates a wide range of techniques and shaping speeds. Evidence from a year of clinical usage will be presented to illustrate the nonspiral system’s effectiveness and relative safety. After a lecture disclosing the merits and limitations, each participant will be given the opportunity to shape plastic canals and extracted teeth with this new file system. The speaker and several clinicians who are currently using the file system will assist the participants with the hands-on portion.

At conclusion, participants should be able to:

- Explain the influence a spiral design has upon debris management.
- Describe the influence speed has over required shaft torque.
- Discuss how .02 tapers give nickel-titanium a flexibility advantage that is lost with .04 and larger tapers.

*This session will not be recorded.*

2:15 – 3 p.m.

EFFECTIVENESS OF DIFFERENT SOLUTIONS IN THE ELIMINATION OF ENTEROCOCCUS FAECALIS


This session will review the need for bacteria-free canals in endodontic success and the known methods to achieve that goal. The authors will present the results of *in vitro* studies with different irrigating solutions to try to improve the elimination of *E. Faecalis* from the root canal. Topics to be discussed include the appropriateness of the test methods used, the effectiveness of a combination of different irrigating solutions during the treatment and the clinical relevance of the results obtained.

At conclusion, participants should be able to:

- Discuss the need for bacteria-free canals to achieve endodontic success.
- Describe how the use of different irrigating solutions in different concentrations and temperatures can improve cleaning of the root canal system.
- Compare and contrast the actions, including side effects and risks, associated with the various irrigating solutions proposed.

INTEGRATING RESTORATIVE AND ENDODONTIC FUNDAMENTAL CONCEPTS: A NEW POST SYSTEM

*Moderator: Alessandra L. Ritter, D.D.S., M.S., Chapel Hill, N.C.*

This presentation will demonstrate the rationale of post design. A review of the literature of currently marketed post systems and the effect post design has on root structure results in a rationale for modification to current designs. Results of current evidence-based research on a new post system are unveiled in a format that highlights the simplicity, efficiency and safety of its design concept, followed by an outline of steps required for clinical use.

At conclusion, participants should be able to:

- List the advantages of incorporating this new post system in their daily practice.
- Describe the ease of use and the potential procedural errors on post preparation.
- Identify the clinical significance of the new post system.

*This session will not be recorded.*
3:30 – 4:15 p.m.

**DIAGNOSIS, PROGNOSIS AND DECISION-MAKING IN THE TREATMENT OF COMBINED ENDODONTIC-PERIODONTAL LESIONS**


The pulp and the periodontium are intimately related and interconnected through the apical foramen, lateral and accessory canals, and exposed dentinal tubules. Etiologic factors, such as bacteria, fungi and viruses, and contributing factors, such as trauma, root resorptions, perforations and dental malformations, play an important role in the development and progression of disease in these tissues. Treatment and prognosis of endodontic-periodontal diseases vary and depend on the etiology and correct diagnosis of the specific condition. This presentation will discuss the interrelationship between endodontic and periodontal diseases, and will provide biological and clinical evidence for diagnosis, prognosis and decision-making in the treatment of these conditions.

At conclusion, participants should be able to:

- Describe the anatomical pathways of communication between the pulp and the periodontium, and the etiologic and contributing factors of endodontic-periodontal diseases.
- Compare the relevant clinical tests and diagnostic procedures.
- Describe factors to consider toward differential diagnosis and treatment decision-making.

This session will not be recorded.

3:30 – 5 p.m.

**ULTRASONIC INSTRUMENTATION IN ENDODONTICS**

Moderator: Mary T. Pettiette, D.D.S., Pincherst, N.C.

Ultrasonic instruments are a valuable asset in our armamentarium for root canal access, canal location and removing separated instruments, because the tips facilitate uncompromised vision. The comparison of more than 20 ultrasonic tips used on three ultrasonic units offers attendees important information regarding the tips that work best with specific ultrasonic units, and whether other units are more effective with favored tips.

At conclusion, participants should be able to:

- Identify which ultrasonic tips work best with specific ultrasonic units.
- Preserve tip life and prevent tip breakage.
- List the proper uses for various ultrasonic tips.

3:30 – 5 p.m.

**THAT’S WHAT I WANT!**

David M. Reznik, D.D.S.
East Point, Ga.

Moderator: Deborah S. Bishop, D.M.D., Huntsville, Ala.

See page 24 for a complete session synopsis.

3:30 – 5 p.m.

**THE MAGIC BULLET: PAIN CONTROL IN 2005**

B. Ellen Byrne, D.D.S., Ph.D.
Richmond, Va.

Raymond Dionne, D.D.S., Ph.D.
Bethesda, Md.

Karl Keiser, D.D.S., M.S.
San Antonio, Texas

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

See page 25 for a complete session synopsis.
MICROSCOPE-CENTERED ANSWERS TO ENDO-RESTORATIVE FAILURES

Moderator: Julian R.D. Moiseiwitsch, B.D.S., Ph.D., Washington, D.C.

The restoration of endodontically treated teeth remains one of the weak links in dentistry. Clinicians can learn much from failures, yet endodontists rarely see the failures of the teeth they treat. Topics to be covered in this microscope-centered lecture include: failure festival, doing the right thing--no more temporaries, identification and treatment planning, high-risk cases, dispelling endo-restorative myths, esthetic crown access repair and endo-restorative casting.

At conclusion, participants should be able to:

• Discuss the most common causes of restorative and endo-restorative failures of endodontically treated teeth.
• Describe the role of the operating microscope in restoring endodontically treated teeth.
• Predictably retain borderline teeth that need not be extracted.

AN OVERVIEW OF EVIDENCE-BASED DENTISTRY: WHAT, HOW AND WHY?


At a time when the public is asking that their health care be based on the expertise and experience of a trusted health care provider, the best scientific evidence available to support the care provided and the preferences of the patient should also be considered. It is essential that the oral health care provider have a good understanding of what evidence-based dentistry is, how it is determined and why it is important in the practice of dentistry. This very beneficial presentation will address each of these aspects of evidence-based dentistry.

At conclusion, participants should be able to:

• Discuss the importance of utilizing the best scientific evidence to support dental care decisions.
• Define what evidence-based dentistry is and is not.
• Describe what an evidence-based systematic review is and how it differs from a narrative review.

THE OUTCOMES OF APICAL SURGERY AND THEIR PREDICTORS


The outcome of treatment, which is the basis for clinical decision-making, can be measured on different levels. This lecture will suggest appropriate outcomes for apical surgery in root-filled teeth presenting with persistent disease. The extensive literature addressing the “success” of apical surgery will be reviewed, and studies selected according to levels of evidence will be identified. The selected studies will then be analyzed to establish the outcomes of apical surgery on the levels of health and functionality.

At conclusion, participants should be able to:

• Describe the significance of healing and functionality as appropriate measures for outcome assessment after apical surgery.
• Discuss the importance of and the general guidelines for differentiating studies based on levels of evidence.
• Quote the expected rates of healing and asymptomatic function, and the main predictors of outcome after apical surgery.
EFFECT OF TREATMENT DELAY ON HEALING OF TRAUMATIC DENTAL INJURIES

Moderator: Martin Trope, B.D.S., D.M.D., Chapel Hill, N.C.

For a long time, it has been considered a must to treat all traumatic dental injuries on an acute basis. Recently, a systematic review of the literature has shown that this is not the case. In this presentation, factors such as bacteria invasion and wound-healing processes will be described as they relate to treatment delay.

At conclusion, participants should be able to:
- Describe the effects of treatment delay on pulpal and periodontal healing.
- Identify treatment delay factors in various trauma entities.
- Compare and contrast the actions, including side effects and risks, associated with various NSAIDS.

This session will not be recorded.

ENDODONTIC MICROBIOLOGY: FROM GENOMIC RESEARCH TO THE CLINIC


In the past several decades, there have been remarkable advances in the science of microbiology and in oral microbial research. Today, the detection and identification of microorganisms, their virulence factors and resistance to antimicrobial treatments are different than they were in the past. This presentation will address recent advances in microbial research and demonstrate how this research could benefit clinicians of today and tomorrow.

At conclusion, participants should be able to:
- Identify the strengths and weaknesses of different methods of identifying microorganisms.
- Describe the potential use of newer technologies in microbiology for clinical endodontics.
- Explain the complexity of clinical problems.

GUIDANCE ENDODONTIC SYSTEM

Moderator: Mary T. Pettiette, D.D.S., Pinhurst, N.C.

Recent improvements in nickel-titanium metallurgy and file manufacturing make it possible to produce a superior nickel-titanium rotary file system. This session will detail how that system was developed and how to use it. The nickel-titanium rotary file system is a set of three files designed to create deeper apical preparations and allow the dentist to complete root canals using only two-three rotary files.

At the conclusion, participants should be able to:
- Describe how the improvements allow for a more advanced nickel-titanium rotary file system.
- List the advantages of the advanced nickel-titanium rotary file system.
- Report on how to use the guidance endodontic system.
**8 – 8:45 a.m.**

**INTRA- AND INTER-OBSERVERS’ EVALUATION OF THE RADIOGRAPHIC ODONTOLOGY**

*Moderator: Eric M. Rivera, D.D.S., M.S., Chapel Hill, N.C.*

This presentation will evaluate the intra- and inter-observers’ agreement at interpretation of radiograph working lengths. Topics to be discussed include agreement between intra-examiners and inter-examiners in working length analysis, and a review of the radiographic working length. The causes of mistakes in the execution of work length measurement will also be discussed.

At conclusion, participants should be able to:

- Describe intra- and inter-observers’ agreement at interpretation of radiographic working lengths.
- Describe the standardization in the evaluation of radiographic working length and prevent mistakes in diagnosis.
- Apply the acquired knowledge to obtain a standardized interpretation of radiographic working length.

**MAXIMIZING EFFICIENCY AND SAFETY**


This course will give the participant specific recommendations about how to maximize the efficiency and safety of rotary nickel-titanium file use with an eye toward minimizing iatrogenic outcomes. Specific file designs will be discussed. Design features and the relationship to their function will also be emphasized. Recommendations will be made with regard to providing sound principles rather than advocacy for a particular system.

At conclusion, participants should be able to:

- Describe effective rotary nickel-titanium file utilization.
- Prevent iatrogenic events related to rotary use.
- List indications and contraindications for rotary nickel-titanium file utilization.

**8 – 9:30 a.m.**

**EVIDENCE-BASED DECISION MAKING/CASE SELECTION: IMPLANT OR A NATURAL TOOTH?**

*Moderator: Gerald N. Glickman, D.D.S., M.S., J.D., Dallas, Texas*

Endodontists, periodontists and restorative dentists face frequent dilemmas regarding the treatment of compromised teeth. Clinicians now have a greater ability to salvage debilitated teeth, but with the advent and predictability of implants, there may be a decreased need to do so. In turn, clinical decision-making regarding appropriate treatment for the patient is becoming increasingly complex, given such viable alternatives. This interactive session will focus on a myriad of clinical cases with a variety of treatment options. Participants will be able to select their choice of treatment via the use of keypads. Results will be immediately displayed and discussed in a point-counterpoint format. Evidence-based dentistry, including scientific literature, biology and clinical expertise will be used to support various approaches.

At conclusion, participants should be able to:

- Discuss the rationale and complications in retaining compromised teeth, and analyze clinical scenarios with respect to endodontic, periodontal and restorative issues.
- Discuss situations where conventional endodontic and restorative options are not very predictable.
- Apply principles of scientific evidence, clinical expertise, patient needs and economics in determining various modes of treatment.

*Portions of this session will involve interactive participation from the audience through the use of keypads.*
PAIN FROM ENDODONTIC AND NONDENTAL ORIGIN: BASIC MECHANISMS, DIFFERENTIAL DIAGNOSIS AND CLINICAL MANAGEMENT

Moderator: Karl Keiser, D.D.S., M.S., San Antonio, Texas

This presentation will include a review of the basic neuroanatomy and pain physiology of the trigeminal system. The mechanisms of heterotopic pains, including central, projected and referred, will be explained. The clinical characteristics of the most common pain entities that mimic a toothache will be described. Basics on their management and aspects of proper referral will be discussed. Details on how to effectively gather a thorough history of the patient’s pain complaint will be explained.

At conclusion, participants should be able to:
• Identify the basic mechanisms of heterotopic pain.
• Describe some of the more common or serious pain entities that mimic a toothache.
• Take a pain history from a patient developing a differential diagnosis of orofacial pain of pulpal and nonpulpal origin.

WHAT IS BRANDING ANYWAY? WHY SHOULD WE CARE?


The first half of this session will focus on what branding is all about, and why and how it works, in endodontic practices and other venues. The goal is to de-mystify the concept by helping you understand how pervasive branding is in all segments of business and life, including an endodontic practice, and that it is critical for maximizing success. Anecdotes and examples of successful and unsuccessful branding will be reviewed, focusing on why the concept worked, or why it failed to meet expectations. The second half of the lecture will build upon the first session, explaining how to incorporate branding into your practice. Specific steps will be discussed that will help you build a unique brand, develop long-term appeal and credibility for your practice, enhance your reputation and profitability, and bring in more patients.

At conclusion, participants should be able to:
• Describe branding and how it works.
• Discuss how branding is a major tool in building a successful and profitable endodontic practice.
• Describe specific steps that can be taken to begin building a world-class practice brand.

THE BIOLOGY OF SOFT TISSUE MANAGEMENT


A comprehensive knowledge of the biological principles involved in the management of the tissues is essential in optimizing the outcome of surgery. This presentation explores the biological effect of the various choices of materials and techniques for surgery. The focus of this presentation will be to critically examine the impact of soft tissue management during endodontic surgery.

At conclusion, participants should be able to:
• Identify soft tissue anatomical structures located in the surgical field.
• Compare and contrast various soft tissue surgical access options.
• Identify the general principles of flap design tissue reflection and guided tissue regeneration, and understand when guided tissue regeneration is a useful adjunct in surgery.
EDUCATIONAL SESSIONS

MANAGEMENT OF CROWN AND ROOT FRACTURES
Moderator: Martin Trope, B.D.S., D.M.D., Chapel Hill, N.C.

This session will describe the conditions and treatment required to maintain pulp vitality after uncomplicated and complicated crown fracture. When pulp vitality is lost in teeth with immature roots, traditional and new techniques will be described to create a barrier at the apex and strengthen the root walls. Horizontal root fractures from traumatic dental injuries are often mismanaged because of diagnostic failures and lack of information. However, if treated correctly, the outcome can be extremely good. Diagnostic and treatment essentials will be presented.

At conclusion, participants should be able to:
• Describe the essential requirements for maintaining pulp vitality after crown fractures.
• Describe the advantages of newer techniques in creating apical barriers and strengthening the root in immature teeth where the pulp has become necrotic.
• Identify the essential diagnostic and management requirements for successful outcomes for root fractured teeth.

This session will not be recorded.

8:45 – 9:30 a.m.

DIGITAL RADIOGRAPHY REVISITED
Moderator: Eric M. Rivera, D.D.S., M.S., Chapel Hill, N.C.

Advances in technology develop faster than the blink of an eye. This program will offer insight into the digital world and allow the practitioner to see the latest and greatest innovations in radiography. Participants will see the evolution of digital radiography and its impact on the everyday endodontic practice. Practitioners will discover and understand the current systems on the market today. A look into specific types of scans will give a preview of future technologies that are a blink away.

At conclusion, participants should be able to:
• Describe what digital radiography is, how it works and why it is important.
• List the advantages and disadvantages of digital radiography versus conventional x-ray films.
• Identify current and future technologies and how they will affect the way we practice.

TRANSITION PLANNING FOR THE JUNIOR AND SENIOR ENDODONTIST

This presentation will expose the current resident, as well as the established endodontist, to the issues involved in practicing together or buying and selling an endodontic practice. Issues to be discussed are the valuation of an endodontic practice, employment, practices and purchase contracts, and the tax implications for the buyer and seller of a practice.

At the conclusion, participants should be able to:
• Describe the value of association in a practice.
• Describe the value of a practice, whether as a buyer or seller.
• Identify the need for competent legal and tax advice.
10 – 10:45 a.m.

AN UPDATE IN MICROSCOPE PHOTOGRAPHY


This session will review the principles of digital microscope photography. In addition, the latest camera and mount options will be reviewed and compared. Specifically, the advantages and disadvantages of the fixed-lens prosumer cameras will be compared to those of the SLR-type camera. There will also be a discussion of the pros and cons of ring flash versus a xenon light source when using the SLR-type camera.

At conclusion, participants should be able to:

• Describe the advantages and disadvantages of the latest microscope photography equipment, including the differences between proSUMER and SLR-type cameras.
• Explain the four major skills required to acquire high-quality images from the microscope.
• Describe the appropriate use of computer software in post processing of digital images.

UNUSUAL CASE REPORTS

Moderator: André K. Michel, D.D.S., M.S.D., Beachwood, Ohio

Due to the infrequent occurrence of unusual cases, clinical endodontists may be uncertain about their diagnosis and treatment planning. A successful outcome will depend on a pre-emptive approach in understanding etiology, as well as technical excellence in treatment. Root fractures, perio-endo pathology and nonodontogenic periapical lesions are a few sources of these potential enigmas. Criteria influencing the decision to endodontically treat or to extract teeth will be discussed.

At conclusion, participants should be able to:

• Evaluate and assimilate clinical information and radiographic images.
• List inconsistencies in signs and symptoms that make the occurrence of nonendodontic lesions likely.
• Assess whether to extract or treat teeth endodontically.

10 – 11:30 a.m.

IMMEDIATE LOADING OF IMPLANTS: THE NEXT LEVEL

Moderator: Susana M. Bruce, D.D.S., Flower Mound, Texas

While the concept of immediately loading implants has become both popular and scientifically valid for several clinical applications, recent advances in technology have created a new level of possibilities. Edentulous reconstructions based on presurgical computer planning of implant placement and medical modeling from CT scans can now reduce the actual clinical time for surgery and final prosthesis delivery to less than one hour in selected patients. Scalloped margin implants designed for interproximal bone maintenance or single-piece implants placed with flapless surgery can also be immediately loaded in partially edentulous or single-tooth situations with significant improvements in esthetics, comfort and patient convenience. This presentation will review current trends and recent advances in this field with an emphasis on the supporting literature and relevant clinical procedures.

At conclusion, participants should be able to:

• Identify the basic principles of the immediate loading concept.
• Describe the influence of surgical and prosthetic procedures on immediately loaded implant success.
• Apply this knowledge using current and developing concepts of immediate loading.
DIFFERENTIAL DIAGNOSIS OF PULPAL PAIN

**Moderator:** B. Ellen Byrne, D.D.S., Ph.D., Richmond, Va.

Every pain patient should force us to ask, “What if it is not a toothache? What could it be?” To answer these questions, this presentation will provide a practical overview of how to establish a differential diagnosis of odontalgia. We will review biologically based diagnostic tests that differentiate odontogenic from nonodontogenic pain; common nonodontogenic pain diagnoses, including their key characteristics and treatment approaches; and patient case reports that illustrate these concepts.

At conclusion, participants should be able to:

- Describe how nonodontogenic pain occurs and how to use this knowledge to interpret diagnostic tests.
- Establish differential diagnoses of pain patients.
- Describe the most common forms of nonodontogenic pain.

WHAT IS BRANDING ANYWAY? WHY SHOULD WE CARE?

**M. Richard Wadley**  
Long Beach, Calif.

**Moderator:** Brian Lee, D.M.D., Annandale, Va.

See page 32 for a complete session synopsis.

THE BIOLOGY OF HARD TISSUE MANAGEMENT

**Moderator:** Robert S. Roda, D.D.S., M.S., Scottsdale, Ariz.

A key objective of surgical endodontic procedures is the correct management of the bone, cementum and dentin of the periodontal architecture. A thorough understanding of the biological principles involved in the manipulation of these hard tissues will critically influence the potential for regeneration of the periodontium, and hence, affect the overall prognosis for the case. The choice of appropriate techniques and materials for the surgical procedure will, in turn, depend on a good understanding of the biology of the tissues.

At conclusion, participants should be able to:

- Explain the hard tissue biological factors that influence choice of surgical techniques and instruments.
- Discuss the tissue response to the use of local hemostatic agents and to root-end filling materials, including osteogenesis and cementogenesis.
- Decide when to use bone substitute materials and which materials to use.

MANAGEMENT OF CROWN AND ROOT FRACTURES

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

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

**Shahrokh Shabahang, D.D.S., M.S., Ph.D.**  
Loma Linda, Calif.

**Moderator:** Martin Trope, B.D.S., D.M.D., Chapel Hill, N.C.

See page 33 for a complete session synopsis.
**FRIDAY**

### Educational Sessions

#### 10:45 – 11:30 a.m.

**WORKING LENGTH: ANALYSIS OF DIFFERENT METHODOLOGIES TO LOCATE IT**  
**Moderator:** Neville J. McDonald, B.D.S., M.S., Ann Arbor, Mich.

The aim of this session is to inform professionals about the history, typology and uses of electronic apex locators. Furthermore, different existing techniques on determining working length will be shown. To begin, topics will include working length, different methods to determine it and the necessary tools. Next, different kinds of locators and their working techniques will be covered. Finally, this session will present different studies developed by the International University of Catalunya and demonstrate the utility and functionality of the mentioned methods.

At conclusion, participants should be able to:

- Discuss the history and working mechanisms of apex locators.
- Determine an accurate working length with different methods.
- Compare methods and decide which are the best to use in a daily routine.

#### 1:30 – 2:15 p.m.

**NICKEL-TITANIUM INSTRUMENTATION: THE FORGOTTEN DIMENSION**  
**Moderator:** B. Clark Dalton, D.M.D., M.S., Hilton Head Island, S.C.

Nickel-titanium rotary instruments are extremely good at cleaning the usually narrow mesiodistal dimension of root canals. However, the wider and complex buccolingual dimension of root canals remains uninstrumented due to circular preparations achieved by these instruments. This presentation will use computer animations to highlight solutions for these and other limitations of nickel-titanium instrumentation. Clinical cases using new instrument designs to achieve three-dimensional instrumentation will be presented.

At conclusion, participants should be able to:

- Assess the buccolingual and mesiodistal dimensions of root canal anatomy.
- Discuss how conventional hand and nickel-titanium rotary instrumentation fail to clean and shape the buccolingual or longest dimension of the root canals.
- Select appropriate instruments and their operational sequences to achieve complete instrumentation in both the mesiodistal and buccolingual dimensions of the root canals.
SOCIAL ETIQUETTE/DINING FOR BUSINESS AND PLEASURE

*Moderator: Jocelyn R. Lance, Richmond, Va.*

The first part of this presentation will focus on social etiquette. In the professional world today, the social skills of individuals working in any arena are important to the success of any organization. In this presentation, contemporary business/social skills will be presented. The basics of the importance of eye contact, handshaking, introductions and forms of address will be covered. Other important aspects of an office environment, such as telephone etiquette and the etiquette of technology, such as, e-mail, the Internet, fax machines and cell phones, will be included. The importance of a well-mannered staff, and how the lack thereof can impact malpractice, will also be addressed. The second half of the presentation will deal with the essentials of contemporary dining etiquette for business or social situations. It will include negotiating a light lunch to a seven-course meal. The duties of a host or hostess and guest will be discussed, as well as the etiquette of toasting and the best way to deal with difficult-to-eat food and foods that you do not like.

At conclusion, the participants should be able to:

- Describe the importance of good social skills, view their own work environment with a more critical eye and address any related issues.
- Negotiate any dining situation, formal or informal, as well as understand duties of a host or hostess.
- Apply these rules to business/social dining experiences.

*Co-sponsored by the AAE Alliance and the AAE.*

This session will not be recorded.

THE APPLICATION OF PERIODONTAL PLASTIC SURGERY IN STANDARD AND COMPLEX IMPLANT THERAPY IN THE ESTHETIC ZONE

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

Modern dental implant therapy requires not only a mere functional result, but rather a combination of good functional and esthetic results. Failure to diagnose, develop a treatment plan and execute the appropriate surgical and restorative procedures leads to disappointing esthetic results for both the patient and the involved clinicians. This presentation will describe the application of common periodontal plastic surgical procedures, including various soft tissue grafting and esthetic crown lengthening procedures, to effectively enhance the esthetic and functional outcome of dental implant therapy in the esthetic zone in standard and complex situations.

At conclusion, participants should be able to:

- Describe how the biological principles governing the esthetic appearance of the soft tissue frame surrounding natural teeth and dental implants form the basis for the correct treatment plan.
- Explain how the careful coordination of periodontal plastic surgical procedures with other surgical and restorative techniques can significantly enhance the esthetic outcome of dental implant therapy in the esthetic zone.
- Compare and contrast the indications and contraindications of utilizing periodontal plastic surgical procedures to repair esthetically compromised outcomes of dental implant therapy.
FRIDAY

Educational Sessions

1:30 – 3 p.m.

P-202  Coronado A

ACHIEVING PROFOUND MANDIBULAR ANESTHESIA

Moderator: Donna J. Mattscheck, D.M.D., Minneapolis, Minn.

All endodontists start treatment with the intention of having profound anesthesia. However, many patients experience pain during treatment. This program focuses on the research and clinical applications of several intraosseous anesthesia systems. Two important concepts that will be examined are why anesthesia fails in mandibular teeth and how to integrate routine anesthesia with leading-edge intraosseous technologies. The objective is to consistently achieve profound anesthesia for your patients.

At conclusion, participants should be able to:

• Identify and describe several intraosseous systems.
• List the advantages and disadvantages of each system.
• Develop specific procedures, using intraosseous technologies, for ensuring profound anesthesia for patients presenting with irreversible pulpitis.

ENDODONTIC CHARTING SOFTWARE


The journey from the first personal computer to the development of the electronic oral health record (EOHR) has been remarkable. Although the promise of a unified, scalable, searchable and secure lifetime patient record that documents a patient's oral condition has proven elusive, substantial progress has been made. The purpose of this session is to allow the practitioner to compare the capabilities of the charting modules offered by three software vendors.

At conclusion, participants should be able to:

• Describe how the EOHR works and compare the benefits of the different systems available for endodontic practices.
• Discuss how the EOHR can enhance efficiency, improve accuracy and make possible new tasks that would otherwise not be achievable.
• Identify the basics of inputting data and navigating three different charting systems.

S-202  Grand D/E

THE BIOLOGY OF WOUND CLOSURE AND WOUND HEALING


One of the final lectures in the Surgery track will focus on wound closure—the cell biology of how the wound heals. An array of complex surgical cases will be used to illustrate the integration of the surgical principles designed to enhance wound-healing outcomes. Complications that can occur during the surgical procedure and postoperatively that negatively impact both the short- and long-term outcomes will also be discussed.

At conclusion, participants should be able to:

• Identify when a suture material is appropriate.
• Discuss different suturing materials, needle designs and suturing techniques.
• Identify and treat both intra-operative and postoperative complications.
ROOT RESORPTION AND TREATMENT OF AVULSED TEETH


The main complication following an avulsion injury is root resorption. Some methods limiting this complication will be presented, including a tooth rescue system, immediate (extraoral) endodontics and antiresorptive-regenerative therapy. They will be analyzed by means of a long-term clinical study. Some treatment options in case of complications will be discussed. Recommendations will be given according to the distinct situation of the avulsed tooth and the injured person.

At conclusion, participants should be able to:

• Describe the pathogenesis of root resorption.
• Discuss the necessity of an immediate physiologic rescue of avulsed teeth and the importance of informing the public.
• Apply the rationale behind the presented treatment options of avulsed teeth.

1:30 – 5 p.m.

STRATEGIES FOR SUCCESS WITH DENTAL IMPLANTS: AN INTRODUCTION TO SURGICAL PLACEMENT PROTOCOLS WORKSHOP

Moderator: Gerald N. Glickman, D.D.S., M.S., J.D., Dallas, Texas

An additional fee is required to attend this course. This lecture will provide an overview of the appropriate indications and surgical applications of endosseous root-form dental implants. This program, with hands-on training in surgical protocols, will include single-tooth, partially and completely edentulous treatments. Participants will become familiar with a method for presurgical planning involving an innovative use of radiographic and surgical templates to optimize proper implant placement and minimize restorative complications. Scientific, technical and practical issues are addressed from a clinical viewpoint that provides an immediate benefit to the implant dentist in everyday practice.

At conclusion, participants should be able to:

• Define patient selection criteria for successful implant therapy.
• Fabricate a radiographic guide and surgical template to direct implant surgical position.
• Describe the various components of the surgical instrumentation kit for standard implant placement.

This session will not be recorded.

HANDS-ON SUTURING WORKSHOP


An additional fee is required to attend this course.

The course will cover the basics of suturing, suturing materials and techniques, and the healing process. Suture needle anatomy and handling will be included. The techniques of interrupted, sling, continuous sling, horizontal mattress, vertical mattress, Wallace sling and Laurell loop will be presented digitally, along with video of the techniques on pig jaws, correlated with video of patients. Indications for materials and techniques will be covered, including adhesives as sutures and instrumentation. When to remove sutures, why and how will be covered. The participant will be able to utilize the above information in a hands-on clinic performed on pig jaws.

At conclusion, participants should be able to:

• Discuss the various suture materials available.
• Choose the correct suture and needle for the procedure.
• Identify the most appropriate suture technique.

This session will not be recorded.
2:15 – 3 p.m.

THE DARK SIDE OF TECHNOLOGY: ENDODONTIC MISHAPS AND CLINICAL CALAMITIES

Moderator: B. Clark Dalton, D.M.D., M.S., Hilton Head Island, S.C.

While newer technologies have greatly increased the quality of care achievable by the clinician in endodontics, there are increasingly higher standards of knowledge required in usage and performance of many new devices. This lecture will review endodontic mishaps that, regrettably, have found their way into the legal arena with increasing frequency. The sequelae of thermal burns associated with the use of various endodontic devices including ultrasonic vibration will also be discussed, along with the consequence of overfill into neurovascular bundles, accidents associated with hypochlorite and anesthetic delivery, and evidence for intervention. The presentation will attempt to separate the “hype” of new devices from the reality of performance, as well as alert the attendee to the appropriate caveats.

At conclusion, participants should be able to:
- Describe the use of heat modalities in endodontics and their potential for injury.
- Identify the neurological deficits associated with chemical and physical injury due to sealers and anesthetics.
- List the signs and symptoms of neurological injury, and understand why and when to intervene.

3:30 – 4:15 p.m.

APICAL APPROACH TO THE PALATAL ROOT DURING ENDODONTIC MICRO_SURGERY


New microsurgical approaches have rectified all the shortcomings of traditional apical surgery, making the procedure much more predictable. In endodontic surgery, we can now locate and treat a palatal root even on a third molar with a degree of certainty not possible before. The surgery can now be performed by palatal or buccal approaches on first, second and third molars, which will be described step-by-step in this presentation. The prognosis of the procedure can be affected by the presence of serious anatomical elements, such as the maxillary sinus, palate architecture and the greater palatine vessels. A radiographic study will be used to illustrate these points.

At conclusion, participants should be able to:
- Describe how to cut the bone and locate the apex using the two approaches discussed.
- Manipulate the greater palatine vessels.
- Increase the surgery success rate and cure formerly incurable teeth.

3:30 – 5 p.m.

SOCIAL ETIQUETTE/DINING FOR BUSINESS AND PLEASURE

Karen Hickman
Fort Wayne, Ind.

Nancy Sweet
Fort Wayne, Ind.

Moderator: Jocelyn R. Lance, Richmond, Va.

See page 37 for a complete session synopsis.
ACCELERATED DENTAL IMPLANTS
Moderator: Jordan L. Schweitzer, D.D.S., M.S., Dallas, Texas

New technology and innovative approaches have resulted in a shorter amount of time from placement to restoration, often allowing both to take place during the same day. This lecture will cover the science available on this subject, with an emphasis on clinical applications. Techniques that allow the routine use of these approaches will be demonstrated. Specific information on implant choice, surgical technique, as well as prosthetic approaches, will be covered.

At conclusion, participants should be able to:
• Describe the basics of immediate implant placement, immediate loading and a combination of the two approaches.
• Prepare, diagnose and treatment plan patients who may be candidates for these procedures.
• List the benefits and risks of each of these methods.

This session will not be recorded.

INTRAOSSEOUS ROUTES OF INJECTION WORKSHOP
Moderator: Kenneth M. Hargreaves, D.D.S., Ph.D., San Antonio, Texas

An additional fee is required to attend this course.

Intraosseous anesthesia has helped many endodontists achieve profound anesthesia during endodontic treatment. This workshop focuses on the clinical applications of the several intraosseous anesthesia systems. Using models and pig jaws, each participant will have the opportunity to practice with these intraosseous anesthesia systems.

At the conclusion, participants should be able to:
• Identify and use several intraosseous systems.
• Determine the clinical advantages and disadvantages of each intraosseous system.
• Develop specific procedures, using intraosseous technologies, for ensuring profound anesthesia for patients presenting with irreversible pulpitis.

This session will not be recorded.

DIGITAL RADIOGRAPHY

Digital radiography has been slowly gaining acceptance among dental practitioners and has recently seen increasing popularity in the medical imaging world as computers and software improve. Key advantages of digital radiography are: 1) reduced radiation; 2) image optimization and computer-aided feature extraction; 3) speed of image availability; 4) no shipping, darkroom or chemical processing errors; 5) improved electronic communications; 6) environmental waste reduction; 7) security of off-site backup; and 8) enhanced appearance of practice technology. These attributes will be demonstrated by three company representatives.

At conclusion, participants should be able to:
• Describe how digital radiography works and compare the benefits of different systems available for endodontic practices.
• Describe how three digital radiography systems capture, store and present images.
• Evaluate the attributes of digital radiography systems offered by the three vendors.
3:30 – 5 p.m. (continued)

TESTING THE LIMITS OF ENDODONTIC TREATMENT

All endodontists have treated cases that will never be forgotten. Either the patient, the difficulty or the circumstances made a particular case memorable. Nine practicing endodontists with more than 300 collective years of experience will each share a memorable case that tested their knowledge, skills, discipline, courage, experience and, to no lesser degree, the healing potential of the 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 treatment 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.

This session will not be recorded.

Additional Participants:
L. Stephen Buchanan, D.D.S.  Constantinos Laghios, D.D.S.
Ronald I. Deblinger, D.M.D.  Ronald R. Lemon, D.M.D.

INTENTIONAL REPLANTATION: THE IN VIVO SURGICAL ALTERNATIVE


Resorption is a significant complication of intentionally replanted teeth as a result of root surface dehydration. A new technique, developed and refined by the presenter, addresses and eliminates this cause of failure. This procedure will be presented in a multimedia format, summarizing 20 years of recalled cases and success/failure statistics.

At conclusion, participants should be able to:

• Describe the mechanics and biological basis of the described intentional replantation technique.
• Incorporate this technique in their surgical practices using readily obtained instrumentation and reagents.
• Describe the complications and the strategies to minimize or eliminate them.

ROOT RESORPTION AND TREATMENT OF AVULSED TEETH

Yango Pohl, D.D.S., Ph.D.
Bonn, Germany

Martin Trope, B.D.S., D.M.D.
Chapel Hill, N.C.


See page 39 for a complete session synopsis.
THE HIDDEN ANATOMY OF THE BIFURCATED MAXILLARY PREMOLAR


Root morphology is a major predisposing factor in vertically fractured, endodontically treated teeth, especially in the maxillary premolars, which are considered the teeth most susceptible to cracks and fractures. In the bifurcated maxillary premolars, the root walls are known to be originally thin, rapidly tapering towards the apex with proximal invaginations. New morphological studies will be presented that show the buccal root of the bifurcated maxillary premolar is not round in cross-section, but has a furcation groove depression on its palatal (bifurcation) aspect, and the original dentin thickness is less than 1mm in width in certain locations. Additional dentin removal during intraradicular procedures is hazardous at these locations. The unfavorable anatomy, combined with the amount of remaining dentin thickness after root canal preparation, could be determining factors for fracture, especially during post placement.

At conclusion, participants should be able to:

• Describe the typical anatomic features of the bifurcated maxillary premolars.
• Describe and identify the furcation groove of the buccal root.
• Apply the information to the practice of intraradicular operative procedures.
8 – 9:30 a.m.

ESTHETIC CONSIDERATIONS AFTER TRAUMATIC INJURIES

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

Restoring esthetics is essential after a traumatic injury and involves reconstruction of a surviving traumatized tooth or the replacement of the lost tooth. The presentation will provide indications and limitations of resin-based composites as both interim and permanent restoration of fractured anterior teeth. A brief description of available fiber-based intracanal post systems and the advantages and disadvantages of different treatment alternatives for traumatically lost incisors will also be covered, including orthodontic space closure, autotransplantation of developing premolars, single-tooth implants and cantilever prosthetics. Space closure will combine esthetic dentistry and detailed orthodontic treatment.

At conclusion, participants should be able to:

- Discuss the advantages and disadvantages of composites, and recognize the most effective adhesives as restorative options to repair traumatized anterior teeth.
- Describe the benefits of autotransplantation of developing premolars.
- Compare and contrast the different treatment alternatives for lost incisors in order to select the optimal option for each individual case.

8 – 11:30 a.m.

STRATEGIES FOR SUCCESS WITH DENTAL IMPLANTS: AN INTRODUCTION TO SURGICAL PLACEMENT PROTOCOLS WORKSHOP

**Moderator: Gerald N. Glickman, D.D.S., M.S., J.D., Dallas, Texas**

An additional fee is required to attend this course. Repeated workshop; see page 39 for a complete session synopsis.

This session will not be recorded.

9:45 – 11:15 a.m.

DAM-IT, IT’S EASY! WORKSHOP

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

An additional fee is required to attend this course.

This seminar is intended for those who possess basic dental dam application skills and wish to expand their usage of the dam for more complicated isolations. The program presents a brief review of simplified application techniques that expedite dam placement, such as the winged and modified winged techniques. Advanced techniques presented, include guidelines to prevent dam leakage, clampless alternatives to retaining the dental dam, isolating structurally compromised teeth and using the dental dam with fixed bridges and laminate veneers. In addition, participants will apply a dental dam to typodont models utilizing some of the advanced techniques discussed in the program.

At conclusion, participants should be able to:

- Describe and implement two techniques that expedite dental dam placement.
- Explain how to prevent dental dam leaks and how to remedy the problem.
- List several options for retaining the dental dam, and describe and implement at least two techniques for isolation of areas that include fixed bridges.

This session will not be recorded.
DEALING WITH DIFFICULT PATIENTS/PERSONALITY DISORDERS


This session will review several examples of difficult patient personality presentations in the office setting, followed by a discussion of the characteristics or behaviors that make running an efficient office and schedule more difficult. The lecture will end with a brainstorming session to come up with effective ways to manage these situations, as well as a look at the underlying principles that guide how we interact with difficult patients.

At conclusion, participants should be able to:

• Describe key behaviors that alert staff to identify patients with personalities that are more challenging in the office (and clinical) setting.
• Identify personal reactions that may contribute to the escalation of a situation.
• Identify effective and respectful ways to work with patients whose behaviors are problematic.

PERSPECTIVES ON IMPLANTS

Moderator: Gerald N. Glickman, D.D.S., M.S., J.D., Dallas, Texas

Experienced clinicians in endodontics, periodontics and restorative dentistry will present their insight and perspectives on endodontic treatment and implants. Issues relative to decision making and case selection, financial considerations, function and prognosis will be highlighted. Following the presentations, there will be open discussion between the panel members and members of the audience.

At conclusion, participants should be able to:

• Cite various treatment modalities for compromised teeth.
• Discuss inter-relationships between endodontic, periodontal and restorative concerns.
• Discuss the value of implants in clinical dentistry.
9:45 – 11:15 a.m. (continued)

**PM-300  Cortez A/B**

**ENDODONTIC PRACTICE MANAGEMENT: A FORUM FOR ENDODONTISTS AND THEIR MANAGERS**


Many endodontists and practice managers have listened to experts and consultants discuss the various aspects of running a practice. However, piecing together a successful practice from all of the advice can be a challenge. This program will bring together four endodontists and their practice managers to discuss some common problems. Each practice will discuss their way of managing a problem and the others will comment on their solution. The audience of endodontists, practice managers and staff will be invited to participate in the discussion.

At conclusion, participants should be able to:

- Compare the management structures created in several endodontic practices.
- Discuss how creating a management structure within the practice can help them solve business problems and get on with practicing endodontics.
- Network with endodontists and managers whom they have met in this session.
PRIVATE PRACTICE ENDODONTICS: GROWTH, CHARACTERISTICS AND THE FUTURE OF ENDODONTIC CARE

Moderator: Jung Lim, D.D.S., Northridge, Calif.

This presentation will examine the importance of endodontic care in a $65 billion dental industry. Growth of the endodontic practice will be examined and the likelihood of future growth will be discussed. Highlights of several issues related to the practice, including the importance of practice location, patient demand for care, referrals, number of cases and workload, staffing, time spent providing treatment and financial issues over the life-span of a practice, will be presented.

At conclusion, participants should be able to:

• Describe the basic reasons for growth in the number of practicing endodontists and implications for the practice to continue to grow in the future.
• Identify with how the practice issues discussed might differ in their own practice from the patterns and trends presented, and the implications thereof. Residents will be able to identify several practice management issues to consider as they enter into and begin practicing as an endodontist.
• Discuss patient demand and important characteristics associated with patients who seek endodontic treatment.

GUTTA-PERCHA: THE END OF AN ERA?

Moderator: Thomas M. Buttke, D.D.S., Ph.D., Nags Head, N.C.

The aim of root canal filling material is to seal in remaining bacteria or prevent further bacterial invasion in the canal. Gutta-percha can fail in these functions. 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. This lecture will outline the biological requirements for successful endodontics. The shortcomings of gutta-percha and the improvements offered by thermoplasticized resin will be discussed.

At conclusion, participants should be able to:

• Discuss the importance of optimal filling of the canal.
• Describe the shortcomings of gutta-percha fills.
• Describe the advantages of thermoplasticized resin as a filling material.

THE BIOLOGICAL BASIS FOR DIAGNOSIS AND TREATMENT PLANNING

Endodontists practice clinical diagnosis by evaluating signs and symptoms that originate from the biological mechanisms of resorption and inflammation. Three subcategories within endodontics that require a quick and accurate diagnosis in order to achieve a favorable outcome are: the periapical abscess, nonodontogenic periapical lesions and traumatically injured teeth. The cases to be presented will take on an added dimension by including pertinent histopathology and a relevant literature review.

At conclusion, participants should be able to:

• Discuss histopathology and immunology of the periapical abscess.
• Describe lesions that are nonendodontic in origin.
• Diagnose and treat traumatic injuries of the teeth.
9:45 – 11:15 a.m. (continued)

ESTHETIC CONSIDERATIONS AFTER TRAUMATIC INJURIES

Andre V. Ritter, D.D.S., M.S.D.
Chapel Hill, N.C.

Bjorn U. Zachrisson, D.D.S., M.S.D., Ph.D.
Oslo, Norway


Please see page 44 for a complete session synopsis.

2 – 3:30 p.m.

DAM-IT, IT’S EASY! WORKSHOP

Mary R. Costello
Canton, Ohio

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

Continued workshop; please see page 44 for a complete session synopsis.

DEPRESSION AND ANXIETY: SYMPTOMS AND MANAGEMENT


Working with depressed and anxious patients is common in clinical practice. This presentation will discuss reassuring, truthful and effective ways to communicate with patients in order to help them be more accepting and tolerant of uncomfortable procedures; respectful, safe and humane ways to work with patients with substance abuse problems; and working with coworkers who may have some of these difficulties. HIPAA policies are basic to these interactions. This session will discuss case studies and outline basic principles of appropriate interaction.

At conclusion, participants should be able to:

• Describe the symptoms of depression and anxiety.
• Identify treatment and management options to deal with patients or coworkers with these symptoms.
• Describe effective ways to assist patients or coworkers who may be experiencing depression or anxiety.

PRACTICE TRANSITION STRATEGIES: A DISCUSSION FOR ENDODONTISTS AND RESIDENTS


An endodontist's practice is often his or her most valuable single asset. Successful practice transitions rely on a carefully orchestrated plan. Preparing for changes in ownership may require the services of a practice broker, an accountant, an attorney, a practice appraiser and sometimes a practice management consultant. This session will address the complex issues facing the prospective purchaser and seller. The audience of endodontists and residents will be invited to participate in the discussion.

At conclusion, participants should be able to:

• Describe the life cycle of the endodontic practice and the importance of peak value.
• Describe the importance of a clear transition strategy with special emphasis on fair market value.
• List the benefits of a complete financial analysis.
PRINCIPLES OF OFFICE DESIGN
Moderator: Erick R. Menegazzo, D.D.S., Dallas, Texas
This course is intended for anyone planning a change in their office environment, whether leasing, buying, remodeling or constructing a new building. Learn how to create not only an attractive office, but one with appropriate zoning of public and private activities in combination with unimpeded flow. Plan to produce as much as you choose while enjoying less stress. It costs more to build it wrong than it does to build it right!

At conclusion, participants should be able to:
- Develop a design program reflective of how the participant intends to practice.
- List the contributions required from the team of professionals necessary to accomplish the doctor's facility goals.
- Describe the role of the facility in communicating the practitioner's quality of service.

REPAIR OF ENDODONTICALLY TREATED TEETH HAVING INTERNAL PARTIAL VERTICAL ROOT FRATURES
This presentation will introduce the endodontist to a method of retaining an endodontically treated tooth having an internal vertical root fracture that does not extend to the PDL. The discussion will include the methodology of case selection and a description of materials used. The physical principles governing the rationale behind the use of these materials will be covered. Videos will show details of restorative procedures and the presentation will include pre- and postoperative and recall radiographs.

At conclusion, participants should be able to:
- Describe the criteria for case selection.
- Explain the aspects of the laws of physics that govern successful treatment.
- Apply advanced bonding techniques necessary to restore a tooth with an internal partially vertically fractured root.

EDUCATOR FORUM: DEVELOPING “FOUNDATION KNOWLEDGE” FOR PREDOCTORAL ENDODONTIC CURRICULA
Moderator: John R. Ludington Jr., D.D.S., Houston, Texas
This session will address the American Dental Education Association plan for redefining foundation guidelines for predoctoral dental education programs. With revised Accreditation Standards for Dental Education Programs and greater emphasis on competencies defined by each dental school, basic and clinical science disciplines are finding a need to define the topics that should be included in the curriculum. Based on their own experiences, the presenters will provide information on how we can best define what material to include in the predoctoral endodontic curriculum.

At conclusion, participants should be able to:
- Describe the ADEA plan for redefining predoctoral dental education programs.
- Summarize a process for defining predoctoral dental education program foundation knowledge.
- Define what should be included in a predoctoral endodontic curriculum.
Educational Sessions

2 – 3:30 p.m. (continued)

mCT IMAGING IN ENDODONTICS

**Moderator: Linda G. Levin, D.D.S., Ph.D., Chapel Hill, N.C.**

Since 1988, the ultra-high resolution images (5-50 microns) captured by *in vitro* micro-CT scanning have been used to great effect in endodontic anatomic research as well as for instrumentation studies. Recently introduced fan beam mCT machines, with nine-second scan times, now offer volumetric imaging for patients, improving the possibilities of accurate diagnosis and treatment planning of conventional, retreat, and surgery cases.

At conclusion, participants should be able to:

- Discuss the physics of computerized tomography and the use of reconstructive software to view slices of the x-ray volumes.
- Describe volumetric imaging data for accurate diagnosis and treatment planning.
- List past and recent examples of mCT imaging from research and clinical cases presented, with an emphasis on data that could not be seen without this technology.

CONSERVATIVE AND ESTHETIC RESTORATION OF FRACTURED ANTERIOR TEETH WITH COMPOSITE RESINS WORKSHOP

**Moderator: Alessandra L. Ritter, D.D.S., M.S., Chapel Hill, N.C.**

An additional fee is required to attend this course.

This workshop will provide participants with the opportunity to learn about and use the latest technology in composite resins and dental adhesives. A brief presentation, highlighting keys to success when using adhesives and composites for the esthetic and conservative restoration of fractured anterior teeth will precede the hands-on session. Participants will then place at least one large anterior composite restoration using the latest adhesive technology and composite layering concepts for optimum function and esthetics.

At conclusion, participants should be able to:

- Identify the different types of dental adhesives available today, including self-etching adhesives systems, as well as recognize their advantages, disadvantages, indications and limitations.
- Describe what composite resins work best for the restoration of anterior teeth and how to handle them properly.
- Apply contemporary tooth preparation, matricing and composite placement, and composite finishing and polishing techniques.

*This session will not be recorded.*

PLACEMENT OF MTA WORKSHOP

**Moderator: Martin Trope, B.D.S., D.M.D., Chapel Hill, N.C.**

An additional fee is required to attend this course.

Immature teeth requiring endodontic treatment present many challenges. Long-term apexification procedures are highly successful, but patient compliance and root fracture are compromising issues. Alternatively, placement of MTA as an apical barrier has gained popularity. This hands-on course will review the devices and techniques available for the placement of apical barriers.

At conclusion, participants should be able to:

- Describe the basic physical working properties of MTA.
- Apply this knowledge toward placement in a clinical situation, such as incompletely developed teeth.
- Compare and contrast the various mechanisms and delivery systems for MTA placement.

*This session will not be recorded.*
THURSDAY

10:30 – 11:45 a.m. De La Salle

EPIDEMIOLOGY/CLINICAL RESEARCH
Endodontist Section
Moderator: Al Reader, D.D.S., M.S., Columbus, Ohio

10:30 a.m.
OR 1
Endodontic Treatment Outcomes in a Large Patient Population in the USA: An Epidemiological Study
Robert Salehrabi, D.D.S. (Presenter)
I. Rotstein, University of Southern California

10:45 a.m.
OR 2
Implant or Endodontic Treatment: Can Decision Aids Increase Patient Knowledge and Satisfaction?
Bradford R. Johnson, D.D.S. (Presenter)
University of Illinois at Chicago

11 a.m.
OR 3
Mandibular Infiltration With Articaine is Superior to the Traditional Inferior Alveolar Nerve Block With Lidocaine
Matthew B. Walsh, D.M.D. (Presenter)
A.S. Ro, L.E. Braitman, L. Hicks, Albert Einstein Medical Center

11:15 a.m.
OR 4
The Effects of a Two-Stage Injection on Inferior Alveolar Nerve Block Injection Pain
John M. Nusstein, D.D.S., M.S. (Presenter)
G. Steinkruger, A. Reader, M. Beck, J. Weaver, Ohio State University

11:30 a.m.
OR 5
Prevalence of Apical Periodontitis in Adult Italian Population
Elisabetta Cotti, D.D.S., M.Sc. (Presenter)
F. Tagliaferri, M. Mereu, C. Dettori, University of Cagliari, Italy

10:30 a.m. – noon De Soto A/B

MICROBIOLOGY/MOLECULAR BIOLOGY I
Graduate Student Section

10:30 a.m.
OR 6
Real-Time Quantitative PCR and Culture Analyses of Enterococcus Faecalis in Primary and Refractory Endodontic Infections
John M. Williams, D.D.S. (Presenter)
M. Trope, M. Helfernan, D.C. Shugars, University of North Carolina

10:45 a.m.
OR 7
16S Cloning and Sequencing of the Periradicular Lesion and Resected Root-End
Kumar Subramanian, B.D.S., M.S.D. (Presenter)
A. Mickel, A. Griffen, P. Kumar, E. Leys, ‘University of Kentucky, ‘Case Western Reserve University and ‘Ohio State University

11 a.m.
OR 8
Enterococcus spp. in Endodontically Treated Teeth With and Without Periradicular Lesions
Blythe M. Kaufman, D.M.D. (Presenter)
L.S.W. Spångberg, A. Fouad, ‘University of Connecticut and ‘University of Maryland

11:15 a.m.
OR 9
A Real Time Quantitative PCR Analysis of COX1 and COX2 Enzymes in Inflamed Dental Pulp
Claudia Holt, D.D.S., M.S. (Presenter)
R. Pileggi, M. Hutchins, University of Texas, Dental Branch, Houston

11:30 a.m.
OR 10
Comparative Evaluation of Endodontic Irrigants Against E. Faecalis Biofilm
Thomas R. Dunavant, D.D.S. (Presenter)
J.D. Regan, G.N. Glickman, E.S. Solomon, A.L. Honeyma, Baylor College of Dentistry
This session will not be recorded.

11:45 a.m.
OR 11
Effects of Various Concentrations and Combinations of Chlorhexidine and Citric Acid on Enterococcus Faecalis-Infected Teeth
Manouchehr Pouresmail, D.M.D. (Presenter)
S. Shabahang, M. Torabinejad, Loma Linda University

1:30 – 2:30 p.m. De La Salle

BIOCOMPATIBILITY/IN VIVO/IN VITRO STUDIES
Endodontist Section
Moderator: John S. Olmsted, D.D.S., M.S., Greensboro, N.C.

1:30 p.m.
OR 12
The Biocompatibility of Three Root-End Filling Materials in Rat Connective Tissue
Shahriar Shahi, D.D.S., M.Sc. (Presenter)
Tabriz University of Medical Sciences, Iran

1:45 p.m.
OR 13
Effects of Orifice Plugs on the Periapical Inflammation in Dogs
Shizuko Yamauchi, D.D.S., M.S. (Presenter)
G. Shipper, T. Butlke, M. Yamauchi, M. Trope, University of North Carolina
2 p.m.  
OR 14  
Healing of Apical Periodontitis in Dogs After Endodontic Treatment With and Without Obturation  
Mohammad A. Sabeti, D.D.S.1 (Presenter)  
M. Nekofar2, J. Simon1, 1University of Southern California and  
2University of Tehran, Iran  
2:15 p.m.  
OR 15  
The Effect of Chamomile and Tea Tree Oil as Irrigation Solutions on Removal of Smear Layer  
Masoumeh Sadr Lahijani, D.D.S., M.S. (Presenter)  
H.R. Raof, S. Stowe, R. Heady, Rafsanjan University of Medical Sciences, Iran

1:30 – 3 p.m.  
De Soto A/B  
CLINICAL INSTRUMENTATION AND OBTURATION  
Graduate Student Section  
1:30 p.m.  
OR 16  
Comparison of Microleakage of Two Obturation Materials  
Rakesh Raina, D.D.S. (Presenter)  
R.J. Loushine, R.N. Weller, D.H. Pashley, Medical College of Georgia  
1:45 p.m.  
OR 17  
An Evaluation of the Root ZX and the Elements Diagnostic Apex Locators  
Marat Tselnik, D.D.S. (Presenter)  
J. Baumgartner, G. Marshall, Oregon Health & Science University  
2 p.m.  
OR 18  
A Fluid Filtration Comparison of Gutta-Percha Versus Resilon: A New Soft Resin Endodontic Obturation System  
Ryan K. Stratton, D.M.D. (Presenter)  
2:15 p.m.  
OR 19  
Cohesive Strength of Resilon and Other Dental Polymers  
Michael C. Williams, D.M.D. (Presenter)  
R.J. Loushine, R.N. Weller, D.H. Pashley, Medical College of Georgia  
2:30 p.m.  
OR 20  
Evaluation of Thermal Changes in Teeth Obturated With Thermoplastic Materials  
Kavita Patil-Doddamane, D.M.D. (Presenter)  
J.A. Griggs, S. Bruce, J.D. Shulman, G.N. Glickman, Baylor College of Dentistry  
This session will not be recorded.  
3:30 – 5 p.m.  
De La Salle  
LOCAL ANESTHESIA/INSTRUMENTATION  
Graduate Student Section  
Moderator: Graham R. Holland, B.D.S., Ph.D., Ann Arbor, Mich.  
3:30 p.m.  
OR 22  
Incidence of Internal Resorption in Patients Referred for Endodontic Therapy  
Emily E. Kelly, D.M.D. (Presenter)  
J.P. Scheetz, S.J. Clark, University of Louisville  
3:45 p.m.  
OR 23  
Effectiveness of Conventional Anesthetic Techniques in Patients With Symptomatic Necrotic Teeth  
Saadia Bukhari Meyers, D.D.S., M.S. (Presenter)  
J.M. Nusstein, A. Reader, M. Beck, J. Weaver, Ohio State University  
4 p.m.  
OR 24  
The Effects of Needle Bevel Orientation on Success of the Inferior Alveolar Nerve Block  
Geoffrey Steinkruger, D.D.S., M.S. (Presenter)  
J.M. Nusstein, A. Reader, M. Beck, J. Weaver, Ohio State University  
4:15 p.m.  
OR 25  
Articaine for Supplemental Intraosseous Anesthesia in Patients With Irreversible Pulpitis  
John J. Bigby, D.D.S., M.S. (Presenter)  
A. Reader, J.M. Nusstein, M. Beck, Ohio State University  
4:30 p.m.  
OR 26  
Anesthetic Efficacy of Lidocaine/Meperidine in Inferior Alveolar Nerve Blocks  
Amanda Goodman, D.D.S., M.S. (Presenter)  
A. Reader, J.M. Nusstein, M. Beck, J. Weaver, Ohio State University  
4:45 p.m.  
OR 27  
A Retrospective Clinical Study of Incidence of Root Canal Instrument Separation in an Endodontic Graduate Program  
Meetu Kohli, D.M.D. (Presenter)  
J. Kim, M. K. Iqbal, S. Kim, University of Pennsylvania
3:30 – 5 p.m.  De Soto A/B

**MICROBIOLOGY/MOLECULAR BIOLOGY II**
**GRADUATE STUDENT SECTION**


**3:30 p.m.**
**OR 28**

*The Minimum Bactericidal Concentration of Triclosan Against Five Endodontic Specific Pathogens*

William J. Nudera, D.D.S. (Presenter)
University of Illinois at Chicago

**3:45 p.m.**
**OR 29**

*Removal Efficiency of Calcium Hydroxide Intracanal Dressing*

Jin-Seon Song, B.D.S. (Presenter)
I. Chen, S. Kim, M.K. Iqbal, University of Pennsylvania

**4 p.m.**
**OR 30**

*The Effect of Calcium Hydroxide Paste as an Intracanal Medication on Canal Leakage Using Two Resin Sealers*

Kristi R. Detwiler, D.D.S. (Presenter)
B.R. Johnson, C.R. Neach, S.H. Ashrafi, E.A. BeGole, R. Prescott,
University of Illinois at Chicago

**4:15 p.m.**
**OR 31**

*The Antimicrobial Effect of Chloroform on Enterococcus Faecalis Following Gutta-Percha Removal*

Scott W. Edgar, D.M.D. (Presenter)
Oregon Health & Science University

This session will not be recorded.

**4:30 p.m.**
**OR 32**

*Antimicrobial Efficacy of Medicated Root Canal Filling Materials*

Kevin B. Melker, D.D.S. (Presenter)
University of Florida

**4:45 p.m.**
**OR 33**

*Assessment of a Plant Extract for E. Faecalis Antimicrobial Activity*

Romi M. Farber, D.D.S. (Presenter)
K.A. Namerow, P.E. Murray, J. Coffman, F. Garcia-Godoy, S. Kuttler,
Nova Southeastern University

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8 a.m.
**OR 34**

*Antifungal Activity of White-Colored Mineral Trioxide Aggregate Against Candida Albicans In Vitro*

Jafar Naghshbandi, D.D.S., M.S. (Presenter)
K. Al Hezaimi, K. Al Hamdan, S. Oglesby, J. Simon, I. Rotstein

'Former Resident, University of Southern California, 'King Saud University, Riyadh, Saudi Arabia and 'University of Southern California

**8:15 a.m.**
**OR 35**

*CD44 Adhesion Molecule in Human Dental Pulp*

Gabriela V. Pisterna, D.D.S. (Presenter)
M. Siragusa, M. Arrigo, 'Faculty of Dentistry, Universidad Nacional
de Rosario, Argentina and 'Faculty of Biochemistry, Universidad Nacional
de Rosario, Argentina

This session will not be recorded.

**8:30 a.m.**
**OR 36**

*Cytotoxicity of Different Resin and Silicone-Based Root Canal Filling Materials: An In Vitro Study*

Benjamin Briseño Marroquin, D.D.S., M.S.D., Ph.D. (Presenter)
C. Cortázár Fernández, B. Willershausen, University of Mainz, Germany

**8:45 a.m.**
**OR 37**

*The Effects of Temperature on Sodium Hypochlorite Short-Term Stability, Pulp Dissolution Capacity and Antimicrobial Efficacy*

George Sirtes, D.M.D. (Presenter)
Zürich, Switzerland

**9 a.m.**
**OR 38**

*Human Saliva Penetration of Root Canals Obturated With Two Types of Mineral Trioxide Aggregate Cements*

Khalid Al Hezaimi, B.D.S. (Presenter)
J. Naghshbandi, S. Oglesby, J. Simon, I. Rotstein, 'King Saud University, Riyadh, Saudi Arabia, 'Former Resident, University of Southern California and 'University of Southern California

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8 – 9:30 a.m.  De Soto A/B

**CLINICAL OUTCOMES/EPIDEMIOLOGY**
**Graduate Student Section**


**8 a.m.**
**OR 39**

*The Toronto Study: Outcome of Initial Endodontic Filling Treatment – Phase 3*

Vincent L. Marquis, D.M.D. (Presenter)
M. Farzaneh, S. Abitbol, S. Friedman, University of Toronto,
Ontario, Canada
8 – 9:30 a.m. (cont.)

8:15 a.m.
OR 40
The Effect of Tooth Vitality on the Survival of Single Indirect Restorations Among Insured Adults
Abdullah S. Al-Swuailem, B.D.S., M.S. (Presenter)
S.A. Eklund, N.J. McDonald, University of Michigan

8:30 a.m.
OR 41
Variables Affecting Endodontic Recall
Christopher L. Ross, D.M.D. (Presenter)
J.P. Scheetz, S.J. Clark, University of Louisville

8:45 a.m.
OR 42
A Retrospective Study of Different Factors Affecting the Prognosis of Nonsurgical Root Canal Treatment
Baokhoi Bui, D.D.S. (Presenter)
A.S. Lim, M. Iqbal, S. Kim, University of Pennsylvania

9 a.m.
OR 43
The Difference Between the In Vivo Working Length Established by Radiograph and In Vivo Measurement After Extraction
Clayton B. Williams, D.D.S. (Presenter)

9:15 a.m.
OR 44
Interobserver Reliability in the Diagnosis of Pulpal and Periradicular Disease
Todd Mellin, D.M.D. (Presenter)
R.E. Bogacki, B.E. Byrne, Virginia Commonwealth University

This session will not be recorded.

10 – 11:30 a.m. De La Salle

IN VITRO STUDIES
Endodontist Section

10 a.m.
OR 45
Chelation in Root Canal Therapy Reconsidered
Matthias Zehnder, D.M.D.1 (Presenter)
P. Schmidlin1, T. Waltimo1, University of Zürich, Switzerland and 2University of Basel, Switzerland

10:15 a.m.
OR 46
Effect of Immersion in Sodium Hypochlorite on Resistance to Torque and Cyclic Fatigue of NiTi Rotary Instruments
Ove A. Peters, D.M.D., M.S.1 (Presenter)
J. Roehlke1, M. A. Baumann1, ‘Division of Endodontics, University of California, San Francisco, ‘Orthodontic Department, University of Cologne, Germany and ‘Department of Operative Dentistry & Periodontology, University of Cologne, Germany

10:30 a.m.
OR 47
Protection of Endodontic Filling Remaining After Post Space Preparation
Martha Siragusa, D.D.S., Ph.D.1 (Presenter)
P. Spoleti1, F. Cantarelli1, M.J. Spoleti1, ‘Faculty of Dentistry, Universidad Nacional de Rosario, Argentina and ‘Faculty of Biochemistry, Universidad Nacional de Rosario, Argentina

This session will not be recorded.

10:45 a.m.
OR 48
Impact of Dentin Condition on the Penetration of a Final Root Canal Irrigant
Frank Paqué, D.M.D. (Presenter)
H. Luder, M. Zehnder, University of Zürich, Switzerland

11 a.m.
OR 49
Evaluation of Upper First Premolars Root Thickness (In Vitro)
Nahid S.Z. Mohammadzadeh Akhlaghi, D.D.S., M.S. (Presenter)
S. Safari, Islamic Azad University, Tehran, Iran

11:15 a.m.
OR 50
Determination and Clinical Relevance of the Distance Between the Cementoenamel Junction and Begin of the Root Canal Curvature in Maxillary Premolars
Brita Willershausen, D.D.S., M.S.D., D.Sc. (Presenter)
H. Tekyatan, B. Briseño Marroquin, Johannes Gutenberg University, Mainz, Germany

10 – 11:30 a.m. De Soto A/B

MOLECULAR BIOLOGY/BASIC RESEARCH
Graduate Student Section
Moderator: John M. Nusstein, D.D.S., M.S., Dublin, Ohio

10 a.m.
OR 51
Interleukin-1ß Downregulates the Expression of TRPV1 mRNA in Rat Trigeminal Neurons
Asma A. Khan, B.D.S., Ph.D. (Presenter)
K.M. Hargreaves, University of Texas Dental School, San Antonio

This session will not be recorded.

10:15 a.m.
OR 52
SIBLING Proteins in Reactionary Dentin of Rat Molars at Different Ages
Kyle D. Moses, D.D.S. (Presenter)
W.T. Butler, C. Qin, University of Texas, Dental Branch, Houston

10:30 a.m.
OR 53
Enamel Matrix Derivative Stimulates the Release of Growth Factors by Human and Mouse Osteoblasts
Amy Lee, D.M.D.1 (Presenter)
J. He1, J. Jiang1, Q. Zhu1, ‘University of Connecticut and ‘Baylor College of Dentistry
Effect of Storage Media on Periodontal Ligament Cell Apoptosis
Monica M. Chamorro, D.D.S. (Presenter)
J.D. Regan, L.A. Opperman, P. Kramer, Baylor College of Dentistry
This session will not be recorded.

Comparison of Dentin Bond Strengths of Bacterially Contaminated Dental Unit Water Versus Experimental Oxidizing Agent-Cleaned Water
Andrew R. Drerup, D.D.S. (Presenter)
M.M. Nunez, J.C. Broome, R.D. Barfield, P.D. Eleazer, University of Alabama
This session will not be recorded.

Fracture Resistance of Human Root Dentin Exposed to Intracanal Calcium Hydroxide
Glen E. Doyon, D.M.D. (Presenter)
T. Dumsha, J.A. von Fraunhofer, University of Maryland

An In Vitro Comparison of the Setting Time of MTA With and Without Water
Craig D. Johnson, D.D.S. (Presenter)
Marquette University

Remaining Dentin Thickness in the Apical Four Millimeters Following Four Cleaning and Shaping Techniques
Paul J. Weller, D.D.S., M.S. (Presenter)
T.A. Svec, J.M. Powers, J.R. Ludington, J.A. Suchina, University of Texas, Dental Branch, Houston

Leakage of Root-End Super EBA, MTA and Geristore Restorations in Teeth Previously Stored in 10% Formalin
Michael R. Pichardo, D.D.S. (Presenter)
S.W. George, B.E. Bergeron, B.G. Jeansson, ’Keesler U.S.A.F. Medical Center, Biloxi, Miss., and Louisiana State University, ’Keesler U.S.A.F. Medical Center, Biloxi, Miss., and ’Louisiana State University
This session will not be recorded.
FRIDAY
8 – 11:30 a.m.  Trinity I

GRADUATE STUDENT SECTION

PR 1
Nonsurgical Retreatment Success of Teeth Previously Obturated With Silver Points
Paul L. Abbott, D.M.D.
University of Louisville

PR 2
The Effect of Intracanal Anti Inflammatory Medicaments on External Root Resorption of Replanted Dog Teeth After Extended Extraoral Dry Time
Hong Chen, D.M.D., M.S.
University of North Carolina

PR 3
The Effect of Operator Experience in Locating MB2 Canals in Maxillary Molars
James R. Corcoran, D.D.S.
U.S. Army Dental Activity, Ft. Bragg, N.C.

PR 4
Regulation of Tension-Induced Mechanotranscriptional Signals Through b1 Integrins
Mario D’Addario, D.D.S., Ph.D.
University of Toronto, Ontario, Canada

PR 5
Incidence and Location of Odontogenic Sinus Tracts
Hilary Dunstan, D.D.S.
University of Louisville

PR 6
The Influence of Preparation Size on the Mechanical Efficacy of Root Canal Irrigation In Vitro
Kenneth W. Falk, D.D.S.
University of Michigan

PR 7
Retreatment of Root Canals Filled With Resilon: A Scanning Electron Microscopic Evaluation
Manuel R. Gomez, D.D.S.
University of Iowa

PR 8
Examination and Comparison of Torsional Fatigue Profiles of Rotary Nickel-Titanium Files of Varying Size and Design
Ashkan Hafezi, D.M.D.
University of Toronto, Ontario, Canada

PR 9
Post Retention With Mineral Trioxide Aggregate and Accelerated Portland Cement
Pamela P. Harrington, D.D.S.
West Virginia University

PR 10
Assessment of Pulpitis Caused by Tooth Preparation and Restoration
Jayson S. Hartman, D.M.D.
Nova Southeastern University

PR 11
Clinical Performance of Resilon™ and Gutta-Percha at 3 and 6 Months
Michelle L. Heffernan, D.M.D.
University of North Carolina

PR 12
In Vitro Evaluation of the Antimicrobial Effects of a Root Canal Sealer–Antibiotic Combination Against Enterococcus Faecalis
Anita A. Hoelscher, D.D.S.
Marquette University

PR 13
Digital Panoramic Radiographs Used for Comparison of the Incidence of Carotid and Pulpal Calcifications
Scott H. Horsley, D.D.S.
University of Louisville

PR 14
A Comparison of the Accuracy of Working Length Determination Using the Root ZX and Propex Apex Locators in a Clinically Simulated Typodont
Heidi G. Korn, D.M.D.
University of Michigan

PR 15
Assessing the Timing of Nickel-Titanium Rotary File Separation and Its Effect on Bacterial Penetration
Kimberly A.D. Lindquist, D.D.S.
Case Western Reserve University

PR 16
Comparison of Lateral and Vertical Condensation Techniques Using Resilon: A Scanning Electron Microscopy Study
Jack C.H. Liu, D.D.S., Ph.D.
University of Iowa

PR 17
Bacterial Count Comparisons on Exam Gloves From Freshly Opened Boxes Versus Nearly Empty Boxes and From Exam Gloves Before Treatment Versus After Dental Dam Isolation
Jeffrey B. Luckey, D.D.S.
University of Alabama

PR 18
E. Faecalis Penetration Through Canals Containing a Separated Instrument and Backfilled With MTA or Geristore
Jussara M. Morsani, D.D.S.
Case Western Reserve University
PR 19
An Evaluation of the Consistency Between Clinical Interprestations of Digital Radiography Using Image Enhancement Software
Johnathan C. Newcomb, D.M.D.
U.S. Army Dental Activity, Ft. Bragg, N.C.

PR 20
Prevalence and Predictors of Pulpal and Periradicular Disease in the Virginia Commonwealth University School of Dentistry Screening Patient Population
Ellen R. Oertel, D.D.S.
Virginia Commonwealth University

PR 21
What Effect Does GTR/Bone Grafting Material Have on Residual Bacteria in the Endodontic Surgical Crypt?
Jiten B. Patel, D.D.S.
Case Western Reserve University

PR 22
Osteomyelitis: A Potential Endodontic Complication
William Posner, D.M.D.
New York University

PR 23
Isolation of Dental Pulpal Stem Cells and Production of a Biomimetic Scaffold
Rebecca S. Prescott, B.D.S.
University of Illinois at Chicago

PR 24
A Comparative Study Between Three Irrigating Solutions for the Removal of the Smear Layer: A Scanning Electron Microscope Study
Zulmarie Santiago, D.M.D.
Nova Southeastern University

PR 25
The Importance of Apical Enlargement: A Comparison of Two Preparation Sizes
Darren Sinopoli, D.M.D.
Nova Southeastern University

PR 26
Expression of TLR2 and Proangiogenic Signaling Mediated by the PI3K-Akt Pathway in Odontoblast-Like Cells
Ryan I. Soden, D.M.D.
University of Michigan

PR 27
Reinforcement of Immature Roots With a New Resin Filling Material in a Model of Apexification
Charles H. Stuart, D.D.S.
Wilford Hall U.S.A.F Medical Center

PR 28
Histological Study of Periradicular Tissue Responses to Noninfected and Infected Devitalized Pulps in Dogs
New York University

PR 29
Effect of Blood Contamination on Retention Characteristics of Tooth-Colored MTA When Mixed With Different Liquids
Richard A. VanderWeele, D.M.D.
Wilford Hall U.S.A.F Medical Center

PR 30
The Predictive Ability of Questions Relating History of Symptoms in the Diagnosis of Endodontic Disease
Boyd A. Vaughn, D.D.S.
Virginia Commonwealth University

PR 31
Efficacy of Two New Final Rinse Solutions for Smear Layer Removal From Instrumented Root Canal Walls: An SEM Study
Ching S. Wang, D.D.S.
University of North Carolina

SATURDAY
8 – 11:30 a.m.  Trinity I

ENDODONTIST SECTION

PR 32
In Vitro Analysis of the Antimicrobial Effects of Several Commonly Used Intracanal Medicaments on Porphyromonas Gingivalis
University of Maryland

PR 33
Bond Strength of Two Different Fiber-Reinforced Endodontic Posts With Dual Cure Self-Etching Cement
Applied Testing Center of Ivoclar Vivadent, Inc.

PR 34
A Comparison of Different Digital Radiography Systems and Their Use in Endodontics
University of the Pacific

PR 35
Detection of Interleukin-11 in Human Dental Pulp and Periapical Lesions
Joshua A. Barkhordar
University of California, San Francisco

PR 36
Shaping Ability of K3, Profile, Nickel-Titanium and Stainless Steel Hand Instruments in Simulated Canals
Kefah M. Barrieshi-Nusair, B.D.S., M.S.
Kuwait University, Kuwait City, Kuwait

PR 37
Calcified Tissues Formed in Apposition to MTA In Vivo
Ricardo Caicedo, D.D.S.
Louisiana State University
PR 38
Cleaning Effect of EDTA on Smear Layer Removal After Rotary Nickel-Titanium Instrumentation in Root Canal
Kam Chan, B.D.S., M.S.
Taichung Veterans General Hospital, Taiwan

PR 39
Dimension, Anatomy and Morphology of the Mesiobuccal Root Canal System in Maxillary First and Second Molars
University of Minnesota

PR 40
Bending Properties of Newly Designed Nickel-Titanium Rotary Endodontic Instruments
Arata Ebihara, D.D.S., Ph.D., and Yohsuke Hayashi, D.D.S.
Tokyo Medical and Dental University, Japan

PR 41
In Vitro Observation of the Antimicrobial Effects of a Photopolymerizable Poly(ethylene Glycol)-Based Endodontic Material on Porphyromonas Gingivalis
University of Maryland

PR 42
Apical Leakage of a New Obturation Technique
Gianluca Gambarini, D.D.S.
University of Rome La Sapienza, Italy

PR 43
In Vitro Observation of the Antimicrobial Effects of a Photopolymerizable Poly(ethylene Glycol)-Based Endodontic Material on Enterococcus Faecalis
University of Maryland

PR 44
Apical Seal of the Taper Preparation Using Various Obturation Techniques
Osaka Dental University, Japan

PR 45
Shaping Ability of Hybrid Nickel-Titanium Rotary Endodontic Instruments
Yohsuke Hayashi, D.D.S., and Takashi Katsuki, D.D.S.
Tokyo Medical and Dental University, Japan

PR 46
Effectiveness of Needleless Anesthesia and Its Effect on Periodontal Tissues
Noriyasu Hosoya, D.D.S., Ph.D., and Kentaro Sato, D.M.D.
Tsurumi University, Yokohama, Japan

PR 47
Effect of Smear Layer Removal and Chlorhexidine Treatment on the Adhesion of Enterococcus Faecalis to Bovine Dentin
Il-Young Jung, D.D.S., Ph.D.
Yonsei University, Seoul, Korea

PR 48
Polymerase Chain Reaction Detection of Black-Pigmented Bacteria in Infections of Endodontic Origin in Korea
Seoul National University, Korea

PR 49
Magnetic Removal of Separated Instruments
Sara Kim, D.M.D.
University of Pennsylvania

PR 50
Predictors of Pulpal Involvement in Teeth With Full Coverage Restorations
Anna Kirakozova, D.D.S.
University of North Carolina

PR 51
The Effect of Mineral Trioxide Aggregate on the Production of Growth Factors and Cytokine by Human Periodontal Ligament Fibroblasts
Ji-Yoon Kwon, D.D.S., and Sung-Sam Lim, D.D.S., M.S.D., Ph.D.
Seoul National University, Korea

PR 52
Thermographic Assessment of the Temperature Rise on the Outer Surface of Roots During Filling With Laser-Softened Gutta-Percha
Mariusz P Lipski, D.D.S., Ph.D.
Pomeranian Medical University, Szczecin, Poland

PR 53
Molecular Control of Human Dental Pulp Stem Cell Chemotaxis
Peter E. Murray, B.D.S., Ph.D.
Nova Southeastern University

PR 54
A Comparison of Three Instruments in Preparing a Centered Platform Around Separated Instruments in Curved Canals
Helena Rafailov, D.M.D.
University of Pennsylvania

PR 55
In Vitro Cytotoxicity of a New Silicon-Based Root Canal Sealer (RoekoSeal Automix)
Shohreh Ravanshad, D.D.S., M.Sc., and Fatemeh Forouzesh, D.M.D.
Shiraz University, Iran

PR 56
Success Rate of Direct Pulp Capping With Calcium Hydroxide
David Sonntag, D.D.S.
Philipps-Universität Marburg, Germany

PR 57
In Vitro Assessment of the Effect of Heat on Cyclic Fatigue of Nickel-Titanium Endodontic Instruments
Vivian Tawadros, D.D.S., and Raja Gupta, B.D.S.
University of Maryland
PR 58
A Study of Inducing Ability of Hard Tissue Formation Using Three Root-End Filling Materials
Kayo Ueda, D.D.S.
Osaka Dental University, Japan

PR 59
Satisfaction With Endodontic Treatment Among Patients of a General Dental Practice: Results of 1997 and 2004 Surveys
Karl F. Woodmansey, D.D.S.
Montana State University

PR 60
An Evidence-Based Pico Strategy Review Of Chronic Beryllium Disease: Are We At Risk When Accessing Through Non-Precious Crowns?
Joseph T. Lee, D.D.S.
Case Western Reserve University

PR 61
Ten Minutes of Hydraulically Versus Seven Days of Passively Placed Calcium Hydroxide
Shahin Etemadi, D.D.S.
Case Western Reserve University

FRIDAY
8 – 11:30 a.m. Trinity I
GRADUATE STUDENT SECTION

TC 1
Endodontics Revealed: 3-D Images Using Computed Tomography
University of Washington

TC 2
An Evidence-Based Pico Strategy Review of the Presence of Enterococcus Faecalis in the Oral Microflora
Allen D. Colic, D.D.S.
Case Western Reserve University

TC 3
MTAD: A Flash in the Pan or the Real Deal?
Steven T. Elkhal, D.M.D.
Albert Einstein Medical Center

TC 4
Platelet-Rich Plasma and Endodontics
Naval Postgraduate Dental School

TC 5
Morphological Anomalies in Clinical Endodontics
Andrew S. Huttula, D.D.S., and Patrick J. Munley, D.M.D.
Naval Postgraduate Dental School

TC 6
Decoronation: Preventive Treatment for the Complications of Ankylosis in the Pediatric Patient
Kristin M. Jabbs, D.M.D.
Albert Einstein Medical Center

TC 7
Apical Closure Time With the Apexification Procedure
Matthew L. Kjar, D.M.D., M.S.
University of Louisville

TC 8
MTA: Can We Make It Better?
Paul Kogan, D.D.S.
Baylor College of Dentistry

TC 9
A New Resin-Based Material... as a Root-End Fill?
Christos M. Maltezos, D.D.S.
Baylor College of Dentistry

TC 10
Autotransplantation
Judy D. McIntyre, D.M.D.
University of North Carolina

TC 11
Three Canal Mandibular First and Second Premolars: A Treatment Approach
Sashi Nallapati, B.D.S.
Nova Southeastern University

TC 12
Cyanoacrylate: The Answer to the Thermafil Retreatment Dilemma
Donald Nguy, D.D.S.
University of Michigan

TC 13
Reactions of Chlorhexidine Within the Root Canal
Christopher B. Owatz, D.M.D., and Evan Chugerman, D.M.D., M.S.Ed., M.A.
University of Texas Dental School, San Antonio
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<td><strong>8 – 11:30 a.m. (cont.)</strong></td>
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**TC 14**  
*Microcomputed Tomography (Micro-CT) for Morphometric Analysis of the Apical Region of the Root Canal System*  
Yogesh Patel, D.D.S.  
Baylor College of Dentistry

**TC 15**  
*Unusual Odontalgia Secondary to Masticatory Co-Contraction, Diurnal Clenching, Bruxism and Post-Traumatic Stress Disorder*  
Melissa L. Ruff, D.M.D., and Saman Gharib, D.M.D.  
Naval Postgraduate Dental School

**TC 16**  
*Clinical Inspection of Root Canals After Epiphany Removal*  
Sherma R. Saif, D.M.D., and Buffy Storm, D.M.D.  
Naval Postgraduate Dental School

**TC 17**  
*A Preliminary In Vitro Comparison of the Dentin Bond Strength of Epiphany™ Sealant to That of Gutta-Percha and Kerr Pulp Canal Sealer™ EWT*  
Lance J. Skidmore, D.D.S.  
Marquette University

**TC 18**  
*Paying Too Much for Endo-Ice?*  
University of Michigan

**TC 19**  
*Odontogenic Sinusitis: Diagnosis and Treatment*  
Ellen A. Teverovsky, D.D.S.  
Albert Einstein Medical Center

**TC 20**  
*An In Vivo Evaluation of Single-Use Rotary Nickel-Titanium Instruments Using an Electric Torque Control Motor*  
Thomas C. Vokal, D.D.S.  
University of Detroit Mercy

**TC 21**  
*A Gel-Like Resorbable Hemostatic Agent for Use in Endodontic Surgery*  
Andrew P. Wright, D.D.S.  
Case Western Reserve University

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**SATURDAY**

**8 – 11:30 a.m.**  
**Trinity I**

**ENDODONTIST SECTION**

**TC 22**  
*A New Instrument Puts a Handle on the Endodontic File: A Simple Solution for Advanced Endodontic Cases*  
Steven S. Larsen, D.D.S., M.S.  
Logan, Utah

**TC 23**  
*Dens Evaginatus: Literature Review, Pathophysiology and Comprehensive Treatment Regimen*  
Marc E. Levitan, D.D.S.  
University of Tennessee

**TC 24**  
*Simplified Technique to Replace Teeth That Cannot Be Saved Endodontically*  
Paul R. Mancia, D.D.S.  
Kingston, Pa.

**TC 25**  
*Resilon — A New Obturation Material*  
Robert T. Radel, D.M.D.  
Naval Postgraduate Dental School
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Williams, Clayton B.
Williams, John M.
Williams, Michael C.
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Wong, Kalan
Woodmansey, Karl F.
Wright, Andrew P.
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Vancouver Convention and Exhibition Centre
April 9 – 12

2009
ORLANDO, FLORIDA
Gaylord Palms Resort and Convention Center
April 29 – May 2

2010
SAN DIEGO, CALIFORNIA
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April 14 – 17

2011
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