American Association of Endodontists

2003 Annual Session

April 30–May 3, 2003
Tampa, Florida
Full-page Ad
ASI Medical
Dear Colleagues,

On behalf of the American Association of Endodontists, its officers and directors, and the Annual Session Committee, I welcome you to the 2003 Annual Session and the city of Tampa!

This multicultural venue is the perfect host as we explore the New World ~ New Horizons in endodontics, enhancing our knowledge of the current evolutions in the global endodontic community. A number of international speakers, from Canada to Lebanon to Australia, will cover a wide range of topics during three days of informative educational sessions. An additional block of sessions has been added on Saturday following the new Colleagues Luncheon. A number of these seminars, including the Pre-Session Symposium, will also feature simultaneous translation from English to Spanish, Japanese, Italian and Portuguese.

The latest endodontic products and technological developments will be on display in this year’s exhibit hall, which will feature extended hours, as well as the AAE Oasis. This area, in addition to being a comfortable rest stop, will showcase the best of what our association has to offer in products and services. Visitors to the Oasis will have the opportunity to purchase items from the AAE logo line, meet with AAE staff, see the AAE Foundation Donor Wall, or ask about the American Board of Endodontics’ certification process.

We’ve also set aside ample time for you to meet and exchange ideas with your peers at daily breakfasts, luncheons and new networking breaks. Thirty-minute breaks are scheduled throughout the educational program to provide you with additional time to visit with colleagues or browse the exhibit hall. As you look through this program, you’ll see many other exciting events that will enhance your Tampa experience, such as our annual auctions, alumni and affiliate functions, the Fun Run, continuation of the Friday night Celebrate Tampa! Event, local area tours and the annual President’s Dinner on Saturday night.

I would like to recognize the hard work of all who helped to put this great session together, including the 2003 Annual Session Committee led by Dr. Ronald I. Deblinger and the AAE staff led by Executive Director James M. Drinan. These people and many more have contributed to making this year’s Annual Session a great success.

I hope you all enjoy this year’s meeting and take time to explore all of the available educational sessions, fun-filled social events and local attractions in search of a New World ~ New Horizons!

Sincerely,

Samuel O. Dorn, D.D.S.
President
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Full page Ad

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Courtesy of the Tampa Bay Convention and Visitors Bureau
SCHEDULE AT-A-GLANCE

Unless otherwise noted, the following activities will be conducted at the Tampa Convention Center. Please refer to the Educational Sessions portion of this program for session room assignments. All optional tours depart from the convention center.

| Tuesday, April 29 | 3 – 8 p.m. | Registration and Information | 2nd Level |
| Wednesday, April 30 | 7 a.m. – 8 p.m. | Registration and Information | 2nd Level |
| | 7 a.m. – 8 a.m. | Pre-Session Symposium Continental Breakfast | Ballroom |
| | 8 a.m. – 4:30 p.m. | Pre-Session Symposium | West Hall |
| | Noon – 1:15 p.m. | Pre-Session Symposium Luncheon | Ballroom |
| | 12:45 – 3:15 p.m. | Tampa Bay Duck Tour (Optional Tour) |
| | 1 – 4 p.m. | Salvador Dalí Museum (Optional Tour) |
| | 6:30 – 8 p.m. | Welcome Reception and Silent Auction | Convention Center Riverwalk and Rotunda |
| Thursday, May 1 | 7 a.m. – 6 p.m. | Registration and Information | 2nd Level |
| | 8 – 8:30 a.m. | Auxiliary Continental Breakfast | Room 13/14 and 15/16 (foyer) |
| | 8 – 10 a.m. | Opening Session Breakfast | West Hall |
| | 8:30 – 10 a.m. | Auxiliary Sessions | Rooms 13/14 and 15/16 |
| | 9:30 a.m. – 4 p.m. | Busch Gardens (Optional Tour) |
| | 10 – 11 a.m. | District Caucuses | I – Room 22/23 II – Room 24/25 III – Room 20 IV – Room 21 V – Room 18 VI – Room 19 |
| | 10 a.m. – 6 p.m. | AAE Oasis and Exhibits Open | East Hall |
| | 10:30 a.m. – noon | Oral Research Presentations | Room 10/11 |
| | 10:30 a.m. – 5:15 p.m. | St. Armands Circle (Optional Tour) |
| | 11 a.m. – noon | Affiliate Leadership Meeting | Room 22/23 |
| | 11 a.m. – 1:30 p.m. | Tampa Bay Duck Tour (Optional Tour) |
| | Noon – 1:30 p.m. | Louis I. Grossman Luncheon | Ballroom D |
| | 1:30 – 3 p.m. | Educational Sessions | See page ? for details |
| | 3 – 3:30 p.m. | Networking Break | East Hall |
| | 3:30 – 5 p.m. | Educational Sessions | See page ? for details |
| | 5 – 6 p.m. | Educational Sessions | Room 10/11 |
| | 5:45 – 10 p.m. | StarShip Dinner Cruise (Optional Event) | East Hall |
## Schedule at-a-Glance, Continued

### Friday, May 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30</td>
<td>Fun Run</td>
<td>Tampa Convention Center Riverwalk</td>
</tr>
<tr>
<td>7 – 8 a.m.</td>
<td>Continental Breakfast</td>
<td>East Hall</td>
</tr>
<tr>
<td>7 a.m. – 5 p.m.</td>
<td>Registration and Information</td>
<td>2nd Level</td>
</tr>
<tr>
<td>7 a.m. – 5 p.m.</td>
<td>AAE Oasis and Exhibits Open</td>
<td>East Hall</td>
</tr>
<tr>
<td>8 – 9:30 a.m.</td>
<td>Educational Sessions</td>
<td>See page ? for details</td>
</tr>
<tr>
<td>8 – 11:30 a.m.</td>
<td>Oral Research Presentations</td>
<td>Room 10</td>
</tr>
<tr>
<td>8 – 11:30 a.m.</td>
<td>Poster Research Presentations and Table Clinics</td>
<td>East Hall See page ? for details</td>
</tr>
<tr>
<td>8 a.m. – 5 p.m.</td>
<td>Automated Canal Preparation: A Hands-On Workshop</td>
<td>Room 17</td>
</tr>
<tr>
<td>9:30 – 10 a.m.</td>
<td>Networking Break</td>
<td>East Hall</td>
</tr>
<tr>
<td>9 a.m. – 4 p.m.</td>
<td>Cypress Gardens <em>(Optional Tour)</em></td>
<td>See page ? for details</td>
</tr>
<tr>
<td>9 a.m. – 11:30 a.m.</td>
<td>Educational Sessions</td>
<td>Room 10</td>
</tr>
<tr>
<td>11 a.m. – 1:30 p.m.</td>
<td>Tampa Bay Duck Tour <em>(Optional Tour)</em></td>
<td></td>
</tr>
<tr>
<td>11:30 a.m. – 1 p.m.</td>
<td>Edgar D. Coolidge Luncheon</td>
<td>West Hall</td>
</tr>
<tr>
<td>1 – 4 p.m.</td>
<td>Salvador Dalí Museum <em>(Optional Tour)</em></td>
<td></td>
</tr>
<tr>
<td>1:30 – 3 p.m.</td>
<td>Educational Sessions</td>
<td>Room 10</td>
</tr>
<tr>
<td>3 – 3:30 p.m.</td>
<td>Networking Break</td>
<td>East Hall</td>
</tr>
<tr>
<td>3:30 – 5 p.m.</td>
<td>Educational Sessions</td>
<td>Room 10</td>
</tr>
<tr>
<td>9 p.m. – midnight</td>
<td><em>Celebrate Tampa!</em></td>
<td>Marriott Waterside, Grand Ballroom</td>
</tr>
</tbody>
</table>

### Saturday, May 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 – 8 a.m.</td>
<td>Continental Breakfast</td>
<td>East Hall</td>
</tr>
<tr>
<td>7 a.m. – 3 p.m.</td>
<td>Registration and Information</td>
<td>2nd Level</td>
</tr>
<tr>
<td>7 a.m. – 5 p.m.</td>
<td>AAE Oasis and Exhibits Open</td>
<td>East Hall</td>
</tr>
<tr>
<td>8 – 9:30 a.m.</td>
<td>Educational Sessions</td>
<td>See page ? for details</td>
</tr>
<tr>
<td>8 – 11:30 a.m.</td>
<td>Poster Research Presentations and Table Clinics</td>
<td>East Hall See page ? for details</td>
</tr>
<tr>
<td>8:30 – 9:30 a.m.</td>
<td>Past Presidents Breakfast</td>
<td>Marriott Waterside, Room 4</td>
</tr>
<tr>
<td>9:30 – 10 a.m.</td>
<td>Networking Break</td>
<td>East Hall</td>
</tr>
<tr>
<td>10 – 11:30 a.m.</td>
<td>Educational Sessions</td>
<td>See page ? for details</td>
</tr>
<tr>
<td>11:30 a.m. – 1 p.m.</td>
<td>Colleagues Luncheon</td>
<td>Ballroom</td>
</tr>
<tr>
<td>1:30 – 3 p.m.</td>
<td>Educational Sessions</td>
<td>Room 11</td>
</tr>
<tr>
<td>3 – 4 p.m.</td>
<td>General Assembly</td>
<td>Ballroom Foyer</td>
</tr>
<tr>
<td>7 – 8 p.m.</td>
<td>President’s Reception</td>
<td>Ballroom</td>
</tr>
<tr>
<td>8 p.m. – midnight</td>
<td>President’s Dinner</td>
<td></td>
</tr>
</tbody>
</table>
**AUXILIARY PROGRAM**

While Auxiliary members and guests are welcome to attend any educational session, the following sessions and activities have been designed with office staff in mind. Please see the educational section of this program for session synopses and room assignments.

Auxiliary sessions are denoted with an “A” before the session number. Auxiliary sessions are conducted at the Tampa Convention Center.

<table>
<thead>
<tr>
<th>Thursday, May 1</th>
<th>Friday, May 2 continued</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 – 8:30 a.m.</td>
<td><strong>10 – 11:30 a.m.</strong> A-210: Past, Present and Future Electronic Claims Submission: How Can It Benefit Your Practice and Your Patients?</td>
</tr>
<tr>
<td>Auxiliary Continental Breakfast</td>
<td>A-211: The Assistant and Dental Operating Microscopes (DOM) in Endodontics</td>
</tr>
<tr>
<td>Rooms 13/14 and 15/16 (foyer)</td>
<td>1:30 – 3 p.m. A-216: Collection: Bridging the Gap Between Case Acceptance and Payment</td>
</tr>
<tr>
<td>8:30 – 10 a.m.</td>
<td>A-217: Implementing Modern Technology Into Existing Offices</td>
</tr>
<tr>
<td><strong>A-100:</strong> Management Widgets</td>
<td>3:30 – 5 p.m. Continuation of A-216 and A-217</td>
</tr>
<tr>
<td><strong>A-101:</strong> Typical Patient Questions Encountered When the Doctor Leaves the Room</td>
<td></td>
</tr>
<tr>
<td>1:30 – 3 p.m.</td>
<td></td>
</tr>
<tr>
<td><strong>A-103:</strong> Practice Solutions and Office Strategies</td>
<td></td>
</tr>
<tr>
<td><strong>A-104:</strong> Infectious Hazards in Dentistry</td>
<td></td>
</tr>
<tr>
<td>3:30 – 5 p.m.</td>
<td></td>
</tr>
<tr>
<td>Continuation of A-103 and A-104</td>
<td></td>
</tr>
</tbody>
</table>

**Friday, May 2**

<table>
<thead>
<tr>
<th>8 – 9:30 a.m.</th>
<th>A-201: An Update on Answers to Third-Party Reimbursement Issues and CDT-4 Endodontic Insurance Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A-202:</strong> The Dental Assistant’s Role in Enhancing the Patient’s Experience in the Endodontic Practice</td>
<td></td>
</tr>
</tbody>
</table>

**Friday, May 2 continued**

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>A-211: The Assistant and Dental Operating Microscopes (DOM) in Endodontics</td>
<td></td>
</tr>
<tr>
<td>1:30 – 3 p.m.</td>
<td>A-216: Collection: Bridging the Gap Between Case Acceptance and Payment</td>
</tr>
<tr>
<td>A-217: Implementing Modern Technology Into Existing Offices</td>
<td></td>
</tr>
<tr>
<td>3:30 – 5 p.m.</td>
<td>Continuation of A-216 and A-217</td>
</tr>
</tbody>
</table>

**Saturday, May 3**

<table>
<thead>
<tr>
<th>8 – 9:30 a.m.</th>
<th>A-303: Motivate and Retain Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A-304:</strong> Radiography Basics: Emphasis on Endodontics</td>
<td></td>
</tr>
<tr>
<td>10 – 11:30 a.m.</td>
<td>Continuation of A-303 and A-304</td>
</tr>
</tbody>
</table>

**Saturday, May 3 continued**

<table>
<thead>
<tr>
<th>1:30 – 3 p.m.</th>
<th>A-318: HIPAA Overview for Dentists</th>
</tr>
</thead>
</table>

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AAE Oasis
Stop by the AAE Oasis located in the exhibit hall to check out the latest in AAE member services and products, including a complete line of AAE logo items available for sale. AAE staff will be waiting to answer questions and to assist you with your product orders. While you are there, learn how to pledge your support to the Foundation, talk to a representative from the American Board of Endodontics, and find out what lies ahead for the AAE 2003 Fall Conference and the 2004 Annual Session in Anaheim. Visitors will be able to enter a drawing for several fabulous prizes to be given away throughout the session—you may be a lucky winner!

AAE Registration and Information
AAE Registration and Information will be located on the 2nd level of the Tampa Convention Center during the following hours:

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

Badges
We ask that you wear your name badge to all AAE functions. Your name badge is your admittance to the Welcome Reception, Celebrate Tampa!, educational sessions and the exhibit hall. A ticket is required for all other events.

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

Career Opportunities Exchange
Check out the very latest job openings or post your opening on the Career Opportunities Exchange board, located in the AAE Oasis area. The job board is hosted and monitored by the Membership Services Committee.

Commemorative Golf Shirt
Attendees who purchased commemorative golf shirts via the Annual Session registration form will receive a claim ticket and may pick up purchases at the AAE Oasis.

Continuing Education Credits
A Continuing Education Certificate of Completion form is provided for your use. The CE credits issued for participants may not be applicable for license renewal in all states. Since continuing education requirements and acceptance of credits offered vary among state boards of dentistry, each participant must verify the requirements of his/her state licensing board, and whether the CE form should be retained by the participant or sent to the state board. The AAE is an ADA CERP Recognized Provider.

Evaluations
Your opinion counts! Assist us in preparing next year's program by completing an evaluation form for each session that you attend. Evaluation forms will be distributed 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 (page ?) for a complete listing of participating companies. Your name badge is required for admittance to the exhibit hall. Exhibits will be open during the following hours:

- Thursday: 10 a.m. – 6 p.m.
- Friday: 7 a.m. – 5 p.m.
- Saturday: 7 a.m. – 3 p.m.

Headquarters Office
The AAE on-site headquarters office is located in Room 306 of the Tampa Convention Center.

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

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

President’s Dinner Seating
To reserve seating for the President’s Dinner, you must exchange your voucher for a dinner ticket no later than 6 p.m. on Thursday, May 1. If you wish to have group seating, a voucher must be presented at the same time for each person in your group. Tables are reserved on a first-come, first-served basis. The Dinner Seating desk will be located in the AAE Registration and Information area during the following hours:

- Tuesday: 3 – 8 p.m.
- Wednesday: 7 a.m. – 8 p.m.
- Thursday: 7 a.m. – 6 p.m.
- Friday: Closed
- Saturday: Closed
Registration Categories
Annual Session registration categories include the following activities and events:

- **Professional Member**: Sessions and Exhibits, Welcome Reception, Opening Session Breakfast, Continental Breakfasts, Coolidge and Colleagues Luncheons, *Celebrate Tampa!*, President’s Dinner.

- **Student Member**: Sessions and Exhibits, Welcome Reception, Opening Session Breakfast, Continental Breakfasts, Coolidge and Colleagues Luncheons, *Celebrate Tampa!* (Note: Pending members must register as Professional members.)

- **Auxiliary Member**: Sessions and Exhibits, Welcome Reception, Auxiliary Breakfast, Continental Breakfasts, Coolidge and Colleagues Luncheons, *Celebrate Tampa!* (Note: The Auxiliary member category 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**: Alliance program activities, Welcome Reception and *Celebrate Tampa!* (Note: Fee includes $50 for AAE Alliance membership dues. Alliance registrants are welcome to attend exhibits and sessions but cannot receive continuing education credits.)

- **Professional/Student/Auxiliary Guests and Family**: Welcome Reception and *Celebrate Tampa!*

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

Simultaneous Translation
Translation from English to Spanish, Japanese, Italian and Portuguese will be available for the Pre-Session Symposium on Wednesday as well as key sessions on Thursday and Friday. To obtain a complimentary headset, please stop by the Translation desk located in the AAE Registration and Information area during registration hours. Headsets will be distributed on a first-come, first-served basis.

Speaker-Ready Room
Presenters may view their presentations or obtain assistance in Room 16 at the Tampa Convention Center.

Special Assistance
If you have a physical, communication or dietary restriction that may affect your participation in Annual Session activities, please see Joan Kulikowski at the AAE Registration and Information desk. However, neither the AAE nor the Tampa Convention Center can ensure the availability of appropriate accommodation without sufficient notification of need.

Special Events and Ticket Sales
Refer to the Special Events section of this program (page ?) for a listing of special events taking place in conjunction with the Annual Session. Tickets are required for all listed events with the exception of the Welcome Reception and *Celebrate Tampa!*

Your name badge will admit you to these two events.

Tour Program
The optional tour program, offered by Premier Convention Services, has been designed exclusively for AAE attendees. Pre-paid tickets must be picked up in advance of the tour. Stop by the Optional Tour Counter in the AAE Registration and Information area during the times listed below. All tours depart from the Tampa Convention Center, Channelside Entrance.

- Tuesday: 3 – 8 p.m.
- Wednesday: 9 a.m. – 1 p.m.
- Thursday: 9 a.m. – 1 p.m.

Restaurant Guide
A list of Tampa restaurants is available at the AAE Registration and Information desk. Use this guide to make reservations directly or visit your hotel’s concierge for assistance.

Session Handouts
Speakers are encouraged to provide handouts for their session. Handouts received by the AAE will be distributed at the corresponding session.
NEW WORLD ~ NEW HORIZONS

SPECIAL EVENTS

KEY: TCC = Tampa Convention Center  TMW = Tampa Marriott Waterside

Wednesday
6:30 – 8 p.m.
Welcome Reception and 6th Annual Alliance Silent Auction
TCC — Riverwalk

Don’t miss this opening night event that provides you the opportunity to see friends and meet new colleagues. Come dressed casually for this outdoor festivity. Once again, the AAE Alliance will dazzle you with an array of items for auction. Past items have included hotel getaways, original art, autographed items and much more. Make sure you bid early. Your support will assist the Alliance in meeting its $300,000 pledge to the AAE Foundation.

Thursday
8 – 10 a.m. *
Opening Session Breakfast
TCC — West Hall

Join fellow attendees at the breakfast table to kick-off the 2003 Annual Session! Dr. Samuel O. Dorn, AAE President, will present the keynote address. In addition, breakfast attendees will receive an overview of the many different activities, sessions and presentations that await them in the days ahead.

Noon – 1:30 p.m. *
Louis I. Grossman Memorial Luncheon
Working Together: It’s Only Our Future
TCC — Ballroom D

Sponsored by the College of Diplomates of the American Board of Endodontics, this year’s luncheon program will recognize endodontists who achieved Board certification during 2002. Dr. D. Gregory Chadwick, AAE member, Diplomate and immediate past president of the American Dental Association, will present some opportunities and responsibilities for arriving at our future together. Dr. Chadwick’s wide range of experience will awaken your spirits and broaden your horizons. New Diplomates will be inspired by his insightful message.

Friday
6:30 a.m.
Fun Run
TCC — Riverwalk

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

11:30 a.m. – 1 p.m. *
Edgar D. Coolidge Luncheon
TCC — West Hall

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

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

Louis I. Grossman Award
Franklin S. Weine, D.D.S.
Recognizes an author for cumulative publication of significant research studies that have made an extraordinary contribution to endodontics.

* Meals will be served in the first 30 minutes of the noted time.
Edward M. Osetek Educator Award
Shahrokh Shabahang, D.D.S., M.S., Ph.D.
Presented to a full-time educator with less than six years teaching experience, who has earned the esteem and respect of students and faculty associates. The award is named in memory of Dr. Edward M. Osetek, who was an influence and inspiration to many students during his teaching career.

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

Ralph E. Sommer Award
Miomir Cvek, D.M.D., Ph.D.
Recognizes an author of a publication of specific significance to the science and art of endodontology or for an article describing developments or advances in methodology and/or materials and devices and for constructive influence on clinical practice.

9 p.m. – midnight
Celebrate Tampa!
A party celebration sponsored by Dentsply Tulsa Dental TMW — Grand Ballroom
Back by popular demand, this late-night event gives you the chance to pull out all the stops in a casual atmosphere while getting a taste of “Margaritaville.” Kick up your heels to the lively sounds of familiar music, enjoy libations with friends and help us celebrate!

Saturday
11:30 a.m. – 1 p.m. *
Colleagues Luncheon
TCC — Ballroom
Take a break from learning and have lunch with your colleagues. Awards will be given to the graduate student winners for oral and poster research presentations and table clinics. Be sure to join us in congratulating these award recipients.

7 p.m. – Reception
8 p.m. – Dinner
President’s Dinner
TCC — Ballroom
Join your colleagues for a spectacular evening of fine dining and entertainment at this traditional event hosted by Dr. Samuel O. Dorn, AAE President.
(Black tie optional. Advance table assignment is required. Please see p. 37 for details.) A non-host bar will be available throughout the reception, dinner and dancing.

* Meals will be served in the first 30 minutes of the noted time.
BOARD AND COMMITTEE MEETINGS

**Sunday, April 27**
ABE Board of Directors
8 a.m. – 6 p.m.
Marriott, Room 7

**Monday, April 28**
AAE Board of Directors
8:30 a.m. – 5 p.m.
Marriott, Room 12

**Tuesday, April 29**
AAE Foundation Board of Trustees
8 a.m. – 5 p.m.
Marriott, Room 12

**Wednesday, April 30**
Honors and Awards Committee
9 a.m. – noon
Marriott, Room 1

Incoming Board of Directors Orientation Meeting
1 – 3 p.m.
Marriott, Room 4

**Friday, May 2**
Editorial Board
7 – 8:30 a.m.
Marriott, Room 4

2003 – 2004 Committees Breakfast
7 – 8 a.m.
Marriott, Room 8/9/10

**Saturday, May 3**
Past Presidents Breakfast
8:30 – 9:30 a.m.
Marriott, Room 4

2004 Annual Session Committee
10 a.m. – noon
Tampa Convention Center, Room 3/4

**Sunday, May 4**
AAE Board of Directors
8:30 a.m. – 3 p.m.
Marriott, Room 12

ALLIANCE ACTIVITIES

**Wednesday, April 30**
Sixth Annual Silent Auction
6:30 – 9 p.m.
Convention Center, Rotunda

This event, held in conjunction with the Welcome Reception, benefits the AAE Foundation. Proceeds will be presented at the Edgar D. Coolidge Luncheon (ticket required).

**Thursday, May 1**
Alliance Board of Directors Meeting
2 – 3:30 p.m.
Marriott, Bayshore Boardroom

Foundation Live Auction
5 – 6 p.m.
Convention Center, East Hall

**Friday, May 2**
Alliance General Membership Meeting
8:30 – 10 a.m.
Marriott, Florida Ballroom, Salon IV

**Saturday, May 3**
Alliance Incoming Board of Directors Meeting
7:30 – 8:30 a.m.
Marriott, Room 3

Alliance Member Breakfast
8:30 – 10 a.m.
Marriott, Grand Ballroom, Salons G/J

AAE ALLIANCE OFFICERS

**President**
Rebecca Funderburk (David)

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

**Secretary**
Carol Hovland (Eric)

**Treasurer**
Judy Calhoun (Richard)

**Parliamentarian**
Carol Cooke (Groves)

**Local Chair**
Stella Delgado (Frank)
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ALUMNI AND AFFILIATE FUNCTIONS

All functions will take place at the Tampa Marriott Waterside unless otherwise noted.

**Wednesday, April 30**
- Baylor College of Dentistry
  - Reception: 9 – 11 p.m.
  - Meeting Room 12

- Medical College of Georgia
  - Reception: 5 – 6:30 p.m.
  - Florida Ballroom, Salon I

- Northwestern University
  - Reception: 8 – 9:30 p.m.
  - Grand Ballroom, Salon B

- U.S. Army Association of Endodontists
  - Reception: 4:30 – 6:30 p.m.
  - Meeting Room 13

- *University of Detroit Mercy
  - Dinner: 8:30 p.m.

**Thursday, May 1**
- Boston University Alumni Association
  - Dinner: 7 p.m. – midnight
  - Grand Ballroom, Salon F

- Case Western Reserve University
  - Reception: 5:30 – 7:30 p.m.
  - Meeting Room 10

- Florida Association of Endodontists and Nova Southeastern University
  - Reception: 8:30 – 10 p.m.
  - Grand Ballroom, Salon E

- Harvard School of Dental Medicine
  - Reception: 6 – 7:30 p.m.
  - Grand Ballroom, Salon I

- Iowa Endodontic Group
  - Reception: 6 – 8 p.m.
  - Florida Ballroom, Salon IV

- Louisiana State University
  - Reception: 6 – 9 p.m.
  - Florida Ballroom, Salon I

- *Loyola University
  - Dinner: 7 – 9 p.m.
  - Shula's Steakhouse

- Michigan Association of Endodontists
  - Reception: 6:30 – 8 p.m.
  - Grand Ballroom, Salon C

- New York University
  - Reception: 6 – 8 p.m.
  - Meeting Room 6

- Oregon Health & Science University
  - Reception: 6:30 – 8 p.m.
  - Meeting Room 12

- Temple University
  - Reception: 6 – 7 p.m.
  - Meeting Room 13

- Tufts University
  - Reception: 6 – 7:30 p.m.
  - Florida Ballroom, Salon III

- UNC Tarheel Endodontists
  - Reception: 6 – 7:30 p.m.
  - Grand Ballroom, Salon G

- University of Buffalo
  - Reception: 5 – 7 p.m.
  - Grand Ballroom, Salon A

- *University of Illinois
  - Dinner: 6 – 9 p.m.
University of Louisville
Reception: 6:30 – 8 p.m.
Grand Ballroom, Salon B

University of Maryland
Reception: 6:30 – 8:30 p.m.
Grand Ballroom, Salon H

University of Missouri–Kansas City
Meeting: 5 – 6 p.m.
Hyatt Regency, Buccaneer D

University of Pennsylvania
Reception: 6 – 7:30 p.m.
Grand Ballroom, Salon D

University of Pittsburgh
Reception: 6 – 8 p.m.
Meeting Room 11

University of Southern California
Reception: 6:30 – 8 p.m.
Grand Ballroom, Salon J

University of Texas–Houston
Reception: 5:30 – 7 p.m.
Meeting Room 2

University of Texas–San Antonio
Reception: 6 – 8 p.m.
Florida Ballroom, Salon V

University of Washington
Reception: 6:30 – 8 p.m.
Florida Ballroom, Salon II

*U.S. Navy Association of Endodontists
Reception: 5:30 – 7:30 p.m.

Virginia Commonwealth University/Medical College of Virginia
Reception: 5:30 – 7 p.m.
Meeting Room 5

West Virginia University
Business Meeting: 5:30 – 7 p.m.
Greco Boardroom

Friday, May 2
Albert Einstein Endodontic Alumni Society
Reception: 6 – 7:30 p.m.
Meeting Room 11

Marquette University
Reception: 6 – 7 p.m.
Meeting Room 7

Oklahoma Association of Endodontists
Breakfast Meeting: 7 – 8:30 a.m.
Meeting Room 2

University of Florida
Reception: 5:30 – 6:30 p.m.
Meeting Room 12

University of Michigan
Breakfast Meeting: 7 – 8:30 a.m.
Meeting Room 1

University of Toronto Endodontic Alumni and Friends
Breakfast Meeting: 7 – 8:30 a.m.
Florida Ballroom, Salons I/II

Saturday, May 3
Boston University Alumni
Breakfast Meeting: 7 – 8:30 a.m.
Florida Ballroom, Salon VI

U.S. Air Force Association of Endodontists
Breakfast Meeting: 7 – 8:30 a.m.
Meeting Room 1

U.S. Navy Association of Endodontists
Breakfast: 7 – 9:30 p.m.
Meeting Rooms 8/9/10

*Locations are off-site.

OTHER FUNCTIONS

Wednesday, April 30
Endo Standards Group
Meeting: 1 – 5 p.m.
Meeting Room 2

Thursday, May 1
Christian Endodontic Society
Reception: 5 – 6 p.m.
Meeting Room 7

French Society of Endodontics
Reception: 7:30 – 10 p.m.
Florida Ballroom, Salon VI

Harry J. Healey Endodontic Study Club
Reception: 6:30 – 8:30 p.m.
Meeting Room 8

International Federation of Endodontic Associations
Board of Directors Meeting: 2 – 4 p.m.
Greco Boardroom
Reception: 6 – 7:30 p.m.
Meeting Room 9

Friday, May 2
International Federation of Endodontic Associations
General Assembly: 7 – 8:30 a.m.
Meeting Room 35, Tampa Convention Center

Endodontic Section of ADEA
Business Meeting: 11 – 11:30 a.m.
Tampa Convention Center, Room 11

Japanese Endodontist Study Group
Meeting: 3 – 6 p.m.
Il Terrazo Private Dining Room

Resident’s Reception
6 – 8 p.m.
Meeting Room 8/9/10

Saturday, May 3
Triple O Endodontic Section
Editorial Board
Breakfast Meeting: 7 – 8:30 a.m.
Meeting Room 2
Clinical Aspects of Endodontic Microbiology

Tampa Convention Center, West Hall

The Continuing Education Committee presents this timely and informative evidence-based presentation on “Clinical Aspects of Endodontic Microbiology.” The success and failure of endodontic treatment ultimately depends on our ability to eliminate or entomb any infective agents present. This requires a significant understanding of the latest information regarding the microbiology of the endodontically diseased tooth. Distinguished and well-qualified speakers will address the issue of understanding and eliminating endodontic infection.

After a brief introduction to the clinical relevance of the topic by Dr. Robert S. Roda, Dr. Goran Sundqvist will present an in-depth look at the nature of endodontic flora. Following this, Dr. Mahmoud Torabinejad will provide a discussion of the smear layer and the clinical question of whether it needs to be removed or left in place. After lunch, Dr. Kenneth M. Hargreaves will enlighten the audience about the uses and abuses of antibiotic therapy in the clinical setting, and the last segment will have Dr. Markus Haapasalo providing an interesting look at the latest developments in canal sterilization. Then, Dr. Roda will moderate a question and answer session to finish the day. Following the presentation, the listener should have a thorough understanding of what is needed to minimize the incidence of persistent disease in endodontically treated teeth.

**Wednesday, April 30**

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<td>New Trends in Canal Sterilization</td>
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<td>4 – 4:30 p.m.</td>
<td>Question/Answer Session</td>
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The Nature of the Root Canal Infection

**Goran Sundqvist, D.D.S., Ph.D.**

In this presentation, the mechanisms behind the development of infection in the root canal will be discussed. The adaptation to the environment, the interactions between bacteria and how the nutritional demands are fulfilled will be considered. The survival mechanisms of bacteria that can withstand the treatment and how they adapt to starvation will be discussed, as they are crucial for the outcome of the treatment. Advantages and limitations of molecular identification of microorganisms from endodontic infections will be presented.

At conclusion, participants should be able to:

- Identify mechanisms behind the establishment of the typical endodontic microbial flora.
- Understand microbial etiology of endodontic treatment failures.
- Recognize pathogenic mechanisms of specific bacteria implicated in persistent infections.

Clinical Implications of the Smear Layer in Endodontics

**Mahmood Torgani, D.M.D., M.S.D., Ph.D.**

One of the major objectives of root canal treatment is complete cleaning and disinfection of the root canal system. Presence of bacteria, complexity of the root canal system and the smear layer hamper achievement of this task. Many methods have been proposed to achieve these goals, none of which are totally effective or have received universal acceptance. A mixture of a tetracycline, an acid and a detergent (MTAD) has recently been suggested as a final irrigant to remove the smear layer and disinfect the root canal system. The properties of this solution will be compared to those of currently used intra-canal irrigants and medications.

At conclusion, participants should be able to:

- Recognize the complexity of the root canal system and structure of the smear layer.
- Discuss the effect of smear layer on cleaning and obturation of the root canal system and methods for its removal.
- Compare and contrast the actions of currently used root canal irrigants with those of a newly developed solution (MTAD) for the removal of the smear layer and disinfection of the root canal system.

Pharmacological Treatment of Odontogenic Infections

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

This presentation will provide an overview of the relative importance of patient factors, clinical factors and pharmacologic factors in managing endodontic infections; the mechanisms of antimicrobial drugs; those antimicrobial drugs that show the greatest activity against endodontic pathogens; the outcomes of clinical trials on the effects of antimicrobial agents on endodontic pain and infection; the value of combining pharmacologic and endodontic treatment approaches; and potential adverse effects and drug interactions with antimicrobial drugs.

At conclusion, participants should be able to:

- Understand the relative importance of antimicrobial drugs compared to patient factors and endodontic treatment approaches in treating odontogenic infections.
- Apply the knowledge of the relative advantages, adverse effects, drug interactions and costs of antimicrobial drugs in selecting the most appropriate pharmacologic strategy for treating endodontic infections.
- Determine patient response to treatment and the emergence of potential adverse effects after antimicrobial therapy.

New Trends in Canal Sterilization

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

The practitioner will be guided to a detailed understanding of canal sterilization. Emphasis will be placed on the role in disinfection/sterilization of the following elements: host defense, instrumentation, irrigation, local disinfectants and root filling. Newest research of the inactivation of disinfectants by local factors in the root canal will be presented to facilitate understanding success and failure in sterilization.

At conclusion, participants should be able to:

- Understand that canal sterilization is a concerted effort by several factors.
- Understand basic microbial ecology in the root canal.
- Understand inactivation of local disinfectants.

*Speakers serving as consultants and/or who have commercial interests in the subject matter are denoted by an asterisk. The statements and opinions expressed in session synopses are solely those of the individual speakers. Their statements and opinions do not reflect any opinion or endorsement by the AAE.*
EDUCATIONAL SESSIONS

➤ 8:30 – 10:30 a.m.

Management Widgets
Room 13/14
Moderator: Nora L. Salinas
Bellaire, Texas

Participants will learn about tools to improve patient contact procedures from the initial call to check out. Guidelines to assist in modifying and updating office practices and policies concerning patient contact will be presented. The three aspects of patient care to be addressed are taking the call, meeting and greeting, and check out, i.e., saying good-bye.

At conclusion, participants should be able to:
• Gain desired information from the initial patient call.
• Update and implement meaningful and positive “welcome to our office” procedures.
• Convey final appropriate patient information for check out and after care.

Typical Patient Questions Encountered When the Doctor Leaves the Room
Room 15/16
Moderator: Meghan Gautier
Lynn, Mass.

This presentation will cover those “hot topics” that patients are reading and asking about. Topics such as bleaching, veneers, dental esthetics and implants will be reviewed. Sometimes more of the questions about these treatments are directed to the staff when the doctor leaves the room. This lecture will cover many aspects of these treatments, provide answers to those questions and help inform patients so they can make educated decisions.

At conclusion, participants should be able to:
• Discuss current advances in crown, bridge and implant restorations to understand current restorative options for the endodontically treated tooth as well as the other teeth and/or areas in the mouth.
• Discuss other treatment modalities concerning esthetics, such as bleaching, veneers and all-ceramic crowns.
• Gain knowledge to address the items patients care most about: pain, function and appearance.

➤ 10:30 a.m. – noon

Oral Research Presentations I
Graduate Student Section
Room 10
Moderator: Shahrizah Shabahang, D.D.S., M.S., Ph.D.
Loma Linda, Calif.

10:30 a.m.
Leakage and Sealer Penetration in Smear-Free Dentin After a Final Rinse With 95% Ethanol
Richard W. Stevens, D.D.S., M.S. (presented)
Naval Postgraduate Dental School

10:45 a.m.
Sealing of Furcal Perforations With MTA and One-Up Bond
(This session will not be recorded.)
Ike Hadi, D.D.S. (presented)
F.R. Liewehr, A.P. Joyce, K. Axel, D.H. Balsley, U.S. Army Dental Activity, Ft. Gordon and Medical College of Georgia

11 a.m.
Effect of Storage on the Setting Time of MTA
Michael S. Winick, D.D.S. (presented)
M.L. Hicks, Albert Einstein Medical Center

11:15 a.m.
In Vivo Assessment of Root Fillings Augmented by White MTA Orifice Plugs
Terence Mui, D.D.S. (presented)
B. Barak, S. Friedman, University of Toronto

11:30 a.m.
Bond Strength Comparison of Three Cements for the Retention of Prefabricated Posts
(This session will not be recorded.)
Joseph W. Vargas, D.D.S. (presented)
F.R. Lehner, A.P. Joyce, R.A. Birner, U.S. Army Dental Activity, Ft. Gordon

11:45 a.m.
Evaluation of Ultrasonically Placed MTA in a Model of Apexification
George R. Lamley, D.D.S. (presented)
W.G. Schoeler, W.A. Walker, D. Kokordisbetz, Wilford Hall U.S.A.F. Medical Center and University of Texas at San Antonio
Oral Research Presentations II

Endodontist Section

Room 11
Moderator: Robert J. Loushine, D.D.S.
Martinez, Ga.

10:30 a.m.
Efficiency of NiTi Rotary Instrumentation in Root Canal Bacterial Elimination
Fabienne Perez, D.D.S. (presenter)
M.P. Christ, C. Barber, J.-F. Pelle, UFR Odontologie, Bordeaux, France

10:45 a.m.
Effectiveness of Root Canal Instrumentation With RaCe: An SEM Study
(This session will not be recorded.)
Michael A. Baumann, D.D.S., Ph.D. (presenter)
O. Leinbrock, M. Hellmich, U.A. Baumann-Giebel, University of Cologne, Germany, and Institute for Medical Statistics, Cologne, Germany

11 a.m.
Effect of Gates Glidden Bur Size on Residual Dentin Thickness in Mandibular Molars
Anthony L. Horlick, D.D.S., M.S. (presenter)
D.C. Smith, J.M. Carter, A.M. Best, U.S. Army Dental Activity, Hanau, Germany, and Virginia Commonwealth University

11:15 a.m.
Tissue Dissolution Capacity and Dentin Disinfecting Potential of Calcium Hydroxide Mixed With Irrigating Solutions
Matthias Zehnder, D.D.S. (presenter)
C. Hasegawa, T. Watzke, University of Zürich, Switzerland, Columbia University, and University of Turku, Finland

11:30 a.m.
Dimensional Stability of Rotary Nickel Titanium Instruments
Benjamin M. Bezold, D.D.S. (presenter)
B. Hageevin, H. Ferrara, B. Wallershausen, University of Mainz, Germany

11:45 a.m.
Comparison of the Anesthetic Efficacy of Maxillary Infiltration and Intraosseous Injection
John M. Niess, D.D.S., M.S. (presenter)
M. Wood, A. Reeder, M. Beck, D. Pajot, J. Weaver, Ohio State University

ABE Boardwalk: Focusing on the Case Portfolio

Room 12
The Directors of the American Board of Endodontics will highlight the case portfolio phase of the ABE certification process. Criteria for successful case portfolio submissions will be outlined along with suggestions for enhancing case selection, radiographic and narrative documentation, and portfolio assembly. The program is designed to provide interested individuals with the opportunity to interact with the Directors and to clarify concerns regarding the certification process.
Practice Solutions and Office Strategies

Room 13/14
Moderator: Terry A. Poppers, D.D.S., M.S.
Brentwood, Tenn.

Our panel of experienced office personnel comes from a variety of practice settings as well as geographic locations. However, the issues faced every day are universal for every practice. The session will include discussion on the dilemmas faced daily and the best strategies for dealing with them. The panel discussion will focus on customer service, insurance issues, collections and converting to a paperless office.

At conclusion, participants should be able to:
• Appreciate the importance of giving good service internally as well as externally.
• Understand how to control accounts receivable by utilizing the tools available to obtain goals.
• Benefit from minimizing errors and maximizing time.
• Compare “old school” versus “new school” in converting to a paperless office.

Infectious Hazards in Dentistry

Room 15/16
Moderator: Lynne A. Baldassari-Chiz, D.D.S.
Menlo Park, Calif.

Students study a variety of diseases during their education, never expecting to deal with them after the final examination. There has been a dramatic increase in the number of infectious diseases of significance to dentistry. This course is designed to provide an overview of clinical signs and symptoms of infectious hazards in the dental office. Emphasis will be placed on recognition, diagnosis procedures, treatment and referral.

At conclusion, participants should be able to:
• Describe the major clinical signs and symptoms of infectious hazards in dentistry.
• Describe the common diagnostic procedures for infectious hazards in dentistry.
• Describe the routine treatment of infectious hazards in dentistry.

Modern Endodontics and the Holistic Challenge

Room 18
Moderator: Arlene Stein, D.M.D.
Aurora, Calif.

This program will provide historical and evidence-based information regarding the relationship between oral health and systemic diseases. This course will focus on the endodontic relationship. Topics to be discussed will be the misinformation promulgated by some holistic healthcare professionals regarding systemic effects of endodontic infections and endodontic therapy.

At conclusion, participants should be able to:
• Apply this knowledge to the misinformation that some holistic health care professionals, including dentists, tell patients and the media.
• Explain to patients and our dental colleagues the evidence-based information that challenges the negative myths regarding endodontic infection and endodontic therapy.
• Understand the evidence-based approach the AAE has undertaken to answer the concerns regarding the relationship between endodontic disease and systemic health.

Achieving Precision in Endodontic Diagnosis and Treatment Planning

Room 19
Moderator: Stephen M. Wechsler, D.D.S.
Newark, N.J.

An accurate result in the diagnostic process is reliant upon meticulous observation, data collection and cognitive skills. A specific protocol to record and assimilate information, as well as a congenial approach to explain findings to patients and general dentists will be presented. This presentation will span the topics of cellular content of periapical lesions, perio-endo pathology, traumatic injuries and non-odontogenic “periapical lesions.”

At conclusion, participants should be able to:
• Understand diagnostic technique protocol in collecting and assimilating data.
• Understand differential diagnosis of lesions that are non-endodontic in origin.
• Diagnose and plan treatment for teeth that have undergone traumatic injury.
Microscopic Photography
Room 20
Moderator: Burt B. Morrison, D.D.S., M.S.
Idaho Falls, Ore.

This presentation will give a unique opportunity to the participants to understand and learn the principles of microscopic photography in its different forms. From conventional to digital, the participants will learn simple and easy clinical setups to create outstanding reports that enhance their communication with patients, referring dentists and insurance companies. This easy, step-by-step presentation will eliminate difficulties and resistances, even from the most computer-phobic endodontist.

At conclusion, participants should be able to:
• Know different microscopic photographic systems and choose one of them to use.
• Develop tools using various media to enhance communication with patients.
• Use the surgical operating microscope as a powerful documentation and communication tool.

Pulp Therapy for Permanent Tooth With Immature Apices
Room 21
Moderator: Donald J. Kleier, D.M.D.
Denver, Colo.

During tooth formation, all endodontic treatment must have as its goal preservation of pulpal vitality to allow completion of root development. This presentation will outline conservative methods and the difference in management of the pulp following traumatic injuries and caries. Included are pulp capping, pulpotomy, partial pulpotomy, new methods of treatment for pulpless permanent teeth and strengthening weak roots with bonded composite.

At conclusion, participants should be able to:
• Understand root development and associated pulpal problems, and how to strengthen weak roots.
• Learn differences in treating pulpal involvement with caries and traumatic injuries.
• Learn techniques to greatly shorten treatment times for pulpless teeth with incomplete developed apices.

Take Two Aspirin and Call Me in the Morning
Room 22/23
Moderator: Louis E. Rossman, D.M.D.

Pain management can be considered the foundation of clinical dentistry. This presentation will examine the role of the nonsteroidal anti-inflammatory drugs (NSAIDS), acetaminophen and narcotics in the treatment of pain. There are over 20 NSAIDS marketed and numerous acetaminophen, narcotic combinations. This clinically-oriented presentation will focus on the mechanisms of action of these various drugs, side effects, contraindications, drug interactions and limitations. Information about dose, duration of action and onset will be included.

At conclusion, participants should be able to:
• Compare and contrast the mechanisms of action, side effect profile and risks associated with the various NSAIDS, narcotics and acetaminophen.
• Know the FDA Pregnancy Risk Factor assigned to each class of drugs.
• Know the contraindications of each class of drugs presented.

Are You Referring to Me?
Room 24/25
Moderator: Robert L. Reames, D.D.S., M.S.D.
Arlington, Texas

This fast-moving lecture is filled with practical, hands-on, user-friendly pearls that endodontists can take back to their offices and use immediately. Topics include developing new referral sources, motivating dentists to refer, incorporating new technology into the practice, handling financial arrangements with patients and staff motivation. There will also be a special section on how to target “rising stars” among general dentists and turn them into referral superstars.

At conclusion, participants should be able to:
• Create a “mini-marketing plan” and put it into action for maximum results.
• Position their practice and serve as a problem-solver who is sought by general dentists.
• Cultivate new referral sources.
Creating Endodontic Excellence

Ballroom A
Moderator: Kevin T. King, D.D.S.
Chicago, Ill.

(This session will not be recorded.)

Properly performed endodontic treatment is the cornerstone of restorative and reconstructive dentistry. This session will review basic biological principles and emphasize the evidence-based decisions and techniques that serve to promote the long-term retention of essential teeth. This presentation will focus on the critical factors that guide each case to successful completion, including root canal system anatomy, access cavities, three-dimensional cleaning and shaping procedures, finishing criteria and vertical condensation of warm gutta-percha.

At conclusion, participants should be able to:
- Identify the biological and clinical factors that influence success.
- Utilize “microsonic” techniques to refine and finish the access preparation.
- Create fully-tapered shapes and clean root canal systems.

Oral Presentations III
Graduate Student Section
Room 10
Moderator: Harold E. Goodis, D.D.S.
San Francisco, Calif.

1:30 p.m.
Apical Extrusion of Thermoplasticized Obturating Material in Canals Instrumented With ProFile .06 or ProFile GT
Mark J. Badger, D.M.D. (Presenter)
N. J. McDonald, P.J. Mullally, University of Michigan

1:45 p.m.
Intracanal Placement of Calcium Hydroxide: A Comparison of Techniques—Revisited
Craig P. Torres, D.D.S. (Presenter)
M. I. Apesteguia, P.P. Yancio, M.H. Prader, U.S. Army Dental Activity, Ft. Bragg, N.C., and Medical College of Georgia

2 p.m.
Fractographic Analysis of Experimentally Separated NiTi Rotary Files
Thomas A. Kham, D.M.D. (Presenter)
J.R. Kelly, L.S. Spangberg, University of Connecticut

2:15 p.m.
Comparison of Three Instrumentation Techniques in Curved Canals
Vernon D.H. Casey, D.M.D. (Presenter)
M. I. Apesteguia, P.P. Yancio, M. Prader, U.S. Army Dental Activity, Ft. Bragg, N.C., and Medical College of Georgia

2:30 a.m.
Effectiveness of Three Instrumentation Systems in the Cleaning of Root Canals
Neal E. Appelstein, D.M.D. (Presenter)
M. Do, M.K. Iqbal, S. Kim, University of Pennsylvania

2:45 p.m.
Use of All-In-One Adhesives to Seal Resected Apices
Michael J. Murphy, D.M.D. (Presenter)
R.J. Lubowicz, D.H. Patney, R.N. Weller, Medical College of Georgia

Oral Presentations IV
Endodontist Section
Room 11
Moderator: Clara M. Spithofe, D.D.S., M.S.
Sewickley, Pa.

1:30 p.m.
Indirect Digital Image Compression for Endodontics
Martina Shadlein, D.D.S. (Presenter)
J. M. McCreary, National University of Rosario, Argentina

1:45 p.m.
Retreatment of Root Canals Filled With Various Canal Sealers: An In Vitro Study
Delen M. Oalak, D.D.S., Ph.D. (Presenter)
O. Arela, Ankara University, Turkey

2 p.m.
Association of Spirochetes With Endodontic Infections
J. Craig Baumgartner, D.D.S., M.S., Ph.D. (Presenter)
S. Khemvisiekul, Y. Kuo, Oregon Health & Science University and Chung Mai University, Thailand

2:15 p.m.
Helicobacter Pylori: The Oral Cavity as Potential Reservoir
Kimberly N. Pugh, D.M.D. (Presenter)
B. Hojamb, E. Whitaker, D. Freedel, E.B. Tho, R.H. Stevens, Temple University, Temple University Hospital and State University of Rio de Janeiro, Brazil

2:30 p.m.
Calcium Hydroxide Reduces LPS Stimulated Osteoclast Formation
(This session will not be recorded.)
Jin Jang, D.D.S., Ph.D. (Presenter)
J. Zuo, S.H. Cheng, L.S. Holliday, University of Florida

2:45 p.m.
Statistical Evaluation of the Apical Region of Maxillary Front Teeth
Berta Willebroden, D.D.S. (Presenter)
M. El-Sayed, B. Beisberg, University of Mainz, Germany
Treatment Considerations of Endodontically-Involved Teeth With a Periradicular Lesion

Room 12
Moderator: Scott B. McClamman, D.D.S., M.S.
Burke, Va.

This presentation will give audiences a more predictable treatment outcome of endodontically-involved teeth with a periradicular lesion, based on the most updated evidence-based studies. The topics to be discussed will cover etiology of the periradicular lesions, pattern of bacterial colonization in the root canal and dentinal tubules, chemomechanical instrumentation, acute exacerbation, therapy-resistant periradicular lesions, teeth with calcified canals, antimicrobial therapy, and controversy in single and multiple visit therapy.

At conclusion, participants should be able to:
• Understand the primary etiology of periradicular lesions.
• Recognize the importance of bacteriologic control in treating endodontic periradicular lesions.
• Know the limitation of antimicrobial therapy in treating endodontic periradicular lesions.

Practice Solutions and Office Strategies

Room 13/14
Ruby Rocha-Rylander, Davenport, Iowa
See p. 11 for a complete session synopsis.

Infectious Hazards in Dentistry

Room 15/16
Dennis Linch, D.D.S., Ph.D., Milwaukee, Wis.
See p. 11 for a complete session synopsis.

Microsurgical Soft Tissue Management in Endodontic Surgery—How to Reduce, Possibly Avoid, Recession

Room 18
Moderator: Hirsh Permpengmong, B.D.S., D.D.S., M.S.
Buffalo, N.Y.

Wound healing following marginal, sulcular flap results in recession of gingiva and loss of papilla height. However the extent of recession occurrence may depend on pathologic conditions and surgical technique used. Current flap designs, incision techniques and their limitations will be reviewed. A new flap design, the papilla base flap, will be presented. Short- and long-term clinical results demonstrate almost recession free healing of interdental papilla, when appropriate surgical techniques and methods have been used.

At conclusion, participants should be able to:
• Understand the biologic and technical factors that affect healing of the marginal soft tissues.
• Recognize advantages and limitations of current flap designs.
• Learn how to prevent and/or limit recession of the gingival tissues using microsurgical techniques.

Geriatric Endodontics

Room 19
Moderator: Glenn L. Phillips, D.D.S.
Orlando, Fla.

The quality of life for older patients can improve significantly by saving teeth through endodontic treatment and can have a large and impressive value in overall dental, physical and psychological health. Dental services for the older adult population require care from dentists who have advanced training in geriatric dentistry. The purpose of this presentation is to discuss the effect of aging on the diagnosis of pulpal and periradicular disease and successful root canal treatment.

At conclusion, participants should be able to:
• Understand the epidemiology of the elderly population, the incidence and prevalence of their dental disease, and the needs and expectations unique to the elderly.
• Recognize the degree of difficulty that is a factor in successful endodontic care of the elderly.
• Assist the elderly in the decision-making process when endodontic treatment is an option.
Apical Periodontitis and Systemic Disease Caused by Oral Microorganisms

Room 20
Moderator: Mitchell H. Duck, D.M.D.
Morristown, N.J.

A review of apical periodontitis and extraradicular infections will be presented. Recent studies have suggested that oral infection, especially marginal and apical periodontitis, may be a risk factor for systemic diseases. It has become increasingly clear that oral microorganisms can disseminate to distant body sites after dental procedures including endodontic therapy. This session will provide insight to the chances for oral microorganisms to spread in the bloodstream. Further, the relationship between oral infection and systemic diseases will be reviewed as well as the reliability of antibiotic prophylaxis regimens used today.

At conclusion, each participant should be able to:
• Describe the major microorganisms associated with endodontic infection.
• Describe the pathways linking oral infection to secondary non-oral diseases.
• Describe the systemic diseases associated with oral infection and understand the effectiveness of antibiotic prophylaxis.

Odontogenic Infections: Epidemiology, Microbiology, Clinical Manifestations and Management

Room 21
Moderator: Paul A. Rosenberg, D.D.S.
New York, N.Y.

The complexities and complications of odontogenic infections as they present clinically will be reviewed. Specific attention will be given to the epidemiology, microbiology and pathogenesis as a basis for clinical management in terms of surgical treatment and antibiotic therapy.

At conclusion, participants should be able to:
• Understand the pathogenicity of bacterial interactions.
• Describe the anatomic fascial spaces involved.
• Enumerate appropriate treatment modalities.

The Rationale for Low-Torque Nickel-Titanium Rotary Instrumentation

Room 22/23
Moderator: James L. Jeste, D.D.S., M.S.
Iowa City, Iowa

This presentation will provide the principles necessary for understanding, evaluating and using low-torque endodontic motors to their greatest benefits. Participants will learn the concept and application (advantages and disadvantages) of torque-control endodontic motors and appreciate the stress factors (anatomy, applied forces, instrument’s design, techniques and operative sequences) that affect nickel-titanium rotary instruments during intracanal use and how to compensate for them.

At conclusion, participants should be able to:
• Appreciate the safety features and benefits of low-torque endodontic motors.
• Gain an intimate knowledge of stress factors that affect nickel-titanium rotary instruments and develop techniques to maximize efficiency while minimizing risks of intracanal failure.
• Decide which technique approach is the most appropriate for a particular tooth status and anatomy.

Are You Referring to Me?

Room 24/25
David Schmar, Ph.D., Lake Mary, Fla.
See p. 12 for a complete session synopsis.

Creating Endodontic Excellence

Ballroom A
*Clifford J. Ruddle, D.D.S., Santa Barbara, Calif.
See p. 13 for a complete session synopsis.
Oral Research Presentations V
Graduate Student Section
Room 10
Moderator: Ashraf F. Fouad, D.D.S., M.S.
Farrington, Conn.

3:30 p.m.
Identification of Resected Root-End Dentinal Cracks: A Comparative Study of Transillumination and Staining
Henry M. Wright Jr., D.D.S. (Presenter)
R.J. Louisiane, R.N. Weiler, M.H. Parker, D.H. Pasley, Medical College of Georgia

3:45 p.m.
Clinical Success of a Postoperative Six-Day Oral Dose Regimen of Methylprednisolone in Symptomatic Necrotic Teeth
Kathryn W. Ownkin, D.D.S., M.S. (Presenter)
A. Reader, J. Neustein, M. Beck, J. Weaver, D. Padgett, Ohio State University

4 p.m.
Comparison of Image Quality of F-Speed and D-Speed Film Radiographs After Processing With Three Different Rapid Chemistry Processing Solutions
Adam J. Sipp, D.M.D. (Presenter)
S.J. Clark, W.C. Schaefer, A.G. Farman, J.P. Scheetz, University of Louisville

4:15 p.m.
Anesthetic Efficacy of Articaine in PDL Injections Using the Wand
Jeff S. Berkin, D.D.S. (Presenter)
J. Neustein, A. Reader, M. Beck, J. Weaver, Ohio State University

4:30 p.m.
Disinfection and Sterilization Techniques for System B Pluggers
(This session will not be recorded.)
Christopher J. Cook, D.M.D. (Presenter)
J.P. Scheetz, R.H. Staat, S.J. Clark, University of Louisville

Oral Research Presentations VI
Graduate Student Section
Room 11
Moderator: Kenneth M. Hargreaves, D.D.S., Ph.D.
San Antonio, Texas

3:30 p.m.
Effect of MTAD on Some Physical Properties of Enamel and Dentin
Tanya K. Machnick, D.D.S. (Presenter)
C. Minoz, S. Sarabarm, M. Torabinejad, Loma Linda University

3:45 p.m.
Are Analgesic Peptides Released by Dental Pulp Cells in Response to Bacterial Toxin?
Angela S. Muddie, D.D.S. (Presenter)
G.R. Holland, C.M. Kirkpatrick, T.M. Botero, J.E. Nor, University of Michigan

4 p.m.
Comparison of Vioxx™ to Ibuprofen in Postoperative Emergency Endodontic Patients: A Randomized Placebo- and Double-Blind Controlled Clinical Trial
Nimad Dayani, D.D.S. (Presenter)
H. Rankin, L. Raymond, Temple University

4:15 p.m.
Efficacy of Pain Control Following Non-Surgical Root Canal Treatment Using Ibuprofen or a Combination of Ibuprofen and Acetaminophen in a Randomized, Double-Blind, Placebo-Controlled Study
Kim A. Menhinick, D.D.S. (Presenter)
J.L. Gutmann, J. Regan, S. Taylor, E. Solomon, Brodie College of Dentistry

4:30 p.m.
Reliability of Electrical Pulp Tester and Tetrafluoroethane Following Premedication With Analgesics
Tuan H. Nguyen, D.D.S. (Presenter)
A.K. McKee, S. Grozze, J.I. Jones, T.M. Crandall, Case Western Reserve University
Automated Canal Preparation: A Hands-On Workshop

Room 17
Workshop required registration in advance.

This all-day course is designed to provide participants the opportunity to learn current techniques and methods for canal preparation using rotary and reciprocating hand pieces. Participants will be given an overview of the file design and recommended technique for eight commercially available systems by representatives of their respective manufacturers. Each workshop participant will have the opportunity to employ each system in the preparation of simulated canals in plastic blocks. Participating companies include: DENTSPLY Tulsa Dental (Profile, ProSystem GT, Protaper) LIGHTSPEED TECHNOLOGIES (LightSpeed) MOYCO UNION BROACH (Power-R) SYBRON DENTAL (Quantec, K-3) ULTRADENT (Endo-Eze)

At conclusion, participants should be able to:
- Compare and contrast the design of rotary and reciprocating files.
- Describe the automated techniques for canal preparation.
- Discuss the advantages and disadvantages of each system.

An Update on Answers to Third-Party Reimbursement Issues and CDT-4 Endodontic Insurance Codes

Room 13/14

This presentation will provide an update on the AAE Dental Benefits Committee process and its progress with new products available soon to help the membership address third-party reimbursement issues. It will include the introduction of an anticipated new patient education pamphlet describing dental insurance benefits and a membership kit that includes sample letters and suggestions for working with third-party payers, and other updates on dental benefits that might be helpful. Participants will also learn about the American Dental Association’s new CDT-4 codes, effective January 1, 2003, that affect endodontic procedures. The presentation will include an update on the new CDT-4 codes that may be useful in endodontic practices and a review of insurance coding for common endodontic scenarios.

At conclusion, participants should be able to:
- Understand how the Dental Benefits Committee works with the membership.
- Understand how the new dental benefits kit will assist members with third-party reimbursement issues.
- Understand the new CDT-4 codes that are useful for endodontic practices.
- Understand how to accurately code common endodontic treatment scenarios.
- Understand where to locate information to correctly code unusual procedures.
The Dental Assistant’s Role in Enhancing the Patient’s Experience in the Endodontic Practice

**Room 15/16**  
**Moderator: Peter A. Morgan, D.M.D.**  
Lynn, Mass.

Many patients arrive at the endodontic office with apprehension about their impending treatment. Dental assistants can play a significant role in reducing patient anxiety and improving the quality of the patient’s experience, from greeting the patient in the waiting room to returning the patient to the front desk. Topics of discussion include professional greeting, escort and introduction to the treatment room, methods of reducing the patient’s anxiety, explaining the details of treatment, post-operative treatment review, and dealing with parents and children.

At conclusion, participants should be able to:
- Understand how to reduce patients’ anxiety.
- Understand how to communicate well with patients.
- Recognize how to increase patient satisfaction.

Digital Radiography: To Switch or Not to Switch—Are We There Yet?

**Room 18**  
**Moderator: Michael M. Heen, D.D.S.**  
Detroit, Mich.

Take a journey from where we have been to where we are now and where we can go in the future. This lecture will allow practitioners to see the evolution of digital radiography from its origins to what is on tap for the future. Practitioners will experience firsthand all current systems on the market today, seeing them in action, and understanding the “terminology” used to describe the ins and outs of each system.

At conclusion, participants should be able to:
- Understand what digital radiography is and how it works.
- Make sense of sensors and understand what a pixel is and why it is important.
- Understand the advantages and disadvantages of digital radiography vs. conventional x-ray films.

Pulpal Inflammation: Physiological and Cellular Mechanisms and Their Clinical Manifestations

**Room 19**  
**Moderator: Ashraf E. Fouda, D.D.S., M.S.**  
Farmington, Conn.

This presentation is designed to introduce new basic research information on anatomical, functional and cellular mechanisms of pulpal inflammation and how this information can be used to interpret clinical findings. Topics include effects of neuropeptides on pulpal microcirculation and sensory nerves and the involvement of cGMP and cAMP in the underlying cellular mechanisms. Other new information on pulpal inflammation, the biological bases and clinical relevance will be discussed.

At conclusion, participants should be able to:
- Understand the cellular mechanisms of pulpal inflammation involving neuropeptides.
- Apply this knowledge in the interpretation of diagnostic findings, e.g., sensitivity to heat and cold, etc.
- Understand and/or apply the new information related to pulpal inflammation.

The Endodontist’s Dilemma—Retreatment or Implant?

**Room 20/21**  
**Moderator: Kim A. Court, D.D.S., M.S.**  
Amarillo, Texas

Endodontists often face challenges to choose endodontic retreatment or tooth extraction and an implant. This presentation addresses philosophy on implant usage, success/failure and prognosis, along with similar viewpoints on both non-surgical and surgical endodontic retreatment.

At conclusion, participants should be able to:
- Discuss the philosophy and rationale for choosing an implant over endodontic retreatment.
- Develop a treatment plan to address the need for endodontic retreatment and tooth retention with a high degree of probability.
- Discuss important parameters to be considered in differential treatment planning.
Persistent Endodontic Disease: Clinical Decision-Making

**Room 22/23**
**Moderator:** Ken R. Brungardt, D.D.S., PH.D. OAKDALE, MINN.

When there is persistence of disease in endodontically treated teeth, the practitioner must first diagnose the cause of the endodontic failure and then help the patient to decide on a course of action to remedy the situation. The options would include extraction, nonsurgical retreatment, periradicular surgery and intentional replantation. This scientific and case-based presentation will provide information about these options to the clinician to help formulate a treatment plan that would have the greatest likelihood of long-term success.

At conclusion, participants should be able to:
- Understand the etiology of persistent endodontic disease.
- Apply this knowledge to produce rational treatment planning.
- Enhance the prognosis of clinical cases through a variety of useful techniques and methodologies.

Endodontic Office Design and Renovation

**Room 24/25**
**Moderator:** Darlene C. Melton, D.D.S. DOWNERS GROVE, ILL.

Endodontic office design should reflect the state-of-the-art status that the specialty has achieved. This presentation will provide guidelines and inspiration for the design of new construction and renovations. The program starts with a history of the dental office and includes dramatic images of offices from around the globe, detailed “case studies” of recent designs and much more. Topics include the differences between specialty and general practice design, and the role of the practitioner in the process.

At conclusion, participants should be able to:
- Identify endodontic office design and renovation trends, and integrate these ideas with the functional needs of their own office.
- Understand the elements of a stress-reduced environment for endodontists, patients and staff.
- Describe the three classic components of the design process and special issues associated with renovation.

Recent Advances in Treatment of Traumatic Dental Injuries

**Ballroom A**
**Moderator:** Asger Sigurdsson, D.D.S., M.S. CHAPEL HILL, N.C.

Recent advances in the understanding of pulp and periodontal healing after trauma has significantly simplified trauma treatment. This course will stress a biologic approach to treatment as well as cost/benefit analysis of different treatment procedures. Early diagnosis and treatment possibilities of various pulpal and periodontal complications will be described.

At conclusion, participants should be able to:
- Select treatment methods that optimize pulp and periodontal ligament healing after trauma.
- Use clinical and radiographic methods that can demonstrate healing complications.
- Estimate the long-term prognosis for various trauma entities.

Nonsurgical Endodontics

**Ballroom D**
**Moderator:** Tom G. Gund, D.D.S. LINCOLN, NEB.

This presentation will introduce practitioners to the different aspects of nonsurgical endodontic treatments, emphasizing the importance of the three-dimensional concept related to the anatomic topography, the cleaning and shaping maneuvers, and the obturation procedures. Different materials, techniques, and strategies will be discussed in order to solve the different clinical situations.

At conclusion, participants should be able to:
- Understand the importance of the three-dimensional concept for the endodontic treatment.
- Apply different procedures to each clinical situation.
- Use nonsurgical endodontic treatments to solve the majority of the endodontic problems.
Oral Research Presentations VII

Graduate Student Section

Room 10
Moderator: Darrell W. Zenk, D.D.S., M.S.D.
Inver Grove Heights, Minn.

8 a.m.
Internal Geometry of Tissue Engineering Scaffold and Its Effect on Cell Seeding
Nelofar Kadoram, D.M.D. (presenter)
J.W. Hutter, L.S. Choi, Boston University

8:15 a.m.
Effects of Various Hemostatic Agents on Bone
David D. Roland, D.D.S. (presenter)
P. McMullan, S. SahaYiang, M. Tobbinnen, Loma Linda University

8:30 a.m.
RPP Patient Sera Possess Gingipain-Specific Antibodies That Facilitate Neutrophil-Mediated Opsonophagocytosis of Porphyromonas Gingivalis
(This session will not be recorded.)
Juan E. Sarelli, D.M.D. (presenter)
T.E. Van Dyne, F.C. Girson, Boston University

8:45 a.m.
Effects of Neurotrophic Factors on Neurosecretion of Adult Rat Trigeminal Ganglion Neurons in Culture
Dawnae Candelario-Soto, D.M.D., M.P.H. (presenter)
M.D. Louina, T.J. Price, C.M. Flores, Wilford Hall U.S.A.F. Medical Center and University of Texas at San Antonio

9 a.m.
Emdogain Promotes Osteoblast Proliferation and Differentiation While Inhibits Osteoclast Formation and Function In Vitro
Jiun-Hue, D.D.S. (presenter)
K. Saito, L.S. Synnerg, Q. Zhi, University of Connecticut

9:15 a.m.
Study of Bone Mass and Wound Healing
(This session will not be recorded.)
Douglas B. Kraut, D.M.D. (presenter)
H. Lu, H. Schleider, J.W. Hutter, D. Graves, Boston University

10 a.m.
The Role of IL-1 Isoforms in Disseminating Pulpal Infection
Husam A. Yousef, D.D.S. (presenter)
P. Strachino, Harvard School of Dental Medicine and Forsyth Institute

10:15 a.m.
Effects of Neurotrophic Factors on Neurochemical Phenotype and Survival of Adult Rat Trigeminal Ganglion Neurons in Culture
Michael D. Louha, D.M.D. (presenter)
D. Candelario-Soto, T.J. Price, C.M. Flores, Wilford Hall U.S.A.F. Medical Center and University of Texas at San Antonio

Faculty Development Seminar:
The Integration of Computer-Based Resources to Support Dental Education

Room 11
Moderator: Gerald N. Glickman, D.D.S., M.S. J.D.
Dallas, Texas

The dramatic growth in the societal use of information technology, the increasing power and mobility of personal computing devices, the rapid advancements in the health sciences and growing medical knowledge-base has made computer-based information resources an essential tool in supporting missions of academic health centers. Strategic planning should encompass developing an infrastructure to support “point of experience” computing in both didactic and clinical educational processes. Participants will gain a broad perspective of technology integration issues in supporting dental education and increase their interest in technology adoption.

At conclusion, participants should be able to:

• Understand planning and implementation issues for the comprehensive use of computer-based technology in dental academic settings.
• Determine methodology for student acquisition of computers and technology training and digital distribution of educational references for students.
• Understand how to integrate clinical information systems, clinical support and personal productivity applications.

Special Presentation: Teaching Endodontics Using Multimedia Programs

This special presentation will address the possibilities and use of an endodontic multimedia program in endodontic teaching and self-learning in both pre- and postdoctoral curricula. Practical examples of this computer program covering the field of endodontics will be presented.

At conclusion, participants should be able to:

• Understand how endodontic multimedia programs can be integrated into pre- and postdoctoral curricula.
• Apply endodontic multimedia program for self-learning purposes.

The Endodontic Section of the American Dental Education Association will conduct a business meeting during the final 30 minutes of this session.
Poster Research Presentations

Graduate Student Section

East Hall

PR 1
Effect of Metal and Plastic Rubber Dam Retainers on Procera and Porcelain-Fused-to-Metal Crowns
William A. Adams, D.D.S., University of Michigan

PR 2
Effectiveness of the Apical Seal Obtained Through Orthograde MTA Placement
Ahmed Al-Kharrami, D.D.S., State University of New York at Buffalo

PR 3
Placement of Mineral Trioxide Aggregate Using Two Different Techniques
Anita Amohiasahku, D.D.S., Virginia Commonwealth University

PR 4
K3 Endo and Pro Taper: Breakage and Distortion in Molars
Matthew T. Ankonu, D.D.S., Virginia Commonwealth University

PR 5
Mechanism of In Vitro Neurotoxicity of Root-End Filling Materials
Mahesh Aswani, D.D.S., Marquette University

PR 6
Effect of Cryogenic Tempering on the Wear Resistance of Two Types of Stainless Steel Hand Files
Robert W. Beals, D.D.S., State University of New York at Buffalo

PR 7
Low Cycle Fatigue of a Rotary Endodontic Instrument
Sheldon A. Best, D.D.S., University of Toronto

PR 8
Biopsy: Do You Really Want to Know?
George T. Brown, D.M.D., Case Western Reserve University

PR 9
Comparison of Success Rates in Patients Receiving Both One-Appointment and Two-Appointment Root Canal Therapy
Kelly L. Bussey, D.D.S., University of Louisville

PR 10
Evaluation of Pre-Operative Ibuprofen in Vital Cases with Occlusal Reduction

PR 11
Patient Satisfaction Survey: A Valuable Tool in Patient Management
Seng Dongpongphan, D.D.S., and Jilwen L. Sun, D.M.D., New York University

PR 12
Age-Related Differences in Furcation Canals Studied by Means of Quantitative Micro-Computed Tomography
Ashley A. Emen, D.M.D., Columbia University

PR 13
Effect of Chlorhexidine Gluconate as an Endodontic Irrigant on the Apical Seal: Long Term Results
David B. Ferguson, D.D.S., Virginia Commonwealth University

PR 14
Effect of Endodontic Solutions on Resorcinol-Formalin Paste in Teeth
Madison C. Gambell, D.D.S., Virginia Commonwealth University

PR 15
Making the Call: Endodontic Radiographic Interpretation
Baetz O. Gielsert, D.D.S., University of Maryland

PR 16
Properties of Endocal 10 and Its Potential Impact on the Structural Integrity of the Root
Robert A. Goldberg, D.D.S., Nova Southeastern University

PR 17
RANKL, The Key Bone Resorption Regulator in Endodontic Lesions
Tun-Yi Hsu, D.D.S., M.S., Boston University

PR 18
Bacteria in Roots Identified by Laser Microdissection and DNA-DNA Hybridization
Lyu Hearing, D.D.S., Harvard School of Dental Medicine

PR 19
Effect of Sonic Oscillation on Canal Cleanliness
Megan A. Jurecko, D.M.D., University of Florida

PR 20
Antimicrobial Activity of Cut-Trol
Igor Kantorovich, D.M.D., Case Western Reserve University

PR 21
A Unique Apparatus for the Evaluation of Nickel-Titanium Rotary Files: Torsional Forces and Cutting Efficiency Under a Controlled Amount of Pressure
Steven D. Keller, D.D.S., State University of New York at Buffalo

PR 22
Bacterial Adherence and Penetration of Guided Tissue Regeneration Barriers
John W. King, D.D.S., Case Western Reserve University
Poster Research Presentations, continued

PR 23
Reduction of Intracanal Bacteria Using GT Rotary Instrumentation, 5.25% NaOCl, EDTA and Ca(OH)₂
Robin E. McGovern, D.D.S., University of North Carolina

PR 24
An Innovative Endodontic Surgical Flap to Solve Unique Endodontic Surgical Problems
Umaedi P. Nwah, D.M.D., University of Pittsburgh

PR 25
Assessing the Benefit of the Operating Microscope in Undergraduate Endodontics
Michael E. Ranabasso, D.D.S., University of Toronto

PR 26
Pulp Revascularization of Replanted Immature Teeth After Topical Treatment With Minocycline
Alessandra L.S. Ritter, D.D.S., University of North Carolina

PR 27
Deep Irrigation of Root Canal System Utilizing a Newly Developed Microdelivery and Microirrigation System
Waleed Sheh, D.M.D., University of Pittsburgh

PR 28
Comparison of Media Used for Root ZX In Vitro Analysis
Paul A. Shepherd, D.M.D., University of Louisville

PR 29
Biocompatibility and Mitogenic Effect of Several Root End Filling Materials in Osteoblast and Odontoblast Cultures
S. Shin, D.M.D., and H-Ping Chen, D.D.S., University of Pennsylvania

PR 30
In Vitro Microbial Leakage of Roots Obturated With New and Standard Techniques
Guy Shopper, B.D.S., University of North Carolina

PR 31
Can ProRoot Become More Microbe “Unfriendly”
Kumar Subramaniam, B.D.S., M.D.S., Case Western Reserve University

PR 32
Ten Minutes of Calcium Hydroxide
Anand W. Suresh, D.D.S., Case Western Reserve University

PR 33
Accuracy of the Root ZX Electronic Apex Locator Using Stainless Steel and Nickel-Titanium Files
Anthony S. Thomas, D.D.S., M.S., Virginia Commonwealth University

PR 34
Development of a Fluorescent Technique to Trace Nerves Essential to Perform Endodontic Surgery
Iordan Volokhny, D.M.D., University of Pittsburgh

PR 35
Effect of Ultrasonics on Post Removal When Applied at Fifteen-Second Intervals
J. Eric Wallace, D.M.D., M.S., University of Louisville

PR 36
Effect of Smear Layer on Bacteria Penetration
I. Eniu Wang, D.M.D., University of Maryland

PR 37
Cerebral Concussions and Dental Injuries: Incidence Associated With Types of Mouthguards Worn
John F. Wissenski, D.M.D., University of North Carolina

PR 38
Microleakage of Separated ProFile Instruments in Simulated Resin Root Canals
Clifford T. Wong, D.D.S., Case Western Reserve University

Table Clinics
Graduate Student Section
East Hall

TC 1
Adventures in Anatomy
Percy C. Bolen III, D.D.S., University of Texas at San Antonio

TC 2
Root Resorption: Attempting to Reach Treatment Planning Consensus
Lynn S. Brinker, D.M.D., and Gregory T. Engel, D.M.D., Naval Postgraduate Dental School

TC 3
An In Vitro Model of the Use of Bone Cement to Repair Fractured Roots
Tomas E. Causie, D.D.S., Marquette University

TC 4
Ensuring Endodontic Success With Coronal Barriers
Francisco J. Cestero, D.M.D., University of Texas at San Antonio

TC 5
Clinical Presentation of Apical Pulpal Calcification With a Pulp Chamber Free of Calcification
Lisa A. Ellingeen, D.D.S., University of Louisville
TC 6
Cholesterol Crystals and Their Role in Refractory Lesions of Endodontic Origin
Robert B. Folk, D.D.S., Naval Postgraduate Dental School

TC 7
Application of Computed Tomography and Three-Dimensional Imaging in Endodontics

TC 8
Use of Micro-Computed Tomography to Evaluate Extracted Endodontically Treated Teeth
Lance K. Hashimoto, D.D.S., Marquette University

TC 9
Size Incompatibility Between Finger Spreaders and Gutta-Percha Accessory Cones in the Cold Lateral Compaction Technique
Bernard H. Hofmann, D.M.D., and Brent J. Crompton, D.M.D., Naval Postgraduate Dental School

TC 10
Debridement of Irregular Canals With NiTi Rotary Instruments Used in a Circumferential Manner
Pui King, B.D.S., and Monica Chiammonds, D.D.S., Baylor College of Dentistry

TC 11
Comparative Evaluation of Several Crown Removal Systems

TC 12
Acute Suppurative Parotitis: Unusual Clinical Presentation
A.K. Bobby Mullin, B.M.D., University of Iowa

TC 13
A Simple Technique for Placement of an Intracanal/Intraorifice Barrier

TC 14
Implants vs. Endodontics: Leveling the Playing Field
Michael J. Minnella, D.D.S., Case Western Reserve University

TC 15
Recommended Plugger Sizes for Different Root Canal Preparations in Warm Vertical Obturation Technique
Sasal Mozaffarian-Jameh, M.S., D.D.S., University of Michigan

TC 16
Geristore as a Root-End Filling
Edward B. Nokes III, D.M.D., Albert Einstein Medical Center

TC 17
Endodontic Applications for Enamel Matrix Derivative
Alex A. Paris, D.D.S., Albert Einstein Medical Center

TC 18
Rationale for a Larger Apical Preparation of the Root Canal
Ajin S. Ro, D.D.S., Albert Einstein Medical Center

TC 19
A Method for the Predictive Placement of Mineral Trioxide Aggregate in One-Visit Apexification Cases

TC 20
SEM Evaluation of the Prepared Dentinal Surface From Two Rotary Files
Sheila E. Stover, D.D.S., and David Y. Chon, D.D.S., Marquette University

TC 21
Visual Comparison of Apical Preparations in Curved Canals With Various Instruments
Carlise Try, D.M.D., M.P.H., University of Texas at San Antonio

TC 22
Video Capture Techniques for the Endodontist
Matthew B. Walsh, D.M.D., Albert Einstein Medical Center
Past, Present and Future Electronic Claims Submission: How Can it Benefit Your Practice and Your Patients?

**Room 13/14**

*Moderator: Frank J. Wilkinson, D.D.S.*

Laguna Hills, Calif.

Dr. Navarro is the Vice President of Professional Relations and Dental Director for Delta Dental Plan of New Jersey, Inc. This presentation will cover thoroughly the use of Electronic Claims Submission (ECS) to improve office claims management for the benefit of both dentists and their patients. Topics to be discussed include basic mechanisms and advantages of ECS; necessary steps to begin ECS; and methods to improve current ECS. Other topics include future trends affecting ECS and the Internet, and a brief overview of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) as related to ECS.

At conclusion, participants should be able to:

- Understand the basic mechanisms and necessary steps to begin the use of ECS.
- Understand how to improve current ECS.
- Understand future trends in ECS including how HIPAA will impact ECS.

The Assistant and Dental Operating Microscopes (DOM) in Endodontics

**Room 15/16**

*Moderator: Mark A. Ooom, D.D.S.*

Cary, N.C.

(This session will not be recorded.)

This presentation will familiarize participants with optical principals and basic design of Dental Operating Microscopes and discuss its required maintenance and assuring asepsis. This session will outline the scope of DOM clinical applications and explain the importance of comprehensive room and patient preparation. This presentation will encourage “doctor/assistant team” preclinical practice, teach effective chair-side techniques and team communication, and highlight promotional value of utilizing DOM for the office.

At conclusion, participants should be able to:

- Understand design and operation of DOM.
- Be familiar with clinical assisting techniques.
- Use DOM for patient education and as a confidence “builder.”

The “Interactive 3-D Tooth Atlas”: Its Use in Learning and Clinical Practice

**Room 19**

*Moderator: Ronald R. Lemon, D.M.D.*

New Orleans, La.

This lecture will demonstrate the latest edition of Brown and Herbranson’s *Dental Anatomy*, an interactive three-dimensional Atlas of human teeth. Development of the Atlas will be discussed and its various innovative features will be demonstrated. This material will be demonstrated for use as patient education for educators, presenters and clinical practitioners.

At conclusion, participants should be able to:

- Understand the advantages of this new viewing protocol.
- Understand the structure and various features of the Atlas.
- Understand how this Atlas can be used in lectures and clinical practice.
Clinical Applications of Laser Technology in Endodontics

**Room 20/21**

Moderator: G. Garechwan, D.D.S., M.S.
Aurora, Colo.

This presentation will provide an overview of the physics, structure, characteristics and principles of operation of lasers used in dentistry, as well as their interaction with soft and hard tissues of the oral cavity. Research studies with new laser technology for the efficient cleaning of the root canal system will be presented. Future clinical applications of lasers in endodontics will also be discussed.

At conclusion, participants should be able to:

- Understand the physics, structure, characteristics and principles of operation of lasers used in dentistry.
- Apply this knowledge to comprehend the interaction of lasers with the soft and hard tissues of the oral cavity.
- Be familiar with the possible current applications of laser technology in endodontics.

Persistent Endodontic Disease: Clinical Decision-Making

**Room 22/23**


See p. 17 for a complete session synopsis.

Endodontic Office Design and Renovation

**Room 24/25**

Paul G. Satchell, B.Arch., D.D.S., M.S., Houston, Texas

See p. 17 for a complete session synopsis.

Single Appointment Endodontics

**Ballroom A**

Moderator: James B. Roane, D.D.S., M.S.
Oklahoma City, Okla.

Drs. Cohen and Rivera will explore the advantages, disadvantages, risks and benefits of one-visit endodontic therapy for nonvital teeth using only literature from peer-reviewed journals to support any claims made by the speakers. This discussion will focus primarily on concentration of NaOCl smear layer, calcium hydroxide, temporary restorations, post-treatment pain and flare-ups.

At conclusion, participants should be able to:

- Reconsider case selection for one-visit endodontic therapy for nonvital teeth based on the most current literature.
- Reconsider the use of temporary restorations during any phase of endodontic therapy.
- Reconsider the use/abuse of analgesics and antibiotics for one-visit endodontic therapy.

Nonsurgical Endodontics

**Ballroom D**

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

See p. 18 for a complete session synopsis.

Oral Research Presentations VII, continued

Graduate Student Section

**Room 10**

Moderator: Darrell W. Zem, D.D.S., M.S.D.
Inver Grove Heights, Minn.

10:30 a.m.

Effects of Silicon on Human Dental Pulp Tissue

Gregory B. Ellis, D.D.S. (presenter)
Boston University

10:45 a.m.

Identification of Hard Tissue After Experimental Pulp Capping Using Dentin Sialoprotein as a Marker

Willis E. Andelin, D.D.S. (presenter)
S. Shohabking, K. Wright, M. Towardin, Luna Linda University

11 a.m.

The Toronto Study: Outcome of Initial Endodontic Treatment — Phase II

(This session will not be recorded.)
Marina Farkouk, D.D.S. (presenter)
S. Antinou, H. Lawrence, S. Friedman, University of Toronto
Testing the Limits of Endodontic Therapy

**Room 11**

*(This session will not be recorded.)*

All endodontists have taken cases that will never be forgotten. Either the patient, the difficulty, or the circumstances made this case memorable. Eleven practicing endodontists, with more than 300 collective years of experience, will share a memorable case that tested their knowledge, skills, discipline, courage, experience and, to no lesser degree, the healing potential of the patient. Participants will more than likely at some time be asked to respond to somewhat similar situations, though the chances of seeing any of these exact cases may be remote. The attendees should leave with the realization that their teeth for a lifetime.

At conclusion, participants should be able to:
- Understand the rationales for treating difficult cases.
- Understand the healing potential of patients who want to keep their teeth for a lifetime.
- Respond to similar cases in their practices with confidence.

**Additional Participants:**
- Jeff K. Barland, D.D.S.
- Joe H. Cope, D.D.S., M.S.D.
- Arnoldo Castellucci, D.D.S., M.D.
- Noah Chirvani, D.D.S.
- Jean-Yves Cochey, D.D.S.
- Lisa P. Gerwin, D.D.S.
- Joseph D. Maggio, D.D.S.
- Carl W. Newton, D.D.S., M.S.D.
- Denis E. Simon III, D.D.S., M.S.
- Martin Troup, B.D.S., D.M.D.

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**Collection: Bridging the Gap Between Case Acceptance and Payment**

**Room 13/14**

*Moderator: Marc T. Simpson, West Des Moines, Iowa*

Mr. Heppner is a business management advisor who has served the dental industry since 1983. Dental patients across the country are becoming more service-savvy. It is more important now than ever before for endodontists and staff to properly render a people-friendly atmosphere while operating their practices as businesses. An appropriate system that addresses payment in this way will help endodontists and their team members ensure payment for their services while maintaining their loyal relationships with referring doctors as well as satisfied patients.

At conclusion, participants should be able to:
- Provide the guidelines necessary for endodontists and their staff to construct an appropriate payment system for their unique practices.
- Integrate these concepts into their practices so that positive results occur in short order.
- Increase practice cash flow, reduce accounts receivable, and enable continued satisfaction from patients and referring doctors.

**Implementing Modern Technology Into Existing Offices**

**Room 15/16**


This presentation will provide a review of key terminology and technologies involved in the process of implementing technology solutions for the modern practice, with emphasis on computers, networks, internet, security and practice management. An outline for assessing needs, developing priorities, planning and budgeting will be presented. The second half of this session will detail a review of a typical technology implementation from budget through the start-up process, using tested products, practical tips and best practice solutions. Questions and answers will be encouraged and incorporated as an integral part of the presentation.

At conclusion, participants should be able to:
- Understand key technology terms and concepts.
- Apply terms and concepts in the preparation of a preliminary technology plan and budget for a modern practice.
- Evaluate technology solutions and make informed decisions to help maximize the return on capital.
Predictable Anesthesia for Patients With Irreversible Pulpitis

Room 18
Moderator: Paul D. Elander, D.D.S.
Birmingham, Ala.

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 the intraosseous systems described in the presentation, including the advantages and disadvantages of each.
- Define why anesthesia fails so often in the mandible.
- Develop specific procedures, using intraosseous technologies, for insuring profound anesthesia for patients presenting with irreversible pulpitis.

An Introduction to PowerPoint I

Room 19

PowerPoint is an extremely powerful software program that enables the user to design slides and computer presentations. The objective of this presentation is to introduce the participant to PowerPoint and to illustrate its creative possibilities.

At conclusion, participants should be able to:
- Understand the anatomy of PowerPoint.
- Understand how to navigate within PowerPoint.
- Understand the basics of editing pictures in Photoshop.

Evidence-Based Evaluation of Current Endodontic Technology

Room 20/21
Moderator: Cody R. Rauschenberger, D.D.S., M.S.
Elgin, Ill.

Evidence-based practice (EBP) has become the new paradigm in all fields of medicine. EBP can be defined as the explicit and judicious use of the current and best evidence in conjunction with clinical experience, which may not always be easy to accomplish. This presentation will utilize a systematic evidence-based approach to evaluate the current endodontic technology (instruments and materials) and its clinical impact on our specialty. A combination of literature review and a series of clinical cases for each category with one to two years follow-up will be presented.

At conclusion, participants should be able to:
- Understand the advantages and limitations of evidence-based practice and be able to apply it, utilizing the best available evidence in answering a clinical question.
- Realize the benefits of the dental operating microscope and materials during the different stages of endodontic treatment (access, locating canals, retrieving metallic objects, perforation repairs and obturation, and management of immature necrotic teeth with wide-open apexes).
- Optimize preparation efficiency by understanding the new concepts in rotary instruments design and their application in cleaning and shaping curved canals.

Endodontic Microbiology: Debugging the Root Canal

Room 22/23
Moderator: J. Craig Baumgartner, D.D.S., M.S., Ph.D.
Portland, Ore.

This presentation will center on the evolution of knowledge concerning endodontic pathogens and how that knowledge has influenced modern methods of performing root canal therapy. Topics to be covered will include a review of endodontic microbiology and a differentiation between microbes involved in a primary endodontic infection versus those found in treatment resistant infections, methods of canal disinfection and the effects of proper canal disinfection on long-term prognosis.

At conclusion, participants should be able to:
- Differentiate between pathogens in primary and treatment resistant endodontic infections.
- Recognize the importance of asepsis in endodontic procedures and the treatment differences between vital and necrotic cases.
• Adopt a predictable method for disinfection of the root canal using the most modern rotary and hand instrumentation and antimicrobial medicaments.

**That's Not a Canker Sore, Doctor!**

**Room 24/25**

**Moderator: T.L. Green, D.M.D.**

Panama City, Fla.

Every endodontist encounters ulcerative mucosal lesions in patients that they treat. Often these conditions are not diagnosed or managed by either their dentists or physicians. This presentation will illustrate common oral ulcerative diseases, describe their diagnostic features, discuss the potential need for biopsy and referral, and recommend treatment modalities that can be provided to the affected patients and their referring dentists from the perspective of a practicing endodontist.

At conclusion, participants should be able to:

• Identify common oral ulcerative diseases and their diagnostic features.
• Recognize lesions where diagnosis may require biopsy and/or referral.
• Recommend appropriate treatment for these diseases to patients and referring dentists.

**Differential Diagnosis of Pulpal Pain**

**Ballroom A**

**Moderator: Alan S. Lin, D.D.S., Ph.D.**

Lake Elmo, Minn.

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:

• Understand how nonodontogenic pain occurs, and how to use this knowledge to interpret diagnostic tests.
• Describe the most common forms of nonodontogenic pain.
• Apply this knowledge to establish differential diagnoses of pain patients.

**The Complete Electronic Endodontic Office**

**Ballroom D**

**Moderator: Sheldon R. Mann, D.D.S.**

Sarasota, Fla.

This lecture will investigate one implementation of the complete electronic endodontic office from patient’s first contact through case completion. Learn which items must be issued to a patient on paper. See how multimedia presentations can be used for patient education and staff training. Several of the technologies used to put the electronic office into clinical operation will be explored. Implementation and total cost of ownership with its impact on production plus office expenses will be investigated.

At conclusion, participants should be able to:

• Understand what is involved to implement the complete electronic endodontic office.
• Know the value and convenience of having information securely accessible to the practitioner, patient and referring doctor 24 hours a day, 7 days a week.
• Realize the financial impact of a complete electronic endodontic office in operation.

**Oral Research Presentations VIII**

**Graduate Student Section**

**Room 10**

**Moderator: B. Ellen Byne, D.D.S., Ph.D.**

Middletown, Va.

1:30 p.m.

Assessment of Bacteriological Sampling and Quantification Methods in Inoculated Root Canals In Vitro

(This session will not be recorded.)

Roy E. Dacher, D.D.S. (Presenter)
G.M. Vahed, B. Bisgnami, C. Kelkarini, M. Legner, E.D. Filley, S. Friedman, University of Toronto and University of Balamino

1:45 p.m.

Effects of 0.12% Chlorhexidine Gluconate on the Antimicrobial Activity of White ProRoot MTA

Terry E. Stone, D.D.S. (Presenter)
C.M. Sedgley, B.W. Stone, J.C. Fenno, University of Michigan and West Virginia University

2 p.m.

Antibacterial Efficacy of Calcium Hydroxide, Iodine Potassium Iodide, Betadine and Betadine Scrub

Nathan E. Baker, D.M.D. (Presenter)
F. Liehr, T.B. Bostom, A. Joyce, U.S. Army Dental Activity, Ft. Gordon and Eisenhower Army Medical Center, Ft. Gordon
Oral Research Presentations VIII, continued

2:15 p.m.
Inhibition of Enterococcus Faecalis Growth at Alkaline pH's
Christopher P. McGuirk, D.M.D. (presenter)
University of Alabama

2:30 p.m.
Antibacterial Efficacy of Calcium Hydroxide and Chlorhexidine Gluconate Irrigants at 37°C and 46°C
Chris Emmok, D.D.S. (presenter)
E.R. Lienih, T.B. Bostick, A.P. Joyce, U.S. Army Dental Activity, Ft. Gordon and Eisenhower Army Medical Center, Ft. Gordon

2:45 p.m.
Oral Infection With Porphyromonas Gingivalis Accelerates Atherosclerotic Plaque Accumulation in Mice
Charles H. Hong, D.M.D. (presenter)
E.G. Gordon, J.S. Lee, C.A. Genco, Boston University

➤ 3:30 – 5 p.m.

Diagnosing Endo Lesions With CT Scans and Getting More Efficient in Your Treatment

Room 11
Moderator: David J. Hochmann, D.M.D., M.S.
Aurora, Colo.

Because of the complexity of endodontic treatment, the numerous aspects of endodontic pathologies and the relationships with anatomic structures, a modern imaging technique, the CT Scan, allows us to modulate our clinical approach and to choose a rational treatment. In special clinical situations, the CT Scan is very efficient and gives us more information than traditional X-rays and makes it very easy to estimate the relationship between the teeth and the disease, the bone defect, the size of the lesion and its penetration inside anatomic structures like the sinus or contacts with dental nerves or arterial vessels. The use of a CT Scan is the best way to anticipate difficulties and risks in surgery cases.

At conclusion, participants should be able to:

• Describe the rationale for the preferential use of electronic canal length measurement based on considerations of root-end anatomy. This session will also describe the basic principles of operation and the relative advantages and disadvantages of the “third-generation” of this technology, as well as compare and contrast the various currently available third-generation devices. This presentation will describe the major sources of error that undermine confidence in electronic canal length measurement, and the two most effective techniques for minimizing error and maximizing reliability.

At conclusion, participants should be able to:

• Describe the rationale for electronic canal length measurement, the basic principles of operation, and the major sources of error, their recognition and management.
• Begin to use electronic canal length measurement safely.
• Continue using this technology with increased understanding and confidence.

• Understand the particular use of a CT Scan in sinus pathologies with an endodontic origin and describe when a surgical approach should be performed according to the latest clinical criteria.

Collection: Bridging the Gap Between Case Acceptance and Payment

Room 13/14
Fred Heppner, Phoenix, Ariz.
See p. 21 for a complete session synopsis.

Implementing Modern Technology Into Existing Offices

Room 15/16
*Steven M. Sharphol, M.B.A., Phoenix, Ariz.
See p. 21 for a complete session synopsis.

Electronic Determination of Endodontic Treatment Length

Room 18
Moderator: William S. Hopkins, D.D.S.
Bowling Green, Ky.

This presentation will discuss the rationale for the preferential use of electronic canal length measurement based on considerations of root-end anatomy. This session will also describe the basic principles of operation and the relative advantages and disadvantages of the “third-generation” of this technology, as well as compare and contrast the various currently available third-generation devices. This presentation will describe the major sources of error that undermine confidence in electronic canal length measurement, and the two most effective techniques for minimizing error and maximizing reliability.

At conclusion, participants should be able to:

• Describe the rationale for electronic canal length measurement, the basic principles of operation, and the major sources of error, their recognition and management.
• Begin to use electronic canal length measurement safely.
• Continue using this technology with increased understanding and confidence.
An Introduction to PowerPoint II: A Hands-On Session

Room 19
Building upon the skills learned in PowerPoint I, participants will have the opportunity to create a short presentation using their own laptops. The participants will be guided simultaneously in both Macintosh and PC formats. Those not registered to participate in the laptop format will be able to view the session as a visual demonstration.

At conclusion, participants should be able to:

- Demonstrate the ability to create a presentation using PowerPoint.
- Demonstrate the ability to edit color images and radiographs in Photoshop.
- Demonstrate the ability to import files from Photoshop into PowerPoint.

The hands-on portion of this session required advanced registration. Attendees who did not pre-register may attend as observers.

Vertical Root Fractures in Endodontically Treated Teeth—A Diagnostic Dilemma?

Room 20/21
Moderators: Maureen L. Swift, D.D.S., M.S.D.
Bellevue, Wash.

This presentation will review the updated information on vertical root fractures in endodontically treated teeth—a frustrating phenomenon for the patient and the clinician. The session will present recent research studies about the clinical radiographic diagnosis of vertical root fractures. The pattern of bone loss in such cases will be described, and the resulting need for correct and quick clinical diagnosis will be emphasized.

At conclusion, participants should be able to:

- Identify the susceptible teeth and roots, and recognize the typical signs and symptoms.
- Describe the common radiographic features of such cases.
- Recognize the major causes of fractures and possible ways of preventing them.

Endodontic Microbiology: Debugging the Root Canal

Room 22/23
Linda C. Levin, D.D.S., Ph.D., Chapel Hill, N.C.
See p. 22 for a complete session synopsis.

Dilemmas With Cracks and Pulpitis

Room 24/25
Moderators: W. Craig Noblett, D.D.S., M.S.
Berkeley, Calif.
Paul A. Abbott, B.D.S., M.D.S.
Melbourne, Australia

The so-called “cracked tooth syndrome” has created confusion about cracks and their treatment. Cracks usually cause pain, because they are pathways of entry for bacteria that cause pulpitis. Therefore, cracks should be considered an etiological factor rather than a “syndrome.” Management should be based on the diagnosis of the pulp status and its etiology. If the correct diagnosis is made early enough, then cracks can be managed simply and without endodontic treatment.

At conclusion, participants should be able to:

- Understand the causes and dynamics of pulp disease and apply these concepts to the diagnosis of the effects of cracks.
- Define infractions, cracks and fractures, and distinguish between reversible and irreversible pulpitis in cracked teeth.
- Conservatively manage teeth with cracks that are causing reversible pulpitis.

Mechanisms of Anesthetic Failure

Ballroom A
Moderators: William G. Schioler, D.D.S., M.S.
San Antonio, Texas
Karl Gasser, D.D.S.
San Antonio, Texas

Many patients fear endodontic procedures due to a concern about pain. Although pain treatment is well managed in many endodontic cases, there exists a group of patients who do not receive adequate local anesthesia. This presentation reviews the mechanisms of local anesthetic failure and focuses on available evidence for developing effective and efficient approaches in local anesthesia.

At conclusion, participants should be able to:

- Understand the mechanisms of action of local anesthetics.
- Be familiar with the credible hypotheses for local anesthetic failures.
- Be aware of various therapeutic approaches for managing local anesthetic failures.
The Effect of Pulpal and Periapical Disease on Systemic Health

Ballroom D
Moderator: Leif K. Bakland, D.D.S.
Loma Linda, Calif.

This presentation will outline the pathogenesis of pulpal and periradicular lesions. Furthermore, concerns regarding adverse effects of pulpal and periradicular diseases on the systemic health and the current concepts with regards to this topic will be discussed. The presentation will also discuss new techniques and data in the area of microbial dissemination in living organisms.

At conclusion, participants should be able to:
• Have a better understanding of the pathogenesis of pulpal and periradicular lesions.
• Have a better understanding of the history of focal infection, as well as be familiar with the current beliefs in the relationship between oral diseases and systemic health.
• Be familiar with new techniques that have been developed to study the relationship between oral diseases and systemic health.

Oral Research Presentations IX

Graduate Student Section

Room 10
Moderator: Andre N. Michel, D.D.S., M.S.D.
Beachwood, Ohio

3:30 p.m.
Influence of an Intracanal Glass Ionomer Barrier on Coronal Microleakage in Post-Prepared Teeth
Joseph C. Mavec, D.D.S. (presenter)
G.E. Minar, R.E. Blundell, S.B. McClanahan, J.D. Johnson, Naval Postgraduate Dental School, University of Maryland and Naval Medical Center, Portsmouth

3:45 p.m.
Influence of Instrument Size on Debridement
Nara Usman, D.D.S. (presenter)
J.C. Baungartner, J.C. Marshall, Oregon Health & Science University

4 p.m.
Impact of Viewing Conditions on the Interpretation of Digital Endodontic Working Length Images
Leman C. Ortun, D.D.S. (presenter)
Indiana University

4:15 p.m.
In Vitro Quantitative Assessment of Apical Third Root Canal Fillings With Three Different Obturation Techniques
Sandro N. de Villeviade-Correia, D.M.D. (presenter)
E. Kim, M.K. Iqbal, S. Kim, University of Pennsylvania

4:30 p.m.
Success of Pulpotomy Sealed and Restored With Zinc Oxide Eugenol or Zinc Oxide Eugenol Base and Glass Ionomer Core as a Mid-Term Relief Over One Year
Emmanuel O. Delano, D.D.S. (presenter)
R. McDougle, D. Caplan, A. Segerdsson, M. Trophy, University of North Carolina
Successful canal preparations. The location and description of various problems encountered in accessing the terminal apical area during endodontic treatments by describing current concepts and the solutions available to practitioners to resolve access problems and ensure successful canal preparations. The location and description of various types of interference: anatomical and physiopathological, and methods and means for removing interference will be discussed.

At conclusion, participants should be able to:

- Identify the various types of interference that complicate endodontic treatments and remove them.
- Evaluate the associated risks.

Periodontal Bone Regeneration Techniques in Endodontic Microsurgery

Room 11
Moderator: Heriberto M. Salgueiro, D.M.D., P.A.
Miami, Fl.

This session will provide a step-by-step review of the different phases of the endodontic microsurgery starting with the design of the flaps. During this procedure we may encounter bone-destroying processes of purely endodontic origin located in the periapical zone or endo-periodontal processes in which the bone destruction has reached the dentogingival union. In this last case, the simple flap repositioning guarantees neither the regeneration of destroyed tissues, nor the sealing of the periodontal communication between the parapical area and the gingival sulcus, darkening the prognosis of this tooth. Periodontal guided bone regeneration techniques should be applied in the particular scenario in order to achieve a full and stable long-term regeneration of the previously destroyed tissues, and thus, close the existing endo-periodontal communication, improving the long term prognosis of this tooth.

At conclusion, participants should be able to:

- Diagnose and clearly differentiate which periapical processes have a purely endodontic origin and which ones also have periodontal involvement.

- Make a proper flap design from the viewpoint of periodontal regeneration techniques.
- Manage reabsorbable, non-reabsorbable membranes and bone grafts in order to fully regenerate the previously lost attachment apparatus.

Preserving the Integrity of the Human Dental Arch

Room 12
Moderator: Arthur W. Harris, D.D.S.
Montpelier, Vt.

An interdisciplinary approach of endodontics, periodontics, orthodontics and oral surgery, together with an intentional extrusion procedure, are utilized to resolve clinical problems. Caries extending between gingival or crown fracture and periodontal defect eradication are some perplexities that confront the clinician. Intentional extrusion will illustrate with a series of evidences; before and after treatment; how these problems were resolved. This procedure is well-documented with over 200 cases that have withstood the test of time.

At conclusion, participants should be able to:

- Understand the objectives of intentional extrusion by reviewing diagnoses, case selections, procedures and long-term follow-ups.
- Realize the importance of the interdisciplinary approach to comprehensive dentistry.
- Apply this knowledge to provide biologically-oriented, bona fide therapy for patients.

Motivate and Retain Staff

Room 13/14
Moderator: Michele M. Whitley
Lynn, Mass.

Staff motivation and retention is a challenge for both doctors and team members. This session will provide participants with the information necessary to understand what motivates people. It will give tangible action plans for the development of motivational systems in the practice, and it will teach participants how to celebrate practice successes.

At conclusion, participants should be able to:

- Understand the fundamental principles of intrinsic and extrinsic motivation.
- Understand individual motivators and how to create opportunities for their use in the practice.
- Develop reward and recognition systems.
Radiography Basics: Emphasis on Endodontics

Room 15/16
Moderator: Lee Anne Keough, D.M.D.
Ocala, Fla.

This presentation brings the fundamentals of image geometry to practical application with the goal of radiographic excellence and an emphasis on endodontic exposures. Topics covered include application of image geometry, use of a variety of film holding devices, recognizing radiographic errors and explaining appropriate corrective measures.

At conclusion, participants should be able to:

- Understand image geometry in exposing intraoral radiographs.
- Apply the fundamentals of image geometry in exposing endodontic intraoral radiographs with a variety of film holders.
- Evaluate radiographs for errors and explain corrective technique measures.

Creating a Digital Document: From Data to the Final Product

Room 18
Moderator: Gayle Overholt, D.D.S., M.S.
Sarasota, Fla.

This presentation will take you through the creation of a digitally-generated document by demonstration. Starting by importing images from various sources, the images will then be manipulated and labeled, and a PowerPoint and an MS Word template will be created. A final document for printing or projection will be formulated using the newly manipulated images. Highlights will be the creation of customized templates and the artistic side of creating presentations.

At conclusion, participants should be able to:

- Define digital documentation.
- Prepare images for documentation.
- Create a document from template to finished report.

3-D Root Canal Anatomy

Room 19
Moderator: Ove A. Peters, D.M.D.
San Francisco, Calif.

(This session will not be recorded.)

Successful endodontics requires a thorough understanding of the spatial root canal morphology. Different methods depicting the 3-D anatomy are either not completely accurate or partially destroy the teeth, which are not reusable afterwards for further investigation. Microcomputed tomography provides 3-D, non-destructive study of the intricacies of the root canal systems. In the last 50 years, numerous materials, techniques and technologies have been introduced in endodontic treatment. Based on 3-D anatomical reality, and with these innovations, we can achieve predictably successful endodontics.

At conclusion, participants should be able to:

- Clearly understand the real complexity of the root canal system three-dimensionally using micro CT.
- Respect the intricacies of the apices.
- Evaluate the modern techniques and technologies used in endodontic treatment.

Effect of Adhesives and Treatments on the Dental Pulp

Room 20/21
Moderator: Richard E. Walton, D.M.D., M.S.
Iowa City, Iowa

The special nature of the dental pulp will be reviewed with emphasis on the pulpal response to various restorative systems. Topics will include the effect of adhesive systems and other permanent restorative materials on the dental pulp and the effects of thermal and mechanical irritants. New tooth preparatory systems, such as lasers and air abrasion, and their relationship to pulp will also be discussed.

At conclusion, participants should be able to:

- Understand the special nature of the dental pulp.
- Understand the effect of restorative dental procedures and materials on the pulp.
- Compare the effects of two new tooth preparatory methods on the pulp.
Endodontic Risk Prevention: A Legal “Primer” for the Practitioner

Room 22/23
Moderator: Thomas L. Peix, D.D.S., M.S.
Oklahoma City, Okla.

(This session will not be recorded.)

Endodontists function in a litigious society. Critical relations between the specialist, the referrer and/or the patient can be easily marred, potentially leading to litigation if general principles of risk management are not followed. The purpose of this interactive presentation will be to highlight contemporary risk prevention practices with emphasis on communication, documentation, informed consent and litigation control. Controversial case hypotheticals will be used to illustrate principles of risk prevention.

At conclusion, participants should be able to:
- Define “professional negligence” and its role in endodontics.
- Understand how appropriate communication skills can reduce risk.
- Discuss principles of record keeping and informed consent.
- Apply risk management theory in clinical practice to prevent litigation.

Cleaning and Shaping to Perfection? The Impact of Nickel-Titanium on Root Canal Preparation

Room 24/25
Moderator: Mary T. Petette, D.D.S.
Asheville, N.C.

Practitioners will learn about, from a scientific perspective, the need to incorporate essential biological principles during cleaning and shaping, irrespective of the instrument system being used. Current terminology and claims by manufacturers will be reviewed and will include a presentation of merits and limitations of major systems. A review of the objectives of canal preparation and the extent to which these are achieved will enable the participants to recognize and limit the extent of deficiencies.

At conclusion, participants should be able to:
- Understand biological aspects of canal preparation and methods to achieve these principles.
- Determine the positive and negative influences of nickel-titanium instruments related to their design and protocol of use.
- Present revised cleaning and shaping objectives for the use of nickel-titanium instruments based on scientific literature.
Poster Research Presentations, continued

PR 48
A Comparison of the Canal Centering Ability of K2 and ProFile Nickel-Titanium Rotary Files
*Mr. Jesus Grauengoldo and Neville J. McDonald, D.D.S., M.S., University of Michigan

PR 49
An In Vitro Comparison of the Efficacy of the Pro Taper Engine Driven vs. Stainless Steel K-Files in Canal Debridement
Seyyedeh A. Ghadimi, D.D.S., Tehran, Iran

PR 50
Prevalence of Odontogenic Sinus Tracts in Patients Referred for Endodontic Therapy

PR 51
Diagnosis and Treatment of Fin and Isthmus Without Apical Surgery
Shogetsu T. Ikai, D.D.S., Osaka, Japan and Mizutani Osami, D.D.S., M.S., Tokyo, Japan

PR 52
Root Canal Cleanliness After Preparation With Three Rotary Instruments With Different Cutting Blade Designs: A Comparative SEM Study
In-Soo Jeon, D.D.S., Seoul, Korea

PR 53
Spectroscopic Imaging and Microanalysis of Root Dentin: A Preliminary Study
Dhyun Joo, B.D.S., New York, N.Y.

PR 54
Epidemiology of Cracked Teeth in Korean Population: A Clinical Survey of 154 Cases
Euisung Kim, D.D.S., M.S.D., Seoul, Korea

PR 55
Effects of Enterococcus Faecalis Sonicated Extract on IL-2, IL-4, and TGF-β1 Expression From Human Lymphocyte
Dhyun Sh Kim, D.D.S., Seoul, Korea

PR 56
Cytotoxicity of Calcium Phosphate Root Canal Sealers

PR 57
Tissue Reactions to Implanted Intracanal Medicaments in Rats
Minh Kim, D.D.S., Seoul, Korea

PR 58
Influence of Plugger Penetration Depth on the Apical Extrusion of Root Canal Sealer in Continuous Wave Condensation Technique
Song-Kyo Kim, D.D.S., M.S.D., Ph.D., Daegu, Korea

PR 59
Comparison of Two Instrumentation Techniques Performed in a Dental School Setting
Donald J. Klee, D.M.D., Denver, Colo.

PR 60
Torque and Stress Applied to the File During Nickel-Titanium Rotary Preparation
Chiharu Kado, D.D.S., Ph.D., Tokyo, Japan

PR 61
Eubacterium spp. and Streptococcus spp. in Endodontic Infections

PR 62
In Vitro Comparison of Working Length Determination Between Roots With and Without Periapical Radiolucencies
*Mr. Hamed Latif and Yi-Tai Jou, D.D.S., University of Pennsylvania

PR 63
Sequential Evaluation of Stainless Steel Hand File and Nickel-Titanium Rotary Instrument Using Micro-Computed Tomography

PR 64
In Vitro Analysis of the Wear of Dentine Walls in Mesial Canals of Inferior Molars After Cervical Enlargement With Rotary Instruments: Stainless Steel Drills and Nickel Titanium Orifice Openers
Carlos A.F. Morello, D.D.S., Campinas, Brazil

PR 65
In Vivo Evaluation of Neosono Ultima EZ Apex Locator
Mohammad H. Nemehzar, D.D.S., M.Sc., Tehran, Iran

PR 66
Early Detection in Healing of Periapical Inflammatory Lesions by Means of Digital Subtraction Radiography and Compared to Traditional Radiography: A Pilot Study

PR 67
Comparison of Intracanal Sealer Distribution Between Lateral Condensation and Continuous Wave Condensation Methods
*Mr. Brandon K. Peterson, University of Iowa and Linh A. Balasubramaniam, D.D.S., Menlo Park, Calif.
Retreatment in Endodontics: The Initial Steps

(This session will not be recorded.)

Room 10
Moderator: B. Harvey Weiner, D.D.S.
Fl. Lauderdale, Fla.

Retreatment has become an unavoidable part of the endodontic practice and is considered the most complicated aspect of root canal therapy. Although the objectives of the endodontic retreatment are the same as those in first-time endodontic treatment, the reasons and the rationale for retreatment may be different. This lecture will help the practitioner to identify the numerous causes of failure of a previous treatment, and some techniques of retreatment will be described.

At conclusion, participants should be able to:

• Correctly diagnose the cause of an endodontic failure.
• Anticipate and overcome the possible problems that may arise during the procedure of the root canal therapy.
• Establish a correct strategy to achieve a good prognosis well before the beginning of the endodontic retreatment.

Ultrasound Real-Time Imaging in Endodontic Diagnosis

Room 11
Moderator: John C. Minic, D.D.S.
Santa Barbara, Calif.

This presentation will review the basic principles of echography and will show the application of this examination to the field of endodontics. Topics to be addressed and discussed will include the technique for using echography in endodontics; its advantages versus conventional radiographic techniques in the diagnosis of bone lesions of endodontic origin; its application in the differential diagnosis between different endodontic lesions (fluid vs. solid lesions) and between different lesions of the jaws.

At conclusion, participants should be able to:

• Understand the basic principles of echography.
• Understand the application of this examination to endodontic diagnosis as an alternative and/or as a complement to regular radiography.
• Discuss the possible advantages and disadvantages of this technique comparing it with conventional radiography.
Mandibular Block Failure in Endodontic Therapy

**Room 12**

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

The attainment of clinically acceptable anesthesia is often problematic in the treatment of symptomatic pulpitis and symptomatic apical periodontitis, especially in mandibular teeth. This presentation will identify the extent of this problem, the organic components involved with this condition, and the possible causes of mandibular block failures. Hence, the main objectives of this presentation are to elucidate why the mandibular block fails, and how to overcome this frustrating and recurrent problem. Several techniques will be presented to overcome these anesthesia difficulties, mainly during emergency treatment of endodontic cases.

At conclusion, participants should be able to:

- Learn a new anesthesia technique when facing a mandibular block failure in the office.
- Understand and apply the techniques clinically, as endodontists, predoctoral and advanced specialty education in endodontics students, or as any dentist treating emergency cases.
- Learn updated and correct mandibular block techniques.

Motivate and Retain Staff

**Room 13/14**

Deborah Odell, M.B.A., Santa Rosa, Calif.

See p. 26 for a complete session synopsis.

Radiography Basics: Emphasis on Endodontics

**Room 15/16**


See p. 27 for a complete session synopsis.

Endodontic Education at the Zurich Dental School—Trials and Tribulations

**Room 18**

**Moderator:** Charles J. Cunningham, D.D.S.
Gainesville, Fla.

Participants will be taken on a roller coaster ride describing the vicissitudes of endodontic education at the Zurich Dental School from 1990 until now. Learn about problems in endodontic education in Europe, generally and specifically in Zurich. Highlights include: teaching a rotary technique for freshmen in lab and clinical courses; establishing the first Swiss school to teach endodontics as a specialty; and briefly describing results of some recent research projects.

At conclusion, participants should be able to:

- Describe recent developments in endodontic education at the Zurich University Dental School including the use of a rotary technique.
- Describe how local nonendodontic dental educators suggest that root canal therapy should be taught at under- and postgraduate levels.
- Discuss pros and cons of the lab and clinical cases presented.

3-D Root Canal Anatomy

**Room 19**

Donald Chu Yu, D.M.D., M.Sc.D., Edmonton, Alberta, Canada

See p. 27 for a complete session synopsis.
Root-End Surgery—A Clinical and Literature Review

Room 20/21
Moderator: Steven Roberts, D.D.S.
Evans, Ga.

The practice of root-end surgery has undergone dramatic changes over the past decade. As a result of the awareness of the moderate success rates associated with the traditional approach, a new philosophy and armamentarium has evolved. There are now a number of recently published studies concerning the changes in root-end surgical procedures. This presentation will examine the literature over this period and relate it to the current clinical practice of surgical endodontics.

At conclusion, participants should be able to:
• Confirm their knowledge of the indications for surgical retreatment, the current clinical techniques and armamentarium.
• Be aware of the recent literature concerning root-end surgery techniques and the conclusions drawn.
• Apply this knowledge to their own clinical practices.

Differential Diagnosis of the Nonodontogenic Toothache

Room 22/23
Moderator: Ty Erickson, D.D.S.
West Des Moines, Iowa

This presentation will describe the important aspects in taking a history from pain patients and outline a systematic approach to taking histories. The clinical characteristics of neurologic, vascular and other types of facial pain will be highlighted.

At conclusion, participants should be able to:
• Better understand how to take a pain history.
• Recognize “red flags” for the nonodontogenic toothache.
• Formulate a differential diagnosis for nonodontogenic pain.

Cleaning and Shaping to Perfection? The Impact of Nickel-Titanium on Root Canal Preparation

Room 24/25
Mansoa Garala, B.D.S., Plantation, Fla.
Senor Kritler, D.D.S., Ft. Lauderdale, Fla.

See p. 28 for a complete session synopsis.

Surgical Management of the Maxillary Sinus and the Mandibular Nerve During an Apical Surgery

Room 12
Moderator: Rita Echevarria, D.D.S.
Miami, Fla.

The prognosis of endodontic surgery can be affected by the presence of serious anatomical elements such as the maxillary sinus and the mandibular nerve. In such cases, the surgeon will be facing two situations: whether the apex is in close contact with the sinus membrane or the mandibular nerve, or the apex is in the sinus or beyond the nerve. Thus, a new bone trephination technique will be described step-by-step in this presentation, for bone trephination is the most important and delicate stage allowing us to locate the apex and avoid postoperative problems.

At conclusion, participants should be able to:
• Learn how to cut the bone and locate the apex in such situations.
• Learn how to manipulate the mandibular nerve.
• Increase the rate of success of the surgical act and to cure formerly incurable teeth.
Why It’s Important to Your Practice to Get Involved With Dental Organizations

Room 10
Moderator: Edwin S. Meinman, D.D.S.
Providence, R.I.

Learn from the masters about dental organizations’ influence on your livelihood. Endodontists who were active in the American Dental Association won the specialty’s recertification in 1989 that allows us to practice today as endodontists. A strong voice in the ADA House of Delegates protects endodontic interests. Representation on the ADA Council on Dental Benefit Programs assures a voice in determining procedure codes which affect your bottom line. The endodontic commissioner on the Commission on Dental Accreditation speaks for all postgraduate students and educators when new or revised accreditation standards are presented for a vote. Your leadership can benefit all endodontists, the public and our patients.

At conclusion, participants should be able to:
• Understand the relevance of the ADA in the universe of dentistry.
• Understand why being involved in dental organizations can affect your bottom line.
• Describe the process to become a leader.

Additional Participants:
Samuel O. Dorn, D.D.S.
Joel L. Dunsy, D.D.S.
Howard B. Fine, D.M.D.
Stuart B. Fontaine, D.D.S., M.S.C.
Eric J. Houlihan, D.D.S.
William D. Powell, D.D.S., M.S.
Bruce H. Schrier, D.D.S., M.Sc.D., J.D.
Charles L. Steffel, D.D.S., M.S.D.
Robert A. Uchin, D.D.S.

HIPAA Overview for Dentists

Room 13/14
Moderator: Randolph D. Rush, D.D.S.
Santa Rosa, Calif.

(This session will not be recorded.)

Dr. Lapp is the Director of Dental Informatics at the American Dental Association where he has coordinated HIPAA activities since 1998. The Health Insurance Portability and Accountability Act of 1996 (HIPAA) has led to sweeping new federal requirements for the management of administrative and patient information in health care organizations. This presentation will help take the mystery out of HIPAA compliance, debunk some of the myths and demonstrate some of the benefits that can be achieved in your dental practice. The American Dental Association has been instrumental in developing and maintaining the electronic transactions adopted by HIPAA; was named in the enabling legislation as a consultant to the Secretary on HIPAA implementation; is a designated code source for The Code on Dental Practices and Nomenclature; and has represented the interests of organized dentistry and other small providers in achieving reasonable and scaleable HIPAA requirements.

At conclusion, participants should be able to:
• Understand the requirements for HIPAA implementation.
• Understand the achievable steps that can help ease compliance for dentists.
• Understand the real world implications of HIPAA requirements and opportunities.

Biologic Basis for Successful Endodontic Treatment

Room 15/16
Moderator: Billie G. Jenson, D.D.S., Ph.D.
New Orleans, La.

A dentist must have a solid biologic basis for all treatments that he/she performs. All new techniques or technologies must be assessed in the context of their ability to achieve the biologic objective to ensure maximal success. The biologic requirements for predictably successful endodontics will be presented. In the context of these requirements the advisability of one-step endodontic procedures will be discussed for different diagnostic categories with the use of modern instruments and techniques.

At conclusion, participants should be able to:
• Know the biologic requirements for endodontic success.
• Differentiate between a vital and nonvital tooth in terms of meeting these requirements.
• Know to what extent the newest technologies in endodontics assist in attaining these biologic goals.

Three-Dimensional Room
Temperature Obturation:
The Optimizing Factors

Room 18
Moderator: William R. Watson Jr., D.D.S., M.S.
Wichita, Kan.

This lecture will illustrate the required factors for optimal obturation and critically review current obturation techniques. Participants will learn how to obturate efficiently with a single gutta-percha point at room temperature, seal lateral canals without excessive force or heat, and eliminate apical cement puffs in vital cases.

At conclusion, participants should be able to:
• Understand the relationship between canal shaping and obturation.
• Apply this knowledge to obturate predictably in a time-efficient and cost-effective manner in the complete spectrum of easy to complicated cases.
• Compare and contrast the efficacy of current obturation techniques.

New Nickel-Titanium
Engine-Driven Instruments:
Do They Always Match
Root Canal Anatomy?

Room 19
Moderator: Kenneth Namendorf, D.D.S.
Boca Raton, Fla.

The aim of this presentation is to take into account some of the nickel-titanium instrumentation techniques and compare them in a clinical perspective. A description of their clinical uses as reported by the manufacturers will be discussed. Experimental evidences on different shaping sequences will be extensively discussed. A clear evaluation of some clinical situations, related to the anatomy of root canal systems, particularly focused on molar and premolar teeth, will be performed.

At conclusion, participants should be able to:
• Understand the criteria and factors for long-term clinical success.
• Understand the biologic reasons for endodontic failures.
• Understand the role of bacteria, endotoxin, spirochetes, fungi and viruses in endodontic disease.
• Perform differential diagnosis of periapical lesions of nonendodontic origin.

The Root Canal, the Apex
and Beyond

Room 20/21
Moderator: A. Edy Skidmore, D.D.S.
Morgantown, W. Va.

(This session will not be recorded.)

Successful endodontic therapy depends primarily upon correct diagnosis, evidence-based decision for specific treatment modalities and careful performance of the clinical procedures. However, there are times that, despite endodontic procedures, healing does not occur. This presentation will delve into the reasons for nonhealing of some periapical lesions and provide biological evidence for the differential diagnosis of endodontic and nonendodontic disease.

At conclusion, participants should be able to:
• Understand the criteria and factors for long-term clinical success.
• Understand the biologic reasons for endodontic failures.
• Understand the role of bacteria, endotoxin, spirochetes, fungi and viruses in endodontic disease.
• Perform differential diagnosis of periapical lesions of nonendodontic origin.
In and Out: Transitions to Endodontic Practice

Room 22/23
Moderator: Denis E. Simon III, D.D.S., M.S.
Baton Rouge, La.

This presentation will explore the different endodontic practice agreements and contractual arrangements for bringing in an associate, achieving partnership, planning for retirement, and providing for disability or death. The recruitment and retention of associates will also be reviewed with interaction from the participants.

At conclusion, participants should be able to:
• Understand the different arrangements for associateship, partnership and retirement.
• Compare and contrast various agreements providing for disability or death.
• Apply this knowledge toward negotiation for an endodontic practice opportunity.

Fiber Optic and Rod-Lens Endoscope Visualization in Endodontics

Room 24/25
Moderator: M. Lamar Hicks, D.D.S., M.S.
Jenkintown, Penn.

The technical advances over the last decade in the field of endodontics have been significant. One of these advancements has been the evolution of fiber optic and rod-lens endoscope visualization for conventional and surgical endodontics. This session will discuss the integration of a new state-of-the-art fiber optic and endoscope visual system into everyday endodontic practice.

At conclusion, participants should be able to:
• Understand the difference between the old visualization technology vs. new visualization technology.
• Understand how fiber optic and rod-lens orascope visualization is best integrated into endodontic treatment procedures.
• Understand how to integrate visualization and instrumentation to perform endodontic treatment.
The AAE exhibit hall offers a variety of displays for your clinical, personal and business needs. The balanced combination of exhibits allows you to peruse the latest in surgical products and procedures. You’ll also learn about services and technologies that will help you achieve peak performance and gain a competitive edge as the specialty moves into the next millennium of health care. Take the time to talk with representatives from major dental and medical suppliers, and take advantage of the many product discounts and special offers that are only available at the 2003 Annual Session!
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Thursday, May 1
10 a.m. – 6 p.m.

Friday, May 2
7 a.m. – 5 p.m.

Saturday, May 3
7 a.m. – 3 p.m.
Full-page AD
VISA Dental
# Past Presidents

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Richard C. Burns '02

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Mahmoud Torabinejad '93
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Geoffrey Heithersay '00
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Gaylord Palms Resort and Convention Center
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