

**AMERICAN ASSOCIATION OF ENDODONTISTS** 2004 ANNUAL SESSION

> *May 5-8* Anabeim, California



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# **President's Welcome**

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

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

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

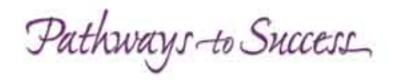
Of course, this meeting is only possible due to the efforts of the Annual Session team led by Dr. Keith V. Krell. The 2004 Annual Session Committee, AAE staff and many more volunteers who were invaluable in creating and implementing the educational program, special events

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

Sincerely,

Maline Jad, D.M.D., M.S.D., Ph.D.

President



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# files

.08 .10 .12

K3 Rotary Nickel Titanium Endodontic Instruments are available in a full range of tapers (.12, .10, .08. .06, .04 and .02) that allow you to instrument any canal safely regardless of the technique you use.

# shape

# K3 Shapers...

- Are available in 17mm for tight posterior areas and in 21mm and 25mm for deep body shaping
- Are variably pitched to avoid grabbing
- Have a larger maximum flute diameter to create space to accommodate heat plugger placement
- Have asymmetrically shaped flutes to keep the file centered and improve cutting efficiency
- Have non-cutting tips for safety

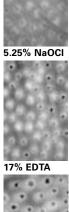
K3's have been described as "great for beginners and when you're an expert there is nothing you can't do with it."

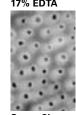
To experience K3, call SybronEndo at (800) 346-ENDO (3636). Visit us online at SybronEndo.com.

irrigants

# clean







SmearClear

instrumentation, a NaOCI soak and further one-minute soak in the respective irrigant.

Photos (2000x) show dentinal tubules after

Photos and study courtesy of Drs. J. Jantarat, K. Yanpiset and C. Harnirattisai.

After just a one-minute soak, SmearClear™ will consistently remove the smear layer and leave the dentinal tubules clear of organic matter. With SmearClear, practitioners recognize increased efficacy in 3-dimensional obturation of the root canal system.



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# Pathways to Success

**Schedule At-A-Glance** 

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

# **Tuesday, May 4**

3-8 P.M.

**Registration and Information** 

Hall A Lobby

# Wednesday, May 5

7 A.M. - 8 P.M. Registration and Information

Hall A Lobby

8 A.M. - 5 P.M. Pre-Session Symposium

Ballroom, Level 3

11:30 A.M. - 4:30 P.M. Orange County Shopping Shuttle

(Optional Tour)

Noon - 4:30 P.M. Mission San Juan Capistrano and

California's First Neighborhood

(Optional Tour)

**6:30 - 8** P.M. Welcome Reception

Hilton - Sunset Deck, 5th floor

# Thursday, May 6

**7** A.M. - **6** P.M. Registration and Information

Hall A Lobby

**8-10** A.M. Opening Session Breakfast

Ballroom, Level 3

10 - 11 A.M. District Caucuses

I - Room 303 A II - Room 203 B III - Room 205 IV - Room 206 V - Room 207 A/B VI - Room 207 C/D

9 A.M. - 5 P.M. Universal Studios and City Walk

(Optional Tour)

10 A.M. - 6 P.M. Exhibits Open

Hall A

10:30 A.M. - NOON Oral Research Presentations

Rooms 201 A/B and 201 C/D

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

11 A.M. - NOON Affiliate Leadership Meeting

Room 303 A

11a.m. - 5 p.m. J. Paul Getty Museum and Lunch

(Optional Tour)

Noon - 1:30 P.M. Louis I. Grossman Luncheon

Room 210

Noon - 4 P.M. Sailing Charter on the Curlew

(Optional Tour-CANCELED)

1:30 - 3 P.M. Educational Sessions

See page 21 for details

Oral Research Presentations

Rooms 201 A/B and 201 C/D

**3-3:30** P.M. Networking Break

Hall A

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

See page 23 for details

**Oral Research Presentations** 

Rooms 201 A/B and 201 C/D

**5-6** P.M. Exhibit Hall Happy Hour and

**Foundation Live Auction** 

Hall A

**6** P.M. Anaheim Angels Baseball Game

(Optional Activity)

# Friday, May 7

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6:30 a.m.	<b>Fun Run</b> Hilton – Front Entrance
<b>7 - 8</b> a.m.	Continental Breakfast Hall A Lobby
7 а.м 5 р.м.	Registration and Information Hall A Lobby
8-9:30 a.m.	Educational Sessions See page 26 for details
	Oral Research Presentations Rooms 201 A/B and 201 C/D
8 - 11:30 а.м.	Poster Research Presentations and Table Clinics Hall A
8 a.m 5 p.m.	Exhibits Open Hall A
	Hands-On Workshop: Endodontic Microsurgery Room 303 C/D
8:30 - 9:30 a.m.	Past Presidents Breakfast Hilton — La Jolla
9:30 - 10 a.m.	Networking Break Hall A
10 - 11:30 a.m.	<b>Educational Sessions</b> See page 32 for details
	Oral Research Presentations Rooms 201 A/B and 201 C/D
10 а.м 4 р.м.	J. Paul Getty Museum and Lunch (Optional Tour)
	Beverly Hills Shopping Extravaganza and Lunch at The Ivy (Optional Tour)
10:30 a.m 3:30 p.m.	Laguna Beach (Optional Tour-CANCELED)
11 а.м 4 р.м.	Behind the Scenes Visit to the Queen Mary (Optional Tour)
11:30 a.m 1:15 p.m.	Edgar D. Coolidge Luncheon Ballroom, Level 3
1:30 - 3 p.m.	<b>Educational Sessions</b> See page 35 for details
	Oral Research Presentations Rooms 201 A/B and 201 C/D
3 - 3:30 p.m.	Networking Break Hall A
3:30-5 p.m.	Educational Sessions See page 37 for details
	Oral Research Presentations Room 201 A/B
9 P.M MIDNIGHT	Celebrate Anaheim! House of Blues/Downtown Disney®

# Saturday, May 8

outuruuy, r	
7:30 - 8:30 a.m.	Continental Breakfast Hall A Lobby
7:30 a.m 5 p.m.	Registration and Information Hall A Lobby
8 - 11:30 a.m.	Poster Research Presentations and Table Clinics Hall A
8 а.м 1 р.м.	Exhibits Open Hall A
8 a.m 5 p.m.	Hands-On Workshop: Endodontic Retreatment Room 303 C/D
8:30 - 10 a.m.	AAE General Assembly Room 303 A/B
9 а.м 1:30 р.м.	Mission San Juan Capistrano and California's First Neighborhood (Optional Tour)
10 - 11:30 a.m.	Educational Sessions See page 42 for details
11:30 а.м 1 р.м.	Colleagues Luncheon Ballroom, Level 3
1:30 - 3 p.m.	Educational Sessions See page 44 for details
3:30-5 p.m.	Educational Sessions See page 45 for details
<b>7-8</b> P.M.	<b>Reception</b> Hilton – Pacific Ballroom Foyer
8 p.m. – Midnight	President's Dinner Hilton – Pacific Ballroom

# **Auxiliary Program**

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

# Thursday, May 6

1:30 - 3 P.M.

**A-101: Proven Enhancement** via UCR and Insurance **Management** 

A-102: Herbal Products and **Patients' Medications: Are They Concerns for Dentistry?** 

3:30 - 5 P.M.

Continuation of A-101 and A-102

# Friday, May 7

8-9:30 A.M. A-201: The Ergonomics of a **Digital Endodontic Office** 

> A-202: Dental Radiographic Pitfalls and How to Avoid Them

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

1:30 - 3 P.M. A-211: Patients Will Love You if You Can Solve Their **Pathologic Mysteries** 

> **A-212:** HIPAA Basics and New **CDC Infection Control** Guidelines

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

# **Saturday, May 8**

10 - 11:30 A.M. A-304: Referral-Based Marketing: What Really Works

1:30 - 3 P.M. A-308: Third-Party Reimbursement Issues and CDT-**4 Insurance Coding Workshop** 

> **\$-310**: Bring Back the Fun and Profitability in **Practice**

3:30-5 P.M. Continuation of S-310





# FOUNDATION LIVE AUCTION

**5-6 p.m., Thursday, May 6**Bidding opens at 5:30 p.m.

ANAHEIM CONVENTION CENTER HALL A

# LIVE BIDDING

Incredible bargains on quality endodontic products, including:

# **ASI Medical Inc.**

Advanced Endodontic System with Satelec Ultrasonic Unit (System can be upgraded or customized with doctor's choice of instruments)

# **CK Dental Specialties, Inc.**

Conventional and Surgical Instruments

# **DENTSPLY Tulsa Dental**

Endodontic and Surgical Systems

# **DogBreath Software, Inc.**

TDO Imaging and Express Modules

# EIE2.com

Carr II Photo Adapter

# **Global Surgical Corporation**

Nikon 4500 digital camera, a digital adapter, a beamsplitter and Personal Display System to be attached to a Global microscope

# **Obtura/Spartan**

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

# Schick Technologies. Inc.

Single User CDR Wireless Digital X-ray System

# **Seiler Precision Microscopes**

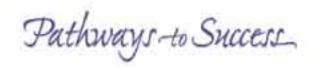
Seiler Model 202 dental operating microscope with video camera

# **SybronEndo**

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

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

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



# **General Information**

# **AAE Oasis**

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

# **AAE Registration and Information**

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

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

# **Annual Session Shirts**

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

# **Badges**

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

# **Board and Committee Meetings**

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

# **Career Opportunities Exchange**

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

# **Childcare**

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

# **Continuing Education Credits**

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



# **Evaluations**

Your opinion counts! Assist the AAE in preparing future programs by completing an evaluation form for each session that you attend. Evaluation forms will be distributed by the room monitor at the beginning of each session and collected at the conclusion. Or, you can drop your completed forms in the receptacles located in the AAE Registration and Information area.

# **Exhibits**

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

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

# **Message Board**

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

# **No Smoking Policy**

For the comfort of all attendees, smoking is not permitted at any AAE function.

# **President's Dinner Seating**

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



time for each person in your group. Tables are reserved on a first-come, first-served basis. The President's Dinner Seating desk will be located in the AAE Registration and Information area during the following hours:

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

# **Registration Categories**

Annual Session registration categories include the following activities and events:

Professional Member: Sessions and Exhibits. Admission to the following: Welcome Reception, Opening Session Breakfast, Continental Breakfasts, Coolidge and Colleagues Luncheons, *Celebrate Anaheim!*, and one ticket to the President's Dinner.

**Student Member:** Sessions and Exhibits. Admission to the following: Welcome Reception, Opening Session Breakfast, Continental Breakfasts, Coolidge and Colleagues Luncheons, and *Celebrate Anabeim!* 

Auxiliary Member: Sessions and Exhibits. Admission to the following: Welcome Reception, Continental Breakfasts, Coolidge and Colleagues Luncheons, and Celebrate Anaheim! (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.
Admission to the Welcome Reception and Celebrate Anaheim! (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:** Admission to the Welcome Reception and *Celebrate Anabeim!* 

# **Restaurant Reservations**

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

# **Session Handouts**

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

# **Session Recording**

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

# Simultaneous Interpretation A

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

# **Speaker-Ready Room**

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

# **Special Assistance**

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

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

# **Special Events and On-Site Ticket Sales**

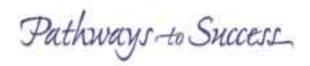
Refer to the Special Events section of this program (page 14) for a listing of special events taking place in conjunction with the Annual Session. If you are uncertain whether an event is included in your registration fee, please see the Registration Categories explanation on this page.

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

# **Tour Program**

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

Tuesday: 3 – 8 p.m. Wednesday: 7 a.m. – 8 p.m. Thursday: 7 a.m. – 6 p.m. Friday: 7 a.m. – 5 p.m. Saturday: 7:30 – 9 a.m.



**KEY:** AGC = Anaheim Convention Center • HA = Hilton Anaheim

# Wednesday

6:30 - 8 P.M.

# Welcome Reception

HA - Sunset Deck, 5th floor

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

# **Thursday**

8 - 10 A.M.

# Opening Session Breakfast \*

ACC - Ballroom



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

Noon - 1:30 P.M.

# Louis I. Grossman Luncheon \*

**ACC** - Room 210

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



In addition, guest speaker Dr. Arthur A. Dugoni will discuss the qualities of leadership and the opportunities for leadership. All too often on the long road, young leaders become servants of "what is" rather than the shapers of "what might be." In the long process of learning how the system works, they are

rewarded for playing within the intricate structure of existing rules and by the time they reach the top, they are likely to be trained prisoners of the structure. Potential leaders who have been schooled to believe that all elements of a problem are rational and technical, reducible to words and numbers, and solvable by computers, are ill-equipped to move into an area where intuition, empathy and listening are very powerful aids in leadership and especially in problem solving.

5 - 6 P.M.

# Exhibit Hall Happy Hour and Foundation Live Auction (Bidding opens at 5:30 P.M.)

ACC - Hall A

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

# **Special Events**

# **Friday**

6:30 A.M.

# Fun Run

**HA** – Front Entrance

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

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

# Edgar D. Coolidge Luncheon \*

ACC - Ballroom

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



# EDGAR D. COOLIDGE AWARD

Eric. J. Hovland, D.D.S., M.Ed., M.B.A.

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



# Louis I. Grossman Award

Larz S.W. Spångberg, D.D.S., Ph.D.

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

EDWARD M. OSETEK EDUCATOR AWARD





Stephen I. Clark, D.M.D.

Karl Keiser, D.D.S., M.S.

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



# I.B. Bender Lifetime Educator Award

Leif K. Bakland, D.D.S.

Presented to an individual who has been a full-time educator for at least 15 years, whose contributions to endodontics have demonstrated excellence through

selfless commitment to full-time educational pursuits, and whose valuable contributions have instilled in his/her students the desire to pursue excellence in their careers. The award is named in honor of Dr. I.B. Bender, in recognition of his legacy as an outstanding teacher and mentor.

# Honorary Membership



Ivar A. Mjör, M.S.D., M.S.

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

# 9 P.M. - midnight

# Celebrate Anabeim!

# **House of Blues/Downtown Disney®**

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

# **Saturday**

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

# Colleagues Luncheon

ACC - Ballroom

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

7 P.M. - Reception

8 P.M. - Dinner

# President's Dinner

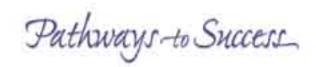
HA - Pacific Ballroom

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

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



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



# **Board and Committee Meetings**

**KEY:** ACC = Anaheim Convention Center • HA = Hilton Anaheim

# Sunday, May 2

AAE Board of Directors Meeting
8 a.m. - 5 p.m.

HA – Huntington

ABE Board of Directors Meeting 8 a.m. – 6 p.m.

HA – Executive Board Room

# **Monday, May 3**

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

# **Tuesday, May 4**

AAE Foundation Board of Trustees Meeting

**8** A.M. — **5** P.M. **HA** — Capistrano

# Wednesday, May 5

AAE Foundation Trustees, AAE Directors and Volunteers Breakfast

7 – 8 a.m. HA – Huntington Honors and Awards Committee Meeting

9 a.m. — NOON HA – La Jolla

Incoming Board of Directors Orientation Meeting

9 A.M. — NOON HA — Palos Verdes

AAE 2004-2005 Committee Chairs Meeting

1:30 - 4:30 P.M. HA - Palos Verdes

# **Alliance Activities**

# Thursday, May 6

Alliance Board of Directors and Incoming Board of Directors Meeting 7 a.m.

**HA** - Executive Boardroom

# Friday, May 7

Alliance General Membership Meeting 8 – 9 a.m. HA – Avila Alliance Member Breakfast

9 - 9:45 a.m. HA - Avila

Speaker-Ellen Cutler, M.D., Author of The Food Allergy Cure

**9:45 - 11:45** a.m. **HA** - Avila

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

# **AAE Alliance Officers**

# President

Rebecca Funderburk (David)

# **President-Elect**

Danielle Semitecolos (Randy Griffin)

### **Secretary**

Carol Hovland (Eric)

### **Treasurer**

Judy Calhoun (Richard)

# **Parliamentarian**

Carol Cooke (Groves)

# **Local Chair**

Stella Okada (Jeffrey)

# **Alumni and Affiliate Functions**

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

# Wednesday, May 5

**Baylor College of Dentistry** 

Reception: 9 - 11 p.m. Manbattan

University of Detroit Mercy

Dinner: 8:30 p.m. Off-Site Location

University of Michigan Alumni

Dinner: 8 p.m. Off-Site Location

U.S. Army Association of **Endodontists** 

Business Meeting: 5:15 - 6:15 p.m. Carmel

**Thursday. May 6** 

Case Western Reserve University

Reception: 5:30 - 7:30 p.m.Laguna B

Harvard School of Dental Medicine

Dinner: 6:30 p.m. Off-Site Location

Loma Linda University

California State Association of Endodontists

Southern California Academy of

**Endodontics** 

Reception: 6:30 - 9 p.m.

Redondo

Louisiana State University

Reception: 6 - 9 p.m.

Coronado

Loyola University

Dinner: 7 - 9 p.m.

Off-Site Location

Marquette University

Reception: 6 - 7 p.m.

Lido A

Michigan Association of Endodontists

Reception: 6:30 - 8 p.m. Laguna A

Oregon Health & Science University

Reception: 6:30 – 8 p.m. San Simeon A

New York University

Reception: 6 - 8 p.m. Huntington B

Nova Southeastern University

Reception: 8:30 - 10 p.m.

Carmel

Temple University

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

**Tufts University** 

Reception: 6 - 7:30 p.m.

La Jolla

State University of New York at Buffalo

Reception: 5 - 7 p.m. Lido C

University of California-Los Angeles

Reception: 5:30 - 6:30 p.m.

Lido B

University of Florida

Reception: 5:30 - 7:30 p.m. Avila B

University of Iowa

Reception: 6 - 8 p.m.

Manbattan

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

Avila A

University of Maryland

Reception: 6:30 - 8:30 p.m. Monterey

University of Missouri-Kansas City

Reception: 5:30 - 6:30 p.m.

Santa Barbara

University of North Carolina Tarbeel Endodontic Association

Reception: 6 - 7:30 p.m.

San Clemente

University of Pennsylvania

Reception: 6 - 7:30 p.m.

Capistrano

University of Pittsburgh

Reception: 6 - 8 p.m.

El Capitan A

University of Southern California

Reception: 6 - 8 p.m.

Palos Verdes

University of Texas at Houston

Reception: 6 - 7:30 p.m.

El Capitan B

University of Texas at San Antonio

Reception: 6 - 8 p.m. *Huntington C* 

University of Washington

Reception: 6 – 8 p.m.

Oceanside

U.S. Navy Association of

Endodontists

Reception: 5:30 - 8 p.m.

Malibu

West Virginia University

Business Meeting: 5 - 6:30 p.m. Executive Boardroom

Friday, May 7

Albert Einstein Endodontic Alumni

Society

Reception: 6 - 7:30 p.m.

Coronado

Boston University

Dinner: 7 p.m. - midnight

Laguna

California State Association of **Endodontists** 

Breakfast/Board Meeting: 7 – 9 a.m.

Salinas

Northwestern University

Reception: 6 - 8 p.m.

Avila

Oklahoma Association of

Endodontists Breakfast Meeting: 7 - 8:30 a.m.

University of Toronto

Breakfast Meeting: 7 – 8:30 a.m. Malibu

U.S. Navy Association of

Endodontists

Breakfast Meeting: 7 - 9:30 a.m. Capistrano

Virginia Commonwealth University/ Medical College of Virginia

Reception: 6 – 8 p.m. San Clemente

**Saturday. May 8** 

**Boston University** 

Breakfast Meeting: 7:30 - 9 a.m.

Palisades

U.S.A.F. Association of Endodontists

Breakfast Meeting: 7 – 8:30 a.m. Off-Site Location

# **Other Functions**

# **Wednesday**, May 5

College of Diplomates

Board of Directors Meeting: 4:30 – 6 p.m. Redondo

Endo Standards Group

Business Meeting: 1 - 5 p.m. Monterey

# Thursday, May 6

African-American Endodontists

Reception: 7:30 - 9 p.m. Huntington A

# Christian Endodontic Society

Reception: 5 - 6 p.m.

Mezzanine Room 14 Harry J. Healey Endodontic Study Club

Reception: 6:30 - 8:30 p.m.

San Simeon B

International Federation of

**Endodontic Associations** Reception: 6:30 - 8 p.m. Santa Monica

# Friday, May 7

French Society of Endodontics

Reception: 6 - 8 p.m. El Capitan

# Saturday, May 8

**Endodontic Section of ADEA** 

Business Meeting: 1:30 p.m. Anabeim Convention Center Room 201 A/B

# **Endodontic Section of Triple O** Editorial Board

Breakfast Meeting: 7 - 8:30 a.m. Lido A

# Pathways-to Success.

# **Pre-Session Symposium**



KENNETH J. ZUCKER, D.D.S., M.S., MODERATOR St. Paul, Minn.



GRAHAM R. HOLLAND, B.D.S., PH.D. Ann Arbor, Mich.



IVAR A. MJÖR, B.D.S., M.S.D., M.S. Gainesville, Fla.



SHAHROKH SHABAHANG, D.D.S., M.S., PH.D. *Loma Linda, Calif.* 



MARTIN TROPE, B.D.S., D.M.D. Chapel Hill, N.C.



PAMELA GEHRON ROBEY, PH.D. Bethesda, Md.

# **Current Concepts and Controversies in Vital Pulp Therapy**

Ballroom, Level 3



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

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

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

Available CE Units: 7

# Wednesday, May 5

7-8 a.m.	Continental Breakfast
8-8:15 a.m.	Introduction
8:15-9:15 a.m.	Biology of the Dental Pulp
9:15 — 10:30 a.m.	Effects of Restorative Procedures on Dentin and Pulp
10:30 – 11 a.m.	Break
11 a.m. — 12:30 p.m.	Management of Pulp in Teeth With Immature Roots
12:30-2 P.M.	Lunch
2-3:15 P.M.	Management of Pulpless Teeth With Immature Roots
3:15-4:15 p.m.	Stem Cells for Oral Tissue Engineering
4:15 – 5 p.m.	Ouestion and Answer Session

This session required registration in advance. On-site registration will not be accepted.

AAE 2004 Annual Session

# 2

# **Biology of the Dental Pulp**

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

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

At conclusion, participants should be able to:

- Identify the basic structure and organization of the dental pulp.
- Describe the ability of the pulp to respond to bacterial challenge.
- Adapt, biologically, to new approaches to vital pulp therapy.

# **Effects of Restorative Procedures on Dentin** and Pulp

IVAR A. MJÖR, B.D.S., M.S.D., M.S.

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

At conclusion, participants should be able to:

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

# Management of Pulp in Teeth With Immature Roots

SHAHROKH SHABAHANG, D.D.S., M.S., PH.D.

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

At conclusion, participants should be able to:

- Recognize treatment options for teeth with immature roots based on the status of the pulp.
- Apply current evidence-based information to treatment planning of teeth with immature roots.

# Management of Pulpless Teeth With Immature Roots

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

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

At conclusion, participants should be able to:

- Understand the challenges presented by pulpless immature teeth.
- Describe the rationale for successful revascularization of such teeth.
- List the conditions under which pulpless immature teeth with apical periodontitis may revascularize.

# **Stem Cells for Oral Tissue Engineering**

PAMELA GEHRON ROBEY, PH.D.

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

At conclusion, participants should be able to:

- Describe the nature of postnatal stem cells that form hard tissue and their similarities and differences.
- Identify their multi-potentiality and their plasticity in forming cells of different types.
- Recognize their possible use in various forms of regenerative medicine.

# Pathways to Success\_

# 10:30a.m.-NOON

# **Oral Research Presentations I**

# **Graduate Student Section**

**Room 201 A/B** 

Moderator: André K. Mickel, D.D.S., M.S.D., Beachwood, Obio

### 10:30 a.m

Effect of 2% Chlorhexidine Gel as an Intracanal Medication on the Apical Seal of the Root Canal System

ROLF M. WUERCH, D.D.S. (PRESENTER)

M.J. APICELLA P. MINES, P.P. YANCICH, D.H. PASHLEY, U.S. Army Dental Activity, Ft. Bragg, NC, U.S. Army Dental Activity, Ft. Sam Houston, TX, and Medical College of Georgia

This session will not be recorded.

### 10:45 a.m.

The *In Vitro* Efficacy of Chlorhexidine, Sodium Hypochlorite and Doxycycline Preparations Against *Enterococcus Faecalis* 

BERNARD H. HOFMANN, D.M.D., M.S. (PRESENTER)

G.E. MINAH, S.B. MCCIANAHAN, J.R. THORPE, J.D. JOHNSON, Naval Postgraduate Dental School, Bethesda, MD, and University of Maryland

### 11 a.m.

The Effect of IKI or Betadine Scrub, Each in Combination With CaOH, Used as Irrigants in *E. Faecalis*—Infected Root Canals

KIMBERLY Y. CATER, D.M.D. (PRESENTER)

T. BUXTON, A.P. JOYCE, S. ROBERTS, F.R. LIEWEHR, U.S. Army Dental Activity, Ft. Gordon, GA, and Department of Clinical Investigations, Fort Gordon, GA

This session will not be recorded.

# 11:15 a.m.

An *In Vitro* Study of the Antimicrobial Action of Chloroform and Chloropercha

SHAHIN ETEMADI, D.D.S. (PRESENTER)

A.K. MICKEL, S. CHOGLE, J. JONES, Case Western Reserve University

### 11:30 a.m.

The Antibacterial Efficacy of Chlorine Dioxide as an Endodontic Irrigant

RUSSELL S. EDDY, D.M.D. (PRESENTER)

T.B. BUXTON, A.P. JOYCE, S. ROBERTS, U.S. Army Dental Activity, Ft. Gordon, GA, and Eisenhower Army Medical Center, Ft. Gordon, GA

# 11:45 a.m.

An *In Vitro* Evaluation of the Cytotoxicity of Various Endodontic Irrigants

BRIAN D. BARNHART, D.M.D. (PRESENTER)

E. LIEWEHR, A. JOYCE, S. ROBERTS, A. CHUANG, J. DALLE LUCCA, U.S. Army Dental Activity, Ft. Gordon, GA

# **Educational Sessions**

# **Oral Research Presentations II**

# **Graduate Student Section**

**Room 201 C/D** 

Moderator: Robert J. Lousbine, D.D.S., Martinez, Ga.

### 10:30 a.m.

A Retrospective Clinical Analysis of Effect of Coronal Restoration on Apical Healing

RAMBOD KAMRAVA, D.D.S. (PRESENTER)

A.R. HARLACHER, M.K. IQBAL, S. KIM, University of Pennsylvania

This session will not be recorded.

### 10:45 a.m.

A Retrospective Clinical Comparison of Radiographic Healing Between Hand and Ni-Ti Rotary Instrumentation Techniques

JOSEPH C. KIM, D.D.S. (PRESENTER)

B. LEE, M.K. IQBAL, S. KIM, University of Pennsylvania

This session will not be recorded.

### 11 a.m.

Comparison of Root Canal Therapy Success Rate in Patients Reporting Diabetes With Patients Denying Diabetes

ADAM J. SHIPP, D.M.D. (PRESENTER)

B. GLICK, J. SCHEETZ, S. CLARK, University of Louisville

# 11:15 a.m.

The Toronto Study: Outcome of Apical Surgery—Phases I and II

NANCY S.T. WANG, D.D.S. (PRESENTER)

K. KNIGHT, T. DAO, S. FRIEDMAN, University of Toronto

This session will not be recorded.

### 11:30 a.m.

Pain After Endodontic Treatment in People Living With HIV/AIDS

TORSTEN H. STEINIG, D.M.D. (PRESENTER)

J.M. PLEMONS, J.D. REGAN, D.E. WITHERSPOON, E.S. SOLOMON, Baylor College of Dentistry

# 11:45 a.m.

Safety of Electronic Apex Locators and Pulp Testers in Patients With Implanted Cardiac Pacemakers or Cardioverter/
Defibrillators

BRIAN L. WILSON, D.M.D. (PRESENTER)

C. BROBERG, J.C. BAUMGARTNER, J. KRON, Oregon Health & Science University

# 1:30-3 P.M.







SYNGCUK KIM, D.D.S., PH.I Philadelphia, Pa.



# S-100 Integrating Visualization Instruments Into Your Practice Room 204

MODERATOR: SCOTT K. BENTKOVER, D.D.S., Evanston, Ill.

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

At conclusion, participants should be able to:

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



UDELL (DELL) WEBB, D.D St. George, Utah

# A-101 Proven Profitability Enhancement via UCR and Insurance Management Room 205

MODERATOR: MS. MICHELE M. WHITLEY, Lynn, Mass.

This course will provide quick and easy tools in order to understand what "UCR" really is, how it is derived and how to explain it to your team and patients. Participants will learn how to know what other endodontists in their area are charging per code and how to implement the newest CDT codes. The course will also include a discussion regarding the use of codes for endodontic treatment and the use of medical codes and claims that are payable to dentists.

At conclusion, participants should be able to:

- Implement the latest CDT codes for greater accuracy and income.
- Describe how medical codes/claims provide patients with another source of reimbursement assistance.
- Describe what "UCR" really is, how it is derived, how to explain it to your team and to patients, and how to reconcile fee schedules and "UCR."



PAM J. SIMS, PHARM.D., PH. Birmingbam, Ala.

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

MODERATOR: B. ELLEN BYRNE, D.D.S., PH.D., Midlothian, Va.

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

At conclusion, participants should be able to:

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



KARL KEISER, D.D.S., M.S.
San Antonio Texas

# S-103 New Horizons in Endodontic Pain Control Room 207 A/B

MODERATOR: DONNA J. MATTSCHECK, D.M.D., Minneapolis, Minn.

The continued development of more effective and predictable methods for pain control is a process that combines the best efforts of basic and clinical scientists. This presentation will explore the developing themes of clinical pain management strategies that are emerging from molecular, cellular and physiologic research into pain mechanisms.

At conclusion, participants should be able to:

- Identify the clinical implications of current research in the area of pain physiology.
- Describe the clinical progress that molecular and cellular investigations in the pharmacology of pain management have provided.

Sessions intended for auxiliary staff are denoted with an "A," and sessions for professionals are designated with an "S."

# Pathways to Success\_

# **Educational Sessions**

# 1:30-3 P\_M\_ (continued)



GARY R. HARTWELL, D.D.S., M.S.

President, American Board of Endodontics

Newark, N.I.

# **S-104** ABE Boardwalk: The Oral Examination

**Room 207 C/D** 

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

American Board of Endodontics Board of Directors

J. CRAIG BAUMGARTNER, D.D.S., M.S., PH.D. PAUL D. ELEAZER, D.D.S. KEITH V. KREIL, D.D.S., M.S., M.A. CARL W. NEWTON, D.D.S., M.S.D.

AL READER, D.D.S.
PAUL A. ROSENBERG, D.D.S.
WILLIAM G. SCHINDLER, D.D.S., M.S.
CHRISTOPHER S. WENCKUS, D.D.S.

# **Oral Research Presentations III**

**Graduate Student Section** 

**Room 201 A/B** 

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

# 1:30 p.m.

The Cleaning Efficacy of Different Instrumentation Techniques in Oval Canals

ZACHARY P. SCHNOOR, D.D.S., M.S. (PRESENTER)

J.R. LUDINGTON, R. PILEGGI, T.A. SVEC, J.A. SUCHINA, J.M. POWERS,  $University\ of\ Texas\ at\ Houston$ 

# 1:45 p.m.

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

ROSTISLAAV R. GUTARTS, D.D.S. (PRESENTER)

J. NUSSTEIN, A. READER, M. BECK, Ohio State University

# 2 p.m.

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

LYNN J. ALBRECHT, D.D.S. (PRESENTER)

J.C. BAUMGARTNER, J.G. MARSHALL, Oregon Health & Science University

# 2:15 p.m.

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

MICHAEL D. BROWN, D.D.S. (PRESENTER)

E. MENEGAZZO, M. IQBAL, S. KIM, University of Pennsylvania

This session will not be recorded.

# 2:30 p.m.

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

JAMES H. YAO, D.M.D. (PRESENTER)

S.A. SCHWARTZ, T.J. BEESON, Wilford Hall U.S.A.F. Medical Center

# 2:45 p.m.

The Effect of Cryogenic Treatment on Nickel-Titanium Endodontic Files

JOON W. KIM, D.D.S. (PRESENTER)

J. GRIGGS, J.D. REGAN, R. ELLIS, Z. CAI, Baylor College of Dentistry

This session will not be recorded.

# **Oral Research Presentations IV**

# **Graduate Student Section**

**Room 201 C/D** 

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

### 1:30 p.m.

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

KEWALIN THAMMASITBOON, D.D.S. (PRESENTER)

JA BOCH, Beth Israel Deaconess Medical Center and Harvard School of Dental Medicine

This session will not be recorded.

### 1.45 n m

Enamel Matrix Derivative Inhibits TNF- $\alpha$  Induced Apoptosis in Osteoblastic MC3T3-E1 Cells

YIMING KING, D.M.D. (PRESENTER)

J. HE, Q. ZHU, University of Connecticut and Baylor College of Dentistry

This session will not be recorded.

# 2 p.m.

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

K. SHANE FOWLER, D.D.S. (PRESENTER)

A. SPENCER, B.G. JEANSONNE, T.E. LALLIER, Louisiana State University

# 

# 2:15 p.m.

**Effect of Sonicated Extracts of Enterococcus Faecalis on** the Expression of  $\alpha 4$  Integrins in Human Polymorphonuclear **Neutophils** 

WON-JUN SHON, D.D.S. (PRESENTER)

S. LIM, Seoul National University, Seoul, Korea

# 2:30 p.m.

**Analysis of Synaptic RNA Expression Within the Pulp** 

CHARLES E. BROWN, D.D.S. (PRESENTER)

B.G. JEANSONNE, A. SPENCER, T.E. LALLIER, Louisiana State University

# 2:45 p.m.

Tumor Necrosis Factor-Alpha Enhances the Expression of **TRPV1 mRNA in Rat Trigeminal Neurons** 

ASMA A. KHAN, R.D.S., PH.D. (PRESENTER)

K.M. HARGREAVES, University of Texas at San Antonio

This session will not be recorded.

# 3:30-5P.M.



# **S-100** continued Integrating Visualization **Instruments Into Your Practice**

IAMES K. BAHCALL, D.M.D., M.S. Milwaukee, Wis. SYNGCUK KIM, D.D.S., PH.D.

Philadelphia, Pa.

MODERATOR: SCOTT K. BENTKOVER, D.D.S.

Evanston, Ill.

See page 21 for a complete session synopsis.

# **A-101 continued Proven Profitability Enhancement via UCR and Insurance Management Room 205**

UDELL (DELL) WEBB, D.D.S. St. George, Utah MODERATOR: MS. MICHELE M. WHITLEY

Lvnn, Mass.

See page 21 for a complete session synopsis.

# **A-102** continued Herbal Products and Patients' **Medications: Are They Concerns for** Dentistry? **Room 206**

PAM J. SIMS, PHARM.D., PH.D. Birmingham, Ala.

MODERATOR: B. ELLEN BYRNE, D.D.S., PH.D.

Midlothian, Va.

See page 21 for a complete session synopsis.



STEPHEN J. CLARK, D.M.D. Louisville, Ky.

# **S-106** The Relationship Between **Endodontics and Periodontics: Diagnosis** and Prognosis of the "Endo-Perio" Lesion **Room 207 A/B**

MODERATOR: PAUL D. ELEAZER, D.D.S., Birmingham, Ala.

This presentation reviews the clinical and radiographic similarities and differences between endodontic and periodontal lesions. The classification and prognosis of these lesions will be discussed, along with an update on the current literature in this area. A number of clinical cases with differing diagnoses will be presented.

At conclusion, participants should be able to:

- Describe the basic classification of endodontic-periodontal lesions.
- Assess the endodontic-periodontal lesion clinically and radiographically, and formulate a treatment plan.
- Identify the nuances of diagnosis and assessment that may indicate the prognosis.

# Pathways to Success

# 3:30-5 P.M. (continued)



OVE A. PETERS, PD DR. MED DENT MS Zürich, Switzerland

# **S-107** Nickel-Titanium Rotary Instrumentation: Facts and Fiction Room 207 C/D

MODERATOR: JOHN D. WEST, D.D.S., M.S.D., Tacoma, Wash.

Nickel-titanium rotary instruments have changed many aspects of clinical endodontics, and many desirable properties are attributed to these instruments. However, unknowns regarding shaping procedures in complex three-dimensional canal systems still exist. This presentation will illustrate cleaning and shaping potential, and evaluate certain claims regarding nickel-titanium instruments. In order to enhance clinical success, the limitations and physical parameters of these instruments will be discussed, and clinical usage and outcomes of cases will be detailed.

At conclusion, participants should be able to:

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



EUGENE A. PANTERA JR., D.D.S., M.S. Buffalo, N.Y.



HIRAN PERINPANAYAGAM D.D.S., M.S., PH.D. Buffalo, N.Y.

# S-108 Periapical Healing Room 303 A

MODERATOR: ANNE E. WILLIAMSON, D.D.S., Coralville, Iowa

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

At conclusion, participants should be able to:

- Recognize the importance of periapical healing for the success of root canal treatment.
- Describe the biological processes that are involved in the repair and regeneration of periradicular tissues.
- Evaluate factors that could enhance or impede the healing process.

# **Oral Research Presentations V**

# **Graduate Student Section**

**Room 201 A/B** 

Moderator: Robert L. Reames, D.D.S., M.S.D., Arlington, Texas

# 3:30 p.m.

Effects of Mineral Trioxide Aggregate on the Osteogenesis of Normal Human Osteoblasts

AMIR H. MEHRABI, D.D.S. (PRESENTER)

J.W. HUTTER, L. CHOU, Boston University

# 3:45 p.m.

White ProRoot MTA Induces Pulpal Cell Proliferation In Vitro

SASAN MOGHADDAME-JAFARI, M.S., D.D.S. (PRESENTER)

M.G. MANTELLINI, T.M. BOTERO, N.J. MCDONALD, J.E. NÖR, University of Michigan

# 4 p.m.

A Comparison of Resected White MTA Versus Retrofilled White MTA: A Dye Leakage Study

MICHAEL R. KERTES, D.M.D. (PRESENTER)

M.J. APICELLA, P. MINES, P.P. YANCICH, M.H. PARKER, U.S. Army Dental Activity, Ft. Bragg, NC, U.S. Army Dental Activity, Ft. Sam Houston, TX, and V.A. Medical Center, Augusta, GA

This session will not be recorded.

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### 4:15 p.m.

Contamination of Mineral Trioxide Aggregate Used as a Root-End Filling Material: A Bacterial Leakage Model

ANGELA M. BULLOCK, D.M.D. (PRESENTER)

S.A. SCHWARTZ, T.J. BEESON, Wilford Hall U.S.A.F. Medical Center

# 4:30 p.m.

A Model for Studying Core Leakage of Mineral Trioxide Aggregate

THOMAS B. BOZEMAN, D.D.S. (PRESENTER)

R. LEMON, J. STURTEVANT, University of Alabama and Louisiana State University

# 4:45 p.m.

Comparative Study of White and Gray MTA Simulating a 1- or 2-Step Apical Barrier Technique

GARY D. MATT. D.D.S. M.S. (PRESENTER)

J. THORPE, J. STROTHER, S. MCCLANAHAN, Naval Postgraduate Dental School, Bethesda, MD

This session will not be recorded.

# **Oral Research Presentations VI**

# **Graduate Student Section**

**Room 201 C/D** 

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

# 3:30 p.m.

Management of Central Sensitization via Pre-Emptive Analgesics Strategies

BRIAN P. CHUANG, D.M.D. (PRESENTER)

C.C. PICCO, S.M. GORDON, J.S. BRAHIM, J.W. HUTTER, R.A. DIONNE, Boston University and National Institute of Dental and Craniofacial Research

# 3:45 p.m.

Articaine vs. Lidocaine for Inferior Alveolar Nerve Blocks in Patients With Irreversible Pulpitis

ELIZABETH M. CLAFFEY, D.D.S., M.S. (PRESENTER)

A. READER, J. NUSSTEIN, M. BECK, J. WEAVER, Ohio State University

# 4 p.m.

Anesthetic Efficacy of Lidocaine and Mepivacaine in the Maxillary Second Division Nerve Block

AMY B. MARTINKUS, D.D.S. (PRESENTER)

A. READER, J. NUSSTEIN, M. BECK, J. WEAVER, Obio State University

# 4:15 p.m.

Anesthetic Efficacy of 4% Articaine With Epinephrine Compared to 2% Lidocaine With Epinephrine in Inferior Alveolar Nerve Blocks

PHILIP B. MIKESELL, D.D.S., M.S. (PRESENTER)

J. NUSSTEIN, A. READER, M. BECK, J. WEAVER, Obio State University

# 4:30 p.m.

Characterization of Bradykinin Receptor—Expressing Neurons in Rat Trigeminal Ganglia

TUSHAR B. PATEL, D.D.S. (PRESENTER)

M.B. TONIOLI, A. PATWARDHAN, A. DIOGENES, J. NAFTEL, K. KEISER, K.M. HARGREAVES, *University of Texas at San Antonio and University of Mississippi* 

# 4:45 p.m.

Effect of Neurotrophic Factors on Bradykinin Receptor Expression in Rat Trigeminal Sensory Neurons Determined by Real Time Polymerase Chain Reaction (RT-PCR)

MATTHEW B. TONIOLI, D.D.S. (PRESENTER)

T.B. PATEL, A. DIOGENES, A. PATWARDHAN, K. KEISER, K.M. HARGREAVES, *University of Texas at San Antonio* 

# Pathways to Success\_ 8 a.m.-5 p.m.





RICHARD A RUBINSTEIN DDS MS Farmington Hills, Mich.

# W-1 Endodontic Microsurgery: A Hands-On Workshop Room 303 C/D

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

At conclusion, participants should be able to:

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

Please note: This workshop required registration in advance.

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

ASI Medical, Inc.

Brasseler USA

**Dentsply Tulsa Dental** 

Global Surgical Corporation

JedMed Instrument Company

Kilgore International

PracticeWorks/Trophy Dental

**Roydent Dental Products** 

Sullivan-Schein Dental

SybronEndo

# 8-9:30a.m.







HAMID R. ABEDI, B.D.S., I.D.S., D.D.S., M.S. Chino Hills, Calif.



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

MODERATOR: SHIMON FRIEDMAN, D.M.D., Toronto, Canada

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

At conclusion, participants should be able to:

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



San Diego, Calif.

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

MODERATOR: ALAN G. SELBST, D.M.D., M.S., J.D., Houston, Texas

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

At conclusion, participants should be able to:

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

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RICHARD A. WEEMS, D.M.D., M.S. Birmingham, Ala.

# A-202 Dental Radiographic Pitfalls and How to Avoid Them Room 206

MODERATOR: DAVID J. HOLTZMANN, D.M.D., M.S., Aurora, Colo.

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

At conclusion, participants should be able to:

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



BARNET B. SHULMAN, D.D.S., P.C New York, N.Y.

# **S-203 Endoscope Use in the Surgical Theatre** Room 207 A/B

MODERATOR: MICHAEL M. HOEN, D.D.S., Detroit, Mich.

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

At conclusion, participants will be able to:

- Describe how the endoscope is used to obtain the visualization required for successful treatment.
- Describe how intracrypt illumination and magnification allows direct observation, diagnosis and treatment.
- Explain why the endoscope will continue to evolve with the technological revolution.



MITSUHIRO TSUKIBOSHI, D.D.S., PH.D. Amagun, Aichi, Japan

# **S-204** Intentional Replantation and Autotransplantation of Teeth—Minimal Intervention for Traumatized Teeth

**Room 207 C/D** 

MODERATOR: LEIF K. BAKLAND, D.D.S., Loma Linda, Calif.

Complex treatment plans often include situations where the choices of intentional replantation or autotransplantation have been overlooked. The indications, advantages and treatment techniques for these procedures will be presented. Also included in the presentation will be a discussion of predictable management of various traumatic dental injuries. The lecture will be extensively illustrated with clinical cases.

At conclusion, participants should be able to:

- Recognize clinical situations suitable for replantation and autotransplantation.
- Evaluate expected outcome transplantation.
- Apply information to the management of traumatic dental injuries.



DAVID R. STEINER, D.D.S., M.S.D. Tacoma, Wash.

# S-205 The Perio-Endo Question: Keys to Diagnosis and Treatment Room 303 A

MODERATOR: GERALD W. HARRINGTON, D.D.S., M.S.D., Seattle, Wash.

Participants will learn how to predictably determine whether endodontic treatment can regain attachment when a patient has a periodontal defect or whether treatment will do nothing for the attachment. At a time when questionable clinical judgments result in extraction and replacement with an implant, it is essential that endodontists are accurate in their clinical discriminations. This presentation will identify the keys to diagnose and treat perio-endo lesions.

At conclusion, participants should be able to:

- Apply common clinical diagnostic procedures to determine both the diagnosis and etiology of the pathosis.
- Identify treatment requirements and sequencing from the diagnostic findings for a predictable outcome.
- State the three criteria necessary for a true combined perio-endo lesion.

This session will not be recorded.

# 8-9:30 A.M. (continued)



ILAN ROTSTEIN, D.D.S Beverly Hills, Calif.

# S-206 Tooth Bleaching: From Science to Practice Room 303 B

MODERATOR: SANDRA MADISON, D.D.S., M.S., Asheville, N.C.

Successful outcome of tooth bleaching depends mainly on the etiology, correct diagnosis and proper selection of bleaching technique. Bleaching of nonvital teeth with oxidizing agents occasionally has been associated with root resorption. The pathogenic mechanism may involve diffusion of the bleaching agent through the radicular dentin, particularly in the presence of cementum defects. In this presentation, the etiology of bleaching-induced root resorption and its prevention will be discussed, based on clinical and experimental data.

At conclusion, participants should be able to:

- Identify the different causes for tooth discoloration and apply bleaching techniques for color correction.
- Describe the etiologic and contributing factors of bleachingassociated root resorption.
- Apply this knowledge for prevention of potential adverse effects.

This session will not be recorded.

# **Oral Research Presentations VII**

# **Graduate Student Section**

**Room 201 A/B** 

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

# 8 a.m.

The Effect of Diabetes Mellitus on Bacteria-Induced Bone Remodeling

ROBYN H. REITER, D.D.S. (PRESENTER)

D. GRAVES, J.W. HUTTER, Y. JIANG, Boston University

# 8:15 a.m.

C-Reactive Protein (CRP) Levels in Response to Chronic Apical Periodontitis in a Canine Model

GUY SHIPPER, B.D.S. (PRESENTER)

T.M. BUTTKE, M. TROPE, University of North Carolina

# 8:30 a.m.

Cervical Root Resorption: Is it Inflammatory or Noninflammatory in Origin?

ERNEST A. RILLMAN, D.M.D. (PRESENTER)

J.H. SIMON, University of Southern California

# 8:45 a.m.

Healing of Mechanical Pulp Exposure in Diabetic and Nondiabetic Rats

STUART E. GARBER, D.D.S. (PRESENTER)

Loma Linda University

### 9 a.m.

The Role of IL-1 Isoforms in Periapical Bone Resorption

HESHAM A. YOUSSEF. D.D.S. (PRESENTER)

P. STASHENKO, Harvard School of Dental Medicine and Forsyth Institute

# 9:15 a.m.

Determination of the Minimum Level of Circulating Bacteria That Causes Infective Endocarditis

LOUIS Z. STROMBERG, D.D.S. (PRESENTER)

A. ESCHER, A.A. SZALAY, S. SHABAHANG, M. TORABINEJAD, Loma Linda University

# **Oral Research Presentations VIII**

# **Endodontist Section**

**Room 201 C/D** 

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

# 8 a.m.

Ultrastructural Study of Nerve Fibers in Inflammatory Periradicular Lesions

LOUIS M. LIN, D.M.D., PH.D. (PRESENTER)

P.A. ROSENBERG, J.A. YANG, New York University

# 8:15 a.m.

Anesthetic Efficacy of the Supplemental Wand® PDL Injection in Patients With Irreversible Pulpitis

JOHN M. NUSSTEIN, D.D.S., M.S. (PRESENTER)

E. CLAFFEY, A. READER, M. BECK, J. WEAVER, Ohio State University

### 8:30 a.m.

A Comparative Evaluation of Celecoxib (a COX-2 Inhibitor) and Ibuprofen for Management of Acute Apical Periodontitis

NASIM G. AZAR, D.D.S., M.D. (PRESENTER)

R. KHERADMAND, Guilan University, Rasht, Iran

# 8:45 a.m.

NPY Y1 Agonists Inhibit Capsaicin-Sensitive Neurons in Peripheral Human Tissue

KARL KEISER, D.D.S., M.S. (PRESENTER)

J. GIBBS, K. HARGREAVES, University of Texas at San Antonio

# 9 a.m.

**Opioids Inhibit Human PDL Nociceptors** 

KENNETH M. HARGREAVES, D.D.S., PH.D. (PRESENTER)

K. KEISER, University of Texas at San Antonio

### 9:15 a.m.

Tissue Solvent Activity of High Concentration NaOCI on Bovine Tendon Collagen

BRADFORD R. JOHNSON, D.D.S. (PRESENTER)

R. MUNARETTO, A. CHRUSZCZYK, J. DANIEL, E.A. BEGOLE, University of Illinois at Chicago

# 8-11:30a.m.

# **Poster Research Presentations**

# **Graduate Student Section**

Hall A

### PR 1

Effects of Silicon, Calcium and Phosphorous Concentrations on the Growth, Differentiation and Mineralization of Dental Puln Cells *In Vitro* 

FARAH ABBASSI, D.M.D.

Boston University

### PR 2

An *In Vitro* Evaluation of the Elements Apex Locator Using the Endo Q System

STEVEN A. BROFSKY, D.M.D.

Virginia Commonwealth University

# PR 3

**The Antibacterial Properties of Endodontic Solvents** 

GEORGE T. BROWN JR., D.M.D.

Case Western Reserve University

### PR 4

A Comparison of Success With 1-Appointment and 2-Appointment Molar Root Canal Therapy

KELLY L. BUSSEY, D.D.S.

University of Louisville

# PR 5

Characterizations of Primary Human Pulpal Stem Cell Cultures: A Comparison of Different Methodologies and Passages of Cells

JAMES C. CHEN, D.D.S.

University of California, Los Angeles

# PR 6

The Ability of Different Concentrations of NaOCI to Dissolve and Reduce the Weight of Bovine Pulp Tissue *In Vitro* 

GRACE T. CHU. D.M.D.

Nova Southeastern University

# **PR 7**

A Comparison of Bacteria on Hands After Alcohol-Based Hand Rub Alone vs. Chlorhexidine Hand Scrub With Water

KENAN D. CLINTON, D.D.S.

University of Alabama

### PR 8

Radiographic Detection of the MB2 Canal in Maxillary Molars Using Digital Enhancement Software

LISA A. ELLINGSEN, D.D.S.

University of Louisville

### PR 9

**How Well Do You Know Your Electric Pulp Tester?** 

GREGORY T. ENGEL. D.M.D.

Naval Postgraduate Dental School, Bethesda, MD

### PR 10

Torsional Testing of RaCe, K3 and ProFile Nickel Titanium Endodontic Files

SEAN D. FESSENDEN, D.D.S.

Virginia Commonwealth University

### PR 11

A Fluid Filtration Investigation of Leakage Through Root Canals

ROXENE S. GASCOIGNE, D.D.S.

Nova Southeastern University

# PR 12

Trends in Endodontic Care in a Washington State Dental Population from 1993 to 2002

RACHELLE S. HECHT, D.M.D., AND THERON D.EICHENBERGER, D.D.S. *University of Washington* 

5 5

# PR 13

Inhibition of Microbial Coronal Leakage of Temporary Filling by Calcium Hydroxide Laver

IGOR KANTOROVICH, D.M.D.

Case Western Reserve University

### PR 1

Cytotoxicity and Genotoxicity of Newly Developed Calcium Phosphate–Based Root Canal Sealers

HEE JUNG KIM, D.D.S., M.S.D.

Seoul National University

# PR 15

A Comparison of Media Used for *In Vitro* Analysis of the SybronEndo Elements Anex Locator

MATTHEW L. KIAR. D.M.D.

University of Louisville

### PR 16

A Comparison of the Accuracy of Working Length Determination in a Clinically Simulated Typodont

HEIDI G. KORN, D.M.D., AND KENNETH W. FALK, D.D.S.

University of Michigan

### PR 1

Application of Nondestructive Testing in Cyclic Fatigue of Endodontic Ni-Ti Rotary Instruments

UEI-MING LI, D.D.S., M.S.

National Taiwan University

# Pathways to Success 8-11:30 A.M. (continued)

# **PR 18**

What's the Point? A New Approach to Apical Irrigation

JUNG LIM, D.D.S., AND SU-JUNG SHIN, D.D.S.

University of Pennsylvania

# PR 19

Electric Pulp Tester Conductance Through Various Interface Media

KIMBERLY A.D. LINDQUIST, D.D.S.

Case Western Reserve University

# PR 20

**Endodontic Prevalence and Influential Retention Factors in a Native American Population** 

MICHAEL I. MINDIOLA. D.D.S.

Case Western Reserve University

# PR 21

**Use of a Portland Cement Accelerator With Mineral Trioxide** Aggregate

M. SCOTT MONTS, D.D.S.

Virginia Commonwealth University

# **PR 22**

**Antibacterial Effectiveness of Chlorhexidine Gluconate Interappointment Root Canal Dressing** 

LISANE PAQUETTE, D.M.D.

University of Toronto

### **PR 23**

Does the Vehicle Influence the Graft and Barrier Materials Effectiveness Against Enterococcus faecalis?

IITEN B. PATEL. D.D.S.

Case Western Reserve University

# PR 24

**Measurement of Dentin Microtensile Fracture Strength** Following Short-Term Calcium Hydroxide Root Filling

BRETT A. ROSENBERG, D.D.S.

Nova Southeastern University

### PR 25

Microbial Contamination of Endodontic Files Received From **Manufacturers** 

TODD P. ROTH. D.M.D.

State University of New York at Stony Brook

# PR 26

Microbiological Evaluation of the ThermaSystem Plus **Obturation System** 

ERIC S. SHAPIRO, D.D.S.

State University of New York at Stony Brook

# PR 27

Lidocaine Evokes Release of Immunoreactive Calcitonin Gene-**Related Peptide in Rat Pulp** 

IEFFREY T. SHELL, D.D.S.

University of Texas at San Antonio

# **PR 28**

Comparison of Apical Leakage Between Immediate vs. Delayed **Post Space Preparation Using AH Plus Sealer** 

FERNANDO H. SOLANO, D.D.S.

University of Medicine & Dentistry of New Jersey

### PR 29

Physical Properties of a New Mineral Trioxide Aggregate **Material** 

DAVID L. SPENCER. D.D.S.

Virginia Commonwealth University

### PR 30

Effect of Full Crown Preparation on the Responsiveness of the Human Dental Pulp to Electrical Stimulation In Vivo

RITA STEINER, D.M.D.

Nova Southeastern University

# PR 31

**Molecular DNA-Based Analysis of Periradicular Lesions: A Pilot** Study

KUMAR SUBRAMANIAN, B.D.S., M.D.S.

Case Western Reserve University

# PR 32

**Apoptosis in Human Odontoblasts Stimulated With LPS** 

AARON J. THOMPSON, D.M.D.

University of North Carolina

# PR 33

The Obtura II Heated Gutta-Percha System's Ability to Destroy **Bacterial Endospores: A Microbiological Analysis** 

SCOTT I. WHITNEY, D.D.S.

State University of New York at Stony Brook

# PR 34

**Effect of Sealer Set and Obturation Technique on Apical Microleakage of Endotoxin** 

ANNE E. WILLIAMSON, D.D.S.

University of Iowa

# PR 35

Histobacteriological Study of Failed Endodontically Treated **Teeth With Overfillings** 

IEAN A. YANG, D.M.D.

New York University

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# **Table Clinics**

# **Graduate Student Section**

Hall A

### TC 1

# Contemporary Endodontic Therapy and Allergens: Have We Opened Pandora's Box?

STEPHEN M. BENJAMIN, D.M.D., AND KYLE D. MOSES, D.D.S.

University of Texas at Houston

# TC 2

# Demonstration of Suturing Techniques Using Simulated Gingiva

JASON R. CALVERT, D.D.S., AND XIA LIN, D.M.D.

New York University

### TC 3

# Triazolam Intensifies Conditioned Fear Physiology—Case Renort

KATHERINE R. CARSON, D.D.S., AND HATIM A. HAMAD, D.D.S.

Naval Postgraduate Dental School, Bethesda, MD

# **TC 4**

# It's All About Knots!

MONICA M. CHAMORRO, D.D.S., AND ELIE E. EZZIE, D.D.S.

Baylor College of Dentistry

# TC 5

# An *In Vivo* Evaluation of Hemostatic Agents for Endodontic Surgery

DAVID Y. CHOW, D.D.S., AND TRAVIS E. CAISSIE, D.D.S.

Marquette University

# TC 6

# History of Endodontic Microbial Analysis: Techniques, Findings and Implications

ALLEN D. COLIC. D.D.S.

Case Western Reserve University

# TC 7

# Digital Photography and the Dental Operating Microscope

BRENT J. CRUMPTON, D.M.D., AND MELISSA L. RUFF, D.M.D.

Naval Postgraduate Dental School, Bethesda, MD

### TC 8

# **Techniques for Difficult Isolation Cases**

CHRISTOPHER A. ETTRICH, D.D.S., AND KENJI G. BEPPU, D.D.S.

University of Washington

# TC 9

# Identifying Clinical Factors to Increase Successful Capping of Exposed Pulps

ABEER A. HAFEZ, B.D.S., M.S., D.D.S.

University of Iowa

### TC 10

# Differences Between Radiographic Interpretation and Clinical Reality in Root Canal Preparations

JAYSON S. HARTMAN, D.M.D., AND JOHN F. PETERS, D.D.S.

Nova Southeastern University

### TC 11

# **Adhesive Techniques for the Retrieval of Separated Files**

SCOTT H. HORSLEY, D.D.S.

University of Louisville

# TC 12

# Relative and Absolute Contraindications to Vasoconstrictor Use in Medically Compromised Dental Patients

FABIAN G. HOSEIN, D.D.S., AND JUSTIN S. ATKINSON, D.M.D.

University of Texas at Houston

# TC 13

# **Extra-Oral Sinus Tracts of Odontogenic Origin**

KRISTIN M. IABBS, D.D.S.

Albert Einstein Medical Center

# TC 14

# An *In Vitro* Comparison of the Setting Time of MTA With and Without Water

CRAIG D. JOHNSON, D.D.S.

Marquette University

# TC 15

# **Effective Rotary Gutta-Percha Removal**

PEI KANG, B.D.S.

Baylor College of Dentistry

# TC 16

# **Apex Locators: Are Numbers, Bars and Lights Relevant?**

PAUL KOGAN, D.D.S., AND YOGESH T. PATEL, D.D.S.

Baylor College of Dentistry

# TC 17

# The Placement and Cost Associated With Non–Tooth Colored Intraorifice Barriers

SCOTT M. MALONEY, D.D.S., AND ANDREW S. HUTTULA, D.D.S.

Naval Postgraduate Dental School, Bethesda, MD

# TC 18

# A New Polymeric Obturating Material: Will It Go With the Flow?

CHRIS M. MALTEZOS, D.D.S., AND JESSE L. ARBAUGH, D.D.S.

Baylor College of Dentistry

# TC 19

A Preliminary Investigation of the *In Vivo* Effects of Sonic Agitation of Sodium Hypochlorite in a Root Canal System

CAMERON L. PANGBORN, D.D.S.

Marquette University

# Pathways-to Success\_

# 8-11:30 A.M. (continued)

# **TC 20**

# **Ultrasonic and Sonic Tools to Remove Posts: Which Are Best?**

KAVITA PATIL-DODDAMANE, B.D.S., D.M.D., AND T. RUSSELL DUNAVANT, D.D.S.

Baylor College of Dentistry

# TC 21

# **Intracanal Antibiotics**

ALVIN S. RO, D.D.S.

Albert Einstein Medical Center

### TC 22

# Blowing Through All-Porcelain Crowns: Access Preparation Using Air Abrasion

CHRISTOPHER R. SABOURIN, D.D.S., AND TIMOTHY L. GATTEN, D.D.S. University of Washington

# **TC 23**

# Anatomic Factors for Failure in Mandibular Anesthesia and Possible Solutions

SHERMA R. SAIF, D.M.D., AND ROBERT T. RADEL, D.M.D.

Naval Postgraduate Dental School, Bethesda, MD

### TC 24

# Problem Solving Digital Photography Through the Surgical Operating Microscope

CHADWICK M. SARGENT, D.D.S., AND PAUL M. CREER, D.D.S.

University of Texas at San Antonio

### TC 25

# Schick's Computerized Imaging System: Software and Image Enhancements

IILLWEN L. SUNG, D.M.D., AND I. YANG, D.M.D.

New York University

### TC 26

### **Revascularization of Avulsed Immature Teeth**

ELLEN A. TEVEROVSKY, D.D.S.

Albert Einstein Medical Center

# **TC 27**

# **Fiber Post Removal Techniques**

J. ERIC WALDEN, D.M.D., M.S.

University of Louisville

# **TC 28**

# **Nerve Injury as a Sequelae of Endodontic Treatment**

MATTHEW B. WALSH, D.M.D.

Albert Einstein Medical Center

# TC 29

# **Endo Dent: A Valuable Accessory to Preclinical Endodontics**

LAUREN B. WILKINSON, D.D.S., AND JOSEPH B. SUFFRIDGE, D.D.S.

University of Michigan

# 10-11:30a.m.



# S-200 continued Holding the High Ground by Mastering Creative Methods to Help Patients Keep Significantly Compromised Teeth

# **Room 204**

C. JOHN MUNCE, D.D.S. Santa Barbara, Calif.

HAMID R. ABEDI, B.D.S., L.D.S., D.D.S., M.S.

Chino Hills, Calif.

MODERATOR: SHIMON FRIEDMAN, D.M.D.

Toronto, Canada

See page 26 for a complete session synopsis.

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

GARY B. CARR, D.D.S.

San Diego, Calif.

MODERATOR: ALAN G. SELBST, D.M.D., M.S., J.D.

Houston, Texas

See page 26 for a complete session synopsis.

# A-202 continued Dental Radiographic Pitfalls and How to Avoid Them Room 206

RICHARD A. WEEMS, D.M.D., M.S.

Birmingham, Ala.

MODERATOR: DAVID J. HOLTZMANN, D.M.D., M.S.

Aurora, Colo.

See page 27 for a complete session synopsis.

# S-204 continued Intentional Replantation and Autotransplantation of Teeth—Minimal Intervention for Traumatized Teeth

# **Room 207 C/D**

MITSUHIRO TSUKIBOSHI, D.D.S., PH.D.

Amagun, Aichi, Japan

MODERATOR: LEIF K. BAKLAND, D.D.S.

Loma Linda. Calif.

See page 27 for a complete session synopsis.



GEORGE T.J. HUANG, D.D.S., M.S.D., D.SC. Los Angeles, Calif.

# **S-207** Cutting-Edge Biotechnologies for Endodontics—From Diagnosis to Treatment

**Room 207 A/B** 

MODERATOR: BRADFORD R. JOHNSON, D.D.S., Chicago, Ill.

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

At conclusion, participants should be able to:

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



RICHARD E. WALTON, D.M.D., M.S. Iowa City, Iowa

# **S-208** Geriatric Endodontics: Diagnosis and Treatment of the Elderly Patient

**Room 303 A** 

MODERATOR: CARL W. NEWTON, D.D.S., M.S.D., Indianapolis, Ind.

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

At conclusion, participants should be able to:

- List the biological similarities and differences between the older and the younger patient.
- Apply treatment techniques that are suitable for the older patient.
- Explain why diagnosis and treatment planning differs and why there are frequently more complications in the older patient.



ROBERT A. GOLDBERG, D.I.

# **S-209** Resident and New Practitioner Forum

**Room 303 B** 

MODERATOR: MAHMOUD TORABINEJAD, D.M.D., M.S.D., PH.D., Loma Linda, Calif.

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

At conclusion, participants should be able to:

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

# **Additional Presenters:**

SAMI M.A. CHOGLE, B.D.S., D.D.S, M.S.D. TANYA K. MACHNICK, D.D.S, M.S. JUDY D. MCINTYRE, D.M.D. DEREK B. NORDEEN, D.D.S. I. EMILY WANG, D.M.D.

# ROAY

# Pathways to Success

# 10-11:30a.m. (continued)

# **Oral Research Presentations IX**

# **Graduate Student Section**

**Room 201 A/B** 

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

### 10 a.m.

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

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

R. PILEGGI, University of Texas at Houston

### 10:15 a.m.

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

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

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

# 10:30 a.m.

Cardiovascular Effects and Efficacy of a Hemostatic Agent in Periradicular Surgery

CHRISTINA H. VY. D.M.D. (PRESENTER)

Oregon Health & Science University

This session will not be recorded.

# 10:45 a.m.

Antibiotic Disinfection of Immature Teeth With Apical Periodontitis

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

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

# 11 a.m.

**Monomer Conversion of Core Buildup Materials** 

SAMUEL J. MUMPOWER, D.M.D. (PRESENTER)

W.F. CAUGHMAN, F.A. RUEGGEBERG, R.J. LOUSHINE, Medical College of Georgia

# 11:15 a.m.

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

LAUREN T.V. PHAN, D.D.S. (PRESENTER)

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

# **Oral Research Presentations X**

# **Endodontist Section**

**Room 201 C/D** 

Moderator: Ashraf F. Fouad, B.D.S, D.D.S, M.S., Farmington, Conn.

### 10 a.m.

Coaggregation of Bacteria Associated With Acute Endodontic Infections

J. CRAIG BAUMGARTNER, D.D.S., M.S., PH.D. (PRESENTER)

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

### 10:15 a.m.

**Cytomegalovirus Infection in Symptomatic Periapical Pathosis** 

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

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

# 10:30 a.m.

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

QIANG ZHU, D.D.S., PH.D. (PRESENTER)

J. HE, K.E. SAFAVI, L.S. SPÅNGBERG, *University of Connecticut and Baylor College of Dentistry* 

# 10:45 a.m.

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

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

M. LUDLOW, L. SPÅNGBERG, Q. ZHU, J. BURLESON, E. TOMASI, *University of Connecticut* 

# 11 a.m.

Intracoronal Sealing Comparison of Mineral Trioxide Aggregate and Glass Ionomer

KEFAH M. BARRIESHI, D.D.S., M.S. (PRESENTER)

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

# 11:15 a.m.

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

TILL DAMMASCHKE, D.M.D. (PRESENTER)

U.J. SCHNEIDER, U. STRATMANN, J. YOO, E. SCHÄFER, Westfaelische Wilhelms-Universitaet, Muenster, Germany

# 1:30-3 P.M.







SERGIO KUTTLER, B.S., D.D.S. Ft. Lauderdale, Fla.



RIGOBERTO PEREZ, D.D.S. Acapulco, Mexico



# **S-210** Cleaning and Shaping Using Nickel-Titanium Redefined: The Pathway to Perfection In Root Canal Preparation

**Room 204** 

MODERATOR: JOHN T. MCSPADDEN, D.D.S., Lookout Mountain, Ga.

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

At conclusion, participants should be able to:

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

This session will not be recorded.



KEN R. TILASHALSKI, D.M.D. Birmingham, Ala.

# **A-211 Patients Will Love You if You Can** Solve Their Pathologic Mysteries

**Room 205** 

MODERATOR: CINDY R. RAUSCHENBERGER, D.D.S., M.S., Elgin, Ill.

In a presentation on oral pathology appropriate for the entire staff, pathologic mysteries will come to life. Participants will learn key points to help make life easier. Topics for discussion include: What is that thing and how do I treat it? What caused this and how do I prevent it? If it hurts, what will make it feel better? Exciting, newly developed treatment modalities will also be highlighted.

At conclusion, participants should be able to:

- Identify common soft tissue conditions.
- Recognize the etiology of mucosal ulcers and lesions.
- Identify commonly used drugs in the treatment of soft tissue lesions.



JACKIE DORST, R.D.H., B.S San Clemente, Calif.

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

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

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

At conclusion, participants should be able to:

- Describe proper communication for protected health information during clinical treatment.
- Identify the potential for disease transmission in endodontics.
- Describe endodontic applications of the new CDC infection control recommendations.



JOSE F. SIQUEIRA JR., D.D.S., M.SC., PH.D. Rio de Janeiro, Brazil

# **S-213** Advances in Endodontic Microbiology

**Room 207 A/B** 

MODERATOR: I. CRAIG BAUMGARTNER, D.D.S., M.S., PH.D., Portland, Ore.

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

At conclusion, participants should be able to:

- Describe microbial causation of different forms of periradicular diseases.
- Identify the major putative endodontic pathogens and their particular involvement with symptomatic and persistent endodontic infections
- Identify the requirements for a given microbial species to be regarded as endodontic pathogens.

# Pathways to Success

# 1:30-3P.M. (continued)



RAYMOND J. MELROSE, D.D.S. Los Angeles, Calif.

# **S-214** Radicular Lesions Simulating Inflammatory Disease: The Case for Routine Biopsy Submission Room 207 C/D

MODERATOR: LYNNE A. BALDASSARI-CRUZ, D.D.S., Menlo Park, Calif.

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

At conclusion, participants should be able to:

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



BERNARD B. FINK, B.A., D.D.S Fairfax, Va.

# S-215 Taking In or Becoming an Associate or Partner Room 303 A

MODERATOR: GERALD C. DIETZ SR., D.D.S., M.S., Bloomfield Hills, Mich.

This course will provide a reference framework in today's changing economy for the private practitioner who is considering an associate with partnership possibilities. Topics include evaluating the need for an associate, finding the proper associate, contract terms, employment methods, evaluating the partnership process, determining practice equity, terms of partnership purchase, financing and withdrawal from practice. Learn how to make successful decisions to maximize and protect the investment in your practice.

At conclusion, participants should be able to:

- Evaluate the need for an associate and/or partner.
- Determine practice equity.
- Describe the terms of partnership purchase, financing and withdrawal from practice.



JAMES COWHERD, R.D.A. Las Vegas, Nev.

# S-216 Incorporating PowerPoint® Into Treatment Plans Room 303 B

MODERATOR: W. CRAIG NOBLETT, D.D.S., M.S., Berkeley Calif.

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

At conclusion, participants should be able to:

- Describe the capabilities of Microsoft PowerPoint® and Adobe Photoshop® software to enhance treatment planning.
- Describe the qualities of effective presentations.
- Edit photos to improve the impact of the presentation.

# **Oral Research Presentations XI**

# **Graduate Student Section**

**Room 201 A/B** 

Moderator: Jeffrey P. Lilly, D.D.S., West Des Moines, Iowa

# 1:30 p.m.

Nickel Titanium Rotary File Breakage in a Dental School Simulation

KAMEN I. GENOV, D.D.S. (PRESENTER)

P.M. DI FIORE, E.W. BREMER, T.P. LAMMOT, P.A. ROSENBERG, New York University

# 1:45 p.m.

Comparison of Generated Forces and Apical Microleakage Using Nickel-Titanium and Stainless-Steel Spreaders

SAMAN R. GHARAI, D.D.S., M.S. (PRESENTER)

J.R. THORPE, J.M. STROTHER, S.B. MCCLANAHAN, Naval Postgraduate Dental School, Bethesda, MD

# 2 p.m.

Comparison of 2 Different Direct Digital Radiography Systems for the Ability to Detect Artificially Prepared Periapical Lesions

ROBERT B. FOLK, D.D.S. (PRESENTER)

J.R. THORPE, S.B. MCCLANAHAN, J.D. JOHNSON, J.M. STROTHER, Naval Postgraduate Dental School, Bethesda, MD

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### 2:15 p.m.

### Utilization of Computer and Digital Technology by General Practitioners and Endodontists: A Survey

W. SETH STEWART, D.M.D. (PRESENTER)

R.J. LOUSHINE, R.N. WELLER, J.L. WALLER, Medical College of Georgia

### 2:30 p.m.

### Lifetime Prediction of NiTi Rotary Instruments: A Materials Engineering Analysis

JEREMY M. YOUNG, D.D.S. (PRESENTER)

K.J. VANVILLET. Harvard School of Dental Medicine and Massachusetts Institute of Technology, Cambridge, MA

### **Oral Research Presentations XII**

### **Endodontist Section**

**Room 201 C/D** 

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

### 1:30 p.m.

### **Lateral Canals in the Palatal Root of Maxillary First Molars**

RORY E. MORTMAN, D.D.S. (PRESENTER)

S. AHN, Palm Beach County Dental Research Clinic, West Palm Beach, FL

### 1:45 p.m.

### Reliability of Electronic Apex Locators to Determine Working Length With Different Instrument Sizes

BENJAMIN BRISEÑO MARROQUÍN, D.D.S. (PRESENTER)

S. HETZEL, B. WILLERSHAUSEN, University of Mainz, Germany

### 2 p.m.

### Mechanical and Microscopic Evaluation of NiTi Files After Clinical Use

GIANLUCA GAMBARINI, D.D.S. (PRESENTER)

University of Rome, Italy

### 2:15 p.m.

### Fractographic Studies of Nickel-Titanium Rotary Files

TIMOTHY A. SVEC. D.D.S., M.S. (PRESENTER)

WA BRANTLEY, S.B. ALAPATI, I.M. NUSSTEIN, G.S. DAEHN, J.M. POWERS, *University of Texas at Houston and Obio State University* 

### 2:30 p.m.

### Root Canal Preparation With Ultradent Endo-Eze: Remaining Dentin Thickness Assessed by Micro-Computed Tomography

FRANK PAQUÉ, D.M.D. (PRESENTER)

F. BARBAKOW, O.A. PETERS, University of Zürich

### 2:45 p.m.

### Effects That Variations of Carrier Penetration Have on Adaptation of Thermoplasticized Gutta-Percha

MARC E. LEVITAN, D.D.S. (PRESENTER)

J.B. LUCKEY, V.T. HIMEL, University of Tennessee, Memphis

# 3:30-5p.m.



### S-210 continued Cleaning and Shaping Using Nickel-Titanium Redefined: The Pathway to Perfection In Root Canal Preparation

### **Room 204**

MANISH GARALA, B.D.S., M.S.

Houston, Texas

SERGIO KUTTLER, B.S., D.D.S.

Ft. Lauderdale, Fla.

RIGOBERTO PEREZ, D.D.S.

Acapulco, Mexico

MODERATOR: JOHN T. MCSPADDEN, D.D.S.

Lookout Mountain, Ga.

See page 35 for a complete session synopsis.

# **A-211 continued Patients Will Love You if You Can Solve Their Pathologic Mysteries**

### **Room 205**

KEN R. TILASHALSKI, D.M.D.

Birmingham, Ala.

MODERATOR: CINDY R. RAUSCHENBERGER, D.D.S., M.S.

Elgin, Ill.

See page 35 for a complete session synopsis.

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

JACKIE DORST, R.D.H., B.S.

San Clemente, Calif.

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

Huntsville, Ala,

See page 35 for a complete session synopsis.

# S-215 continued Taking In or Becoming an Associate or Partner Room 303 A

BERNARD B. FINK, B.A., D.D.S.

Fairfax, Va.

MODERATOR: GERALD C. DIETZ SR., D.D.S., M.S.

Bloomfield Hills, Mich.

See page 36 for a complete session synopsis.

# Pathways to Success\_

# 3:30-5P.M. (continued)



THOMAS R. PITT FORD, B.D.S., PH.D. London, England

### S-217 Root-end Filling Room 207 A/B

MODERATOR: CHRISTOPHER S. WENCKUS, D.D.S., Chicago, Ill.

This presentation will review the historical choice of root-end filling materials in surgical endodontics. The handling and the physical, chemical and biological properties of the materials will be evaluated, and the outcome of clinical studies will be reviewed. A rational choice of material for current practice will be presented.

At conclusion, participants should be able to:

- Identify the desirable properties of a root-end filling material.
- Select a root-end filling material for clinical usage.
- Describe the scientific evidence for material selection.



ALLEN R. HELFER, D.D.S., M.SC.D. Stamford, Conn.



WILLIAM H. CHEN, D.M.D.

Granite City, 111.

# **S-218 The Clinical Utilization of YSGG Technology in Endodontics** Room 207 C/D

MODERATOR: SAMUEL O. DORN, D.D.S., Ft. Lauderdale, Fla.

This presentation will provide an overview of the state-of-the-art technology of the YSGG laser with a wavelength that has been marketed under FDA guidelines for use with hard and soft tissue. Highlights include a discussion of an SEM evidence-based study. Participants will learn about the laser's hydrokinetic system in performing a pulpotomy, accessing teeth, cleaning, shaping and disinfecting, as well as in root-end resections. A description of the proper settings of power, air and water will supply detailed information.

At conclusion, participants should be able to:

- Describe the technology used in the operation of the YSGG laser.
- Describe the use of the YSGG laser in various endodontic procedures.
- Describe why the YSGG laser is another modality to be included within our existing endodontic armamentarium.



JAMES COWHERD, R.D.A. Las Vegas, Nev.

### **S-219** Adding Creativity to PowerPoint®

**Room 303 B** 

MODERATOR: W. CRAIG NOBLETT, D.D.S., M.S., Berkeley Calif.

This session will enable doctors who are familiar with PowerPoint® features to learn how to effectively incorporate graphics, audio and video into their presentations. Participants will discover how to create and modify custom animation, and create templates for professional quality title slides to convey information that will captivate the audience. Three PowerPoint® shortcuts will be shared in order to minimize time needed to build a presentation.

At conclusion, participants should be able to:

- Describe how to enhance presentations with graphics, audio, video and animation.
- Demonstrate advanced PowerPoint® techniques to create captivating templates.
- Describe how to decrease production time when building a presentation.

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DONALD ARENS, D.D.S., M.S.D Indianapolis, Ind.

### **S-220 Testing the Limits of Endodontic** Therapy Room 201 C/D

All endodontists have taken cases that will never be forgotten. Either the patient, the difficulty or the circumstances made a particular case memorable. Eight practicing endodontists with more than 300 collective years of experience will each share a memorable case that tested their knowledge, skills, discipline, courage, experience and, to no lesser degree, the healing potential of the patients. Participants will more than likely face somewhat similar situations, though the chances of seeing any of these exact cases may be remote. The attendees should leave with the realization that a practicing endodontist is often the last resort in a patient's fight to ward off the beaks of a forceps. This is what makes endodontists unique and explains the need to sometimes go to the edge of therapy to meet a patients' desire to keep their teeth.

At conclusion, participants should be able to:

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

### **Additional Presenters:**

PAUL V. ABBOTT, M.D.S. J. CRAIG BAUMGARTNER, D.D.S., M.S., PH.D. L. STEPHEN BUCHANAN, D.D.S. MARSHALL D. PEIKOFF, D.M.D., M.S.D.

ROBERT J. ROSENBERG, D.D.S., D.SC.D. KENNETH J. SPOLNIK, D.D.S., M.S.D. CALVIN D. TORNECK, D.D.S., M.S. JULIAN WEBBER, B.D.S., M.S.

This session will not be recorded.

### **Oral Research Presentations XIII**

### **Graduate Student Section**

**Room 201 A/B** 

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

### 3:30 p.m.

The Comparison of Rotary Instrumentation and Continuous **Wave Obturation to Reciprocating Instrumentation and Single Cone Obturation With a Hydrophilic Sealer** 

PAUL S. SAHNI, D.M.D. (PRESENTER)

C.E. BROWN, J.J. LEGAN, N.A. WARNER, B.K. MOORE, Indiana University

This session will not be recorded.

### 3:45 p.m.

An *In Vitro* Evaluation of the Area of Canal Space Occupied by **Gutta-Percha Using 3 Different Warm Obturation Methods** 

CHARLES F. HINE, D.D.S. (PRESENTER)

C.E. BROWN, J.J. LEGAN, N.A. WARNER, B.K. MOORE, Indiana University

This session will not be recorded.

### 4 p.m.

**Perforation Repair Comparing Two Types of Mineral Trioxide** Aggregate

DOUGLAS M. FERRIS, D.M.D. (PRESENTER)

J.C. BAUMGARTNER, Oregon Health & Science University



# Pathways to Success\_ 8-11:30a.m.

### **Poster Research Presentations**

### **Endodontist Section**

Hall A

(\*\*Denotes Dental Student)

### PR 36

Smear Layer Removal by Chlorhexidine: A Comparative **Scanning Electron Microscopy Study** 

BETTINA R. BASRANI, D.D.S., M.S.D., PH.D.

Halifax, Canada

### PR 37

**Expression of LPS Receptors in Mouse Dental Pulp Cells** 

TATIANA M. BOTERO. D.D.S., M.S.

Ann Arbor, MI

### PR 38

Biomineralizing Potential of White MTA: An In Vitro Study

RICARDO CAICEDO, D.D.S.

New Orleans, LA

### PR 39

**Evaluation of a 3-Dimensional Computer Model of Root Canals** 

CHIA-YI CHEN, D.D.S.

New York, NY

### PR 40

**Efficiency of Root Canal Preparation by Newly Designed Nickel-Titanium Rotary Files** 

ARATA EBIHARA, D.D.S., PH.D.

Tokyo, Japan

### PR 41

Relations Between Incidence of Black-Pigmented Anaerobic **Rods and Clinical Symptoms on Traumatic Nonvital Teeth** 

NORIYASU HOSOYA, D.M.D., PH.D.

Yokohama, Japan

### PR 42

The Effects of Sterilization on Endodontic Files

MIRI KIM, D.D.S., PH.D.

Seoul, Korea

### PR 43

**Effect of Epinephrine-Containing Local Anesthetics on Pulpal Blood Flow in Mechanically Stimulated Teeth** 

SUNG-KYO KIM. D.D.S., M.S.D., PH.D.

Daegu, Korea

### **PR 44**

**Evaluation of Autotransplanted Third Molars With Endodontic** 

YOSHIFUMI KINOMOTO, D.D.S., PH.D.

Osaka, Japan

### PR 45

**Durability of the Nickel-Titanium File in Curved Canals** 

CHIHIRO KOBAYASHI, D.D.S., PH.D.

Tokyo, Japan

### PR 46

**Pulpal Disease Secondary to Intracoronal Restoration Placement** 

\*\*MR. IASON LAMBERT

University of North Carolina

### PR 47

**Evaluation of Canal Shapes During Instrumentation With ProFile .04 and Lightspeed Using Micro-CT** 

WOO-IIN LEE, D.D.S.

Seoul. Korea

Effects of Various pH Environments on the Hydration Behavior of Mineral Trioxide Aggregate

YUAN-LING LEE, D.D.S., M.D.S.

Taipei, Taiwan

### PR 49

Oral Enterococci in Subjects With and Without a History of **Endodontic Treatment** 

\*\*MS. SARAH LENNAN

University of Michigan

### PR 50

In Vitro Study of Dentin Hypersensitivity Treated by a Modified **Bioglass and Nd:YAP Laser** 

CHUN-PIN LIN, D.D.S., M.S., PH.D.

Taipei, Taiwan

### PR 51

Thermographic Assessment of the Temperature Rise on the **Outer Surface of Roots During Filling With SuccessFil or Hybrid Technique** 

MARIUSZ P. LIPSKI, D.D.S., PH.D.

Szczecin, Poland

### PR 52

Effect of Sonicated Extracts of *Enterococcus Faecalis* on the Production of Matrix Metalloproteinase-8 by Human Polymorphonuclear Neutrophils

SUNG-KYUNG PARK, D.D.S.

Seoul, Korea

### PR 53

Tissue Toxicity of a New Endodontic Filling Material

GIANCARLO PONGIONE. D.D.S.

Naples, Italy

### PR 54

*In Vivo* Study on the Biocompatibility of Newly Developed Calcium Phosphate–Based Root Canal Sealers

JUNG-HWAN SEOL, D.D.S., AND KWANG-SHIK BAE, D.D.S., PH.D.

Seoul, Korea

### PR 55

Comparison of Pulpal Sodium Channel Density in Normal Teeth to Diseased Teeth With Severe Spontaneous Pain

\*\*\*MR. HOWARD J. SORENSEN AND LANCE J. SKIDMORE, D.D.S.

University of Colorado

### PR 56

**Evaluation of the Efficiency of a New File Removal System** 

YOSHITSUGU TERAUCHI, D.D.S.

Tokyo, Japan

### PR 57

Alkaline Phosphatase and Osteonectin Gene Expression to 3 Root-End Filling Materials Using Human Osteoblast-Like Cells

KAYO UEDA, D.D.S., AND GIN-ICHIRO HATA, D.D.S.

Osaka, Japan

### PR 58

Root Canal Morphology of Mandibular First Premolar in a Chinese Population

SHUE-FEN YANG, D.D.S., M.S.

Taipei, Taiwan

### **Table Clinics**

### **Endodontist Section**

Hall A

### TC 30

MTA Repair of Lingual Groove in C-Shaped Canal Tooth During Replantation

WOOCHEOL LEE, D.D.S.

Seoul, Korea

### TC 31

The Use of MTA in a Furca Perforation of a First Mandibular Molar With Alveolar Bone Breakdown

BORJA ZABALEGUI, D.D.S., AND JOSE M. MALFAZ, D.D.S., M.D., PH.D.

Bilbao, Spain and Valladolild, Spain

# Pathways to Success\_ 8a.m.-5p.m.





DAVID D. ROSENBERG, D.D.S Vero Beach, Fla.

### W-2 Endodontic Retreatment: A Hands-On Workshop Room 303 C/D

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

At conclusion, participants should be able to:

SATC

- Identify the possibilities and limitations of endodontic retreatment.
- Apply the material presented in clinical practice.
- Describe how iatrogenic errors occur and ways to prevent them from occurring.

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

# O-11:30a.m.



KENNETH M. HARGREAVES, D.D.S., PH.D. San Antonio, Texas

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

MODERATOR: CHARLES L. SIROKY, D.D.S., Phoenix, Ariz.

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

At the conclusion, participants should be able to:

- Identify the key strategies in preparing a successful grant.
- Develop grant proposals that use these strategies for a specific research project.
- Revise grant applications following study section comments.



PHILIP W. COHEN, D.D.S., M.S.



BARRY K. FREYDBERG, D.D.S. Skokie, Ill.



### S-301 Basic Computer Education—Let's Talk About What You Thought You Knew!

**Room 201 C/D** 

MODERATOR: IOSEPH S. DOVGAN, D.D.S., M.S., Paradise Valley, Ariz.

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

At conclusion, participants should be able to:

- Describe how computers work.
- Describe how computers communicate.
- Identify what to look for when purchasing computer equipment and learn a vocabulary that will enable effective communication with vendors and support personnel.

**AAE 2004 Annual Session** 42



MARTIN TROPE, B.D.S., D.M. Chapel Hill, N.C.



# **S-302** A New Bonded Resin Material for Filling the Root Canal Room 204

MODERATOR: ASGEIR SIGURDSSON, D.D.S., M.S., Chapel Hill, N.C.

The aim of a root canal filling material is to seal in remaining bacteria or prevent further bacterial invasion in the canal. A new thermoplastic resin bonding material with all the properties of guttapercha but with vastly superior sealing abilities has been developed for filling the root canal. When used, the root is strengthened. This lecture will outline the biological requirements for successful endodontics and the shortcomings of gutta-percha, and will discuss the improvements offered by thermoplasticized resin.

At conclusion, participants should be able to:

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



AUGUSTO MALENTACCA, D.D.S

# **S-303** Transparent Sections: A Method for Teaching and Research Room 205

MODERATOR: WALTER R. BOWLES, D.D.S., M.S., Minneapolis, Minn.

Transparent sections of teeth without decalcification allow observation of normal endodontic procedures and a greater understanding of many clinical situations. Participants can see how the instruments shape the real canals with complex canal anatomies, how irrigants work on the pulp and how gutta-percha penetrates the endodontic anatomy.

At conclusion, participants should be able to:

- Describe the method of creating transparent sections and the use of coloring to outline the various tissues present in the tooth.
- Describe the action of endodontic instruments inside canals with different anatomical complexities.
- Simulate such complex clinical situations as calcified canals, broken instruments, ledges, etc., using this technique, in order to select proper instrumentation to manage these cases.



IARTIN D. LEVIN, D.M. Chevy Chase, Md.

# A-304 Referral-Based Marketing: What Really Works Room 206

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

Marketing is finding out what your patients and referring doctors want, and then giving it to them. The secret is determining what your customers deeply value and matching it with what you do best and most profitably. It is no secret that patients and referring doctors judge your office on a continuing basis, so a consistent focus is critical. This lecture will examine the role of the endodontic office team in defining objectives and understanding the relationship between the value of services provided, satisfaction and loyalty.

At conclusion, participants should be able to:

- Create a strategic marketing plan to define objectives.
- Describe how satisfaction is driven by the perceived value of services provided.
- Describe how to consistently generate loyalty among your referring doctors and patients.

# SATURDAY



SANDRA MADISON, D.D.S., M.S. Asheville, N.C.

### S-305 Educators Forum: Accreditation Standards for Advanced Specialty Education Programs in Endodontics Room 201 A/B

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

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

At conclusion, participants should be able to:

- Describe the accreditation process and the role of standards.
- Compare the current and proposed standards.
- Assess the value of the proposed standards revisions.

### **Additional Presenters:**

LEIF K. BAKLAND, D.D.S. Joel L. Dunsky, D.D.S. Paul D. Eleazer, D.D.S. BILLIE G. JEANSONNE, D.D.S., PH.D. WILLIAM A. WALKER III, D.D.S.

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



BRADLEY A. ELI, D.M.D., M.S.

### S-306 Oral Facial Pain Room 201 C/D

MODERATOR: JEFFREY P. LILLY, D.D.S., West Des Moines, Iowa

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

At conclusion, participants should be able to:

- Describe the difference between pain, suffering and nociception.
- Expand their knowledge regarding pain and differential diagnoses.
- Identify the basic treatment alternatives for patients with nonodontogenic pain.



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



### **S-307** Nonsurgical Root Canal Treatment

**Room 204** 

MODERATOR: TY E. ERICKSON, D.D.S., West Des Moines, Iowa

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

At conclusion, participants should be able to:

- Identify the best methods for eliminating posts, cores and broken instruments.
- Perform effective techniques for removing silver points and carrierbased obturators.
- Utilize "microsonic" procedures to refine access cavities and locate missed canals.

This session will not be recorded.



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

# **A-308** Third-Party Reimbursement Issues and CDT-4 Insurance Coding Workshop

**Room 205** 

MODERATOR: HOWARD B. FINE, D.M.D., Rochester, N.Y.

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

At conclusion, participants should be able to:

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

This session will not be recorded.

45



STANLEY F. MALAMED, D.D. Los Angeles, Calif.

### **S-309 Pain, Anxiety and Dentistry Room 206**

MODERATOR: ALEXANDRE A.P. FLEURY D.D.S., M.S., Plano, Texas

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

At conclusion, participants should be able to:

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



ALBERT C. GOERIG, D.D.S., M.S. Olympia, Wash.

# **S-310** Bring Back the Fun and Profitability in Practice Room 207

MODERATOR: TERRYL A. PROPPER, D.D.S., M.S., Brentwood, Tenn.

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

At conclusion, each participant should be able to:

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



STEPHEN COHEN, M.A., D.D.S. San Francisco, Calif.



GERALD N. GLICKMAN, D.D.S., M.S., J.I Dallas, Texas



STEPHEN F. SCHWARTZ, D.D.S., M.S. Houston, Texas



BRUCE H. SEIDBERG, D.D.S., J.E Syracuse, N.Y.

# S-311 Defining "Standards of Care" in Endodontics Room 303 A/B

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

At conclusion, participants should be able to:

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

This session will not be recorded.

# 3:30-5P.M.



### S-307 continued Nonsurgical Root Canal

**Treatment** Room 204

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

MODERATOR: TY E. ERICKSON, D.D.S.

West Des Moines, Iowa

See page 44 for a complete session synopsis.

### S-309 continued Pain, Anxiety and Dentistry

**Room 206** 

STANLEY F. MALAMED, D.D.S.

Los Angeles, Calif.

MODERATOR: ALEXANDRE A.P. FLEURY, D.D.S., M.S.

Plano. Texas

See this page for a complete session synopsis.

# Pathways to Success

3:30-5P.M. (continued)

# S-310 continued Bring Back the Fun and Profitability in Practice Room 207

ALBERT C. GOERIG, D.D.S., M.S.

Olympia, Wasb.

MODERATOR: TERRYL A. PROPPER, D.D.S., M.S.

Brentwood. Tenn.

See page 45 for a complete session synopsis.

### S-311 continued Defining "Standards of Care"

### in Endodontics Room 303 A/B

STEPHEN COHEN, M.A., D.D.S. San Francisco, Calif.

GERALD N. GLICKMAN, D.D.S., M.S., J.D.

Dallas, Texas

STEPHEN F. SCHWARTZ, D.D.S., M.S.

Houston, Texas

BRUCE H. SEIDBERG, D.D.S., J.D.

Syracuse, N.Y.

See page 45 for a complete session synopsis.



JOHN A. KHADEMI, D.D.S., M.S Durango, Colo.

# **S-312** No Darkroom, No Charts and No Filing Cabinets? Room 201 A/B

MODERATOR: G. GARO CHALIAN, D.D.S., M.S., Aurora, Colo.

This course will demonstrate how to go completely digital in all facets of the practice from radiography and imaging, to charting, to the administrative and business aspects of running a dental practice and your life. This presentation will explain the strategies required to assemble a variety of technologies available from the dental industry to completely eliminate the management and storage of paper and film. Participants will experience the reality that a dental practice, including radiographs, charts, health history, supply orders and more, can be managed digitally.

At conclusion, participants should be able to:

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



JAMES A. WALLACE, D.D.S., M.D.S., M.S.D., M.S. Pittsburgh, Pa.

### **S-313 Endodontic Surgery With the YSGG**

**Laser** Room 201 C/D

MODERATOR: ANTHONY P. JOYCE, D.D.S., Evans, Ga.

This course will provide a thorough description of how the YSGG laser works, indications for use and the technique for use in endodontic surgery throughout the oral cavity and associated detail anatomy and healing. Problems and contraindications will also be covered.

At conclusion, participants should be able to:

- List indications and contraindications for using the YSGG laser.
- Describe the surgical procedures for endodontic surgery with the YSGG laser in all areas of the oral cavity.
- Describe the anatomy and healing associated with endodontic surgery performed with the YSGG laser.



ARSHEN LIN, D.D.S. Boston, Mass.

# **S-314** The Working Dimension: Working Length and Working Diameter Room 205

MODERATOR: RAPHAEL R. GAROFALO, B.SC., D.D.S., Montreal, Quebec, Canada

Endodontic success requires accurate cleaning, shaping and obturating of the canals. Determining both the optimal working dimension and length of the individual canals is key, yet little research exists to define either. This presentation will focus on developing a working dimension—a concept that includes both working length and working diameter and will provide a literature review, philosophical backgrounds and updates on the current working dimension study with 3-D models by Harvard University, Stanford University and NASA.

At conclusion, participants should be able to:

- Describe the current philosophies of working length and working diameter determination.
- Describe the concept of working dimension in concert with the most current research results.
- Integrate the working dimension concept into their current clinical practices.

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# **Exhibit Hall Floor Plan**

### 2004 Exhibit Hall Schedule

Thursday, May 6 10 a.m. - 6 p.m. Friday, May 7 8 a.m. - 5 p.m. Saturday, May 8 8 a.m. - 1 p.m.

Exhibitors	Booth #
Aseptico	613
ASI Medical	631
Biolase Technology	
Blackwell-Munksgaard I	
Brasseler USA	231
CamSight Company	
Carl Zeiss Surgical	
Centrix	
Citi Health Card	
CK Dental Specialties	
Coltene/Whaledent	414
Dentrix Dental Systems	823
Dentsply Gendex	
Dentsply International	501. 601
Dentsply Maillefer	601
Dentsply Professional	
Dentsply Rinn/MPL	
Dentsply Tulsa	
Designs for Vision	801
Dexis Digital X-Ray	
Diadent Group International	
Discus Dental Software	110
DogBreath Software	
Endo Shopper	
EndoSolutions	
Endo Technic	
Endo Trak	
Endoco	
Endodontic Practice Journal	
Endure Medical	
Essential Dental Systems	720
Franklin Dental Supply	
Global Surgical	
Hartzell & Son, G	
HealthFirst	
HPSC Financial Services	209
Hu-Friedy Mfg.	021
Intra Flow by IntraVantage	811
J. Morita U.S.A	
Jedmed Instrument	
Jordco	
KaVo America	
Kilgore International	-
Kodak	
Lexi-Comp Publishing	
LightSpeed Endodontics	
Lightyear Technology	333
Lippincott, Williams & Wilkins I	Dog Aroa
Logan Dental	
Mani Medidenta International	
Meta Dental	
Metalift Crown & Bridge Remo	
Microsurgery Instruments	
Milestone Scientific	
Miltex	200

Exhibitors	Rooth :
Moller Microscopes	20000
Mosby/Saunders/Churchill	
Mustang Company	
NEO Dental International	
Nephron Dental Supply	
Obtura/Spartan	
Officite	
Oral Pathology Associates	
Orascoptic	
Osada	
Palisades Dental	
Patterson Dental Supply	
PBHS Web Site Design	
PBS Endo	
Pearson Dental Supply	
Pentron Clinical Technologies.	
Planmeca	
Practice Works/Soft Dent/Tropl	ny 313
Practicon/Laschal Surgical	
Professional Results	102
Quality Aspirators	807
Quintessence Publishing	
RGP Dental	729
Roydent Dental Products	309
Satelec/Acteon	320

Exhibitors	Booth #
Schwed Co.	100
Seiler Precision Microscopes	101
Septodont	115
Sheervision	829
Sigma Biomedics	128
SS White Burs	429
Sullivan-Schein Dental	719
Suni Medical Imaging,	831
Surgitel/General Scientific	215
SybronEndo	409
Tel-A-Patient	808
TeleVox Software	825

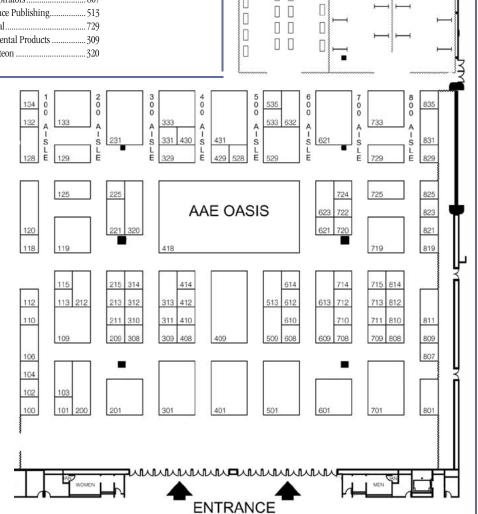
TABLE CLINICS

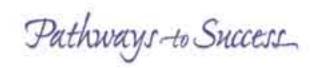
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Exhibitors	Booth #
Treloar & Heisel	Reg. Area
Ultradent Products	329
U.S. Jaclean	112
U.S. Navy Recruiting	110
Vipersoft	821
Vista Dental Products	125
Visual Endodontics	712
Willamette Dental	113
Xélan	812
Zirc	310

POSTER RESEARCH PRESENTATIONS





### Aseptico, Inc.

8333-216th St. S.E. Woodinville, WA 98072 425/487-3157

### **ASI Medical, Inc.**

14550 E. Easter Ave., Suite 700 Englewood, CO 80112 303/766-3646

### **Biolase Technology, Inc.**

981 Calle Amanecer San Clemente, CA 92673 949/361-1200

### Blackwell Munksgaard Publishing Co.

2121 State Ave. Ames, IA 50014 515/292-0140

### **Brasseler USA**

One Brasseler Blvd. Savannah, GA 31419 912/925-8525

### **CamSight Company. Inc.**

3345 Wilshire Blvd., Suite 707 Los Angeles, CA 90010 877/477-2580

### **Carl Zeiss Surgical**

One Zeiss Drive Thornwood, NY 10594 800/442-4020

### Centrix. Inc.

770 River Road Shelton, CT 06484 800/235-5862

### Citi Health Card

5726 Marlin Road, Suite 101 Chattanooga, TN 37411 877/354-8337

### **CK Dental Specialties, Inc.**

1407 N. Batavia, Suite 110 Orange, CA 92867 714/639-6990

### **Coltene/Whaledent**

235 Ascot Parkway Cuyahoga Falls, OH 44223 800/221-3046

### **Dentrix Dental Systems**

727 E. Utah Valley Drive, Suite 500 American Fork, UT 84003 801/763-9300

### **Dentsply Gendex**

901 W. Oakton St. Des Plaines, IL 60018 800/769-2909

### **Dentsply International**

218 Dew Drop Road York, PA 17402 717/741-9056

### **Dentsply Maillefer**

5100 E. Skelly Drive Tulsa, OK 74135 800/622-1202

### **Dentsply Professional**

1301 Smile Way York, PA 17404 800/800-2888

### **Dentsply Rinn/MPL**

1212 Abbott Drive Elgin, IL 60123 800/323-0970

### **Dentsply Tulsa**

5100 E. Skelly Drive Tulsa, OK 74135 800/662-1202

### **Designs for Vision. Inc.**

760 Koehler Ave. RonKonKoma, NY 11779 800/345-4009

### **Dexis Digital X-ray**

460 Seaport Court Redwood City, CA 94063 888/883-3947

### **Diadent Group International**

11-3871 N. Fraser Way Burnaby, BC V5J F5G6 Canada 604/451-8851

### **Discus Dental Software**

8550 Higuera St. Culver City, CA 90232 800/442-9448

### **Dog Breath Software**

6440 Lusk Blvd., Suite D110 San Diego, CA 92121 858/558-3636

### **Endo Shopper, Division** of Becker Parkin

450 West 33rd St. New York, NY 10001 800/613-7707

### **EndoSolutions**

581 Davies Road York, PA 17402 800/215-4245

### **Endo Technic**

6151 Dez Cerro Blvd. San Diego, CA 92120 877/477-8899

### **Endo Trak**

8929 University Center Lane, Suite 209 San Diego, CA 92122 858/558-0222

### Endoco. Inc.

5180 Park Ave., Suite 160 Memphis, TN 38119 901/683-6677

### **Endodontic Practice Journal**

1 Hertford House Farmclose Sherley Herts, United Kingdom 4.4192385177e+011

### **Endure Medical. Inc.**

1455 Ventura Drive Cumming, GA 30040 800/736-3873

### **Essential Dental Systems**

89 Leuning St. South Hackensack, NJ 07606 201/487-9090

### Franklin Dental Supply, Inc.

123 Garfield St. Garden City, NY 11530 800/972-7917

### **Global Surgical Corporation**

3610 Tree Court Industrial Blvd. St. Louis, MO 63122 800/767-8726

### Hartzell & Son. G.

2372 Stanwell Circle, P.O. Box 5988 Concord, CA 94520 925/798-2206

### **HealthFirst Corporation**

22316 70th Ave.W., Unit A Mountlake Terrace, WA 98043 425/771-5733

### **HPSC Financial Services**

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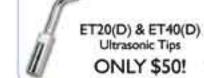
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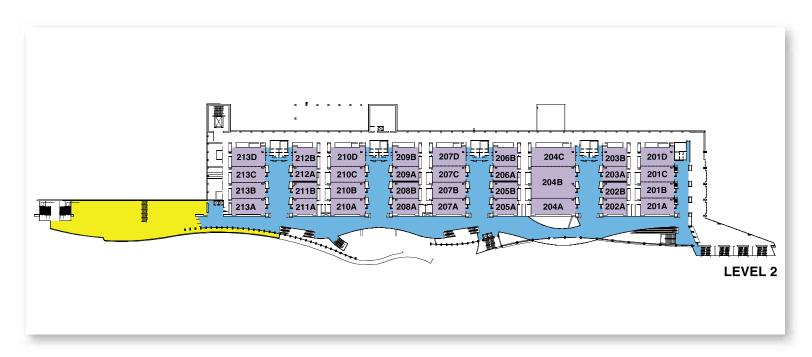
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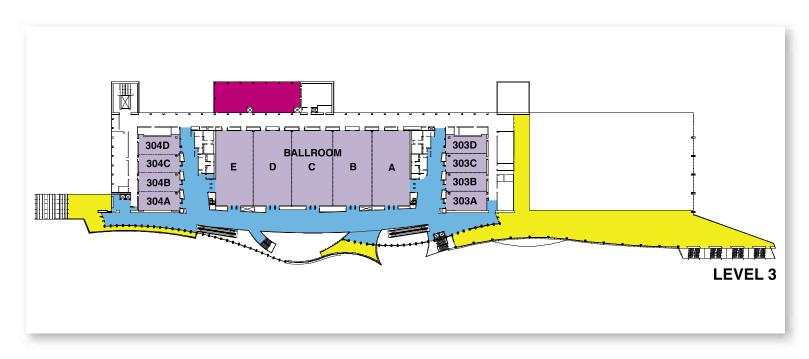


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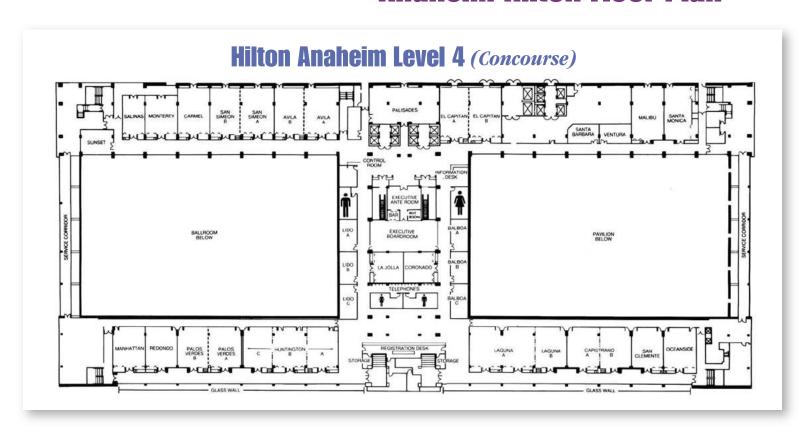
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Monts, M. Scott.

Moses, Kyle D.

Newton, Carl W.

Noblett, W. Craig

Mortman, Rory E.

Mumpower, Samuel J.



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# Future Annual Session Dates

### 2005

Dallas, Texas

Wyndham Anatole Dallas April 6 – 9

### 2006

Honolulu, Hawaii

Hawaii Convention Center March 29 – April 1

### 2007

Philadelphia, Pennsylvania

PHILADELPHIA CONVENTION CENTER
APRIL 25 – 28

### 2008

Vancouver, British Columbia, Canada

Vancouver Convention and Exhibition Centre April 9-12

### 2009

Orlando, Florida

Gaylord Palms Resort and Convention Center April 29 - May 2

### 2010

San Diego, California

San Diego Convention Center April 14-17