

Meeting the Challenge  
of the Next Century



ATLANTA

American Association of Endodontists  
56th Annual Session





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The statements and opinions expressed at the AAE Annual Session are solely those of the individual speakers. Their statements and opinions do not reflect any endorsement by the American Association of Endodontists.



## President's Welcome

**W**elcome to Atlanta as we "Meet the Challenge of the Next Century" together!

This year's power-packed program covers the widest variety of endodontic topics available anywhere under one roof. Whether you're new to endodontics or long experienced, you'll find a plethora of sessions to challenge you.

Ken Spolnik, General Chair, and the Annual Session Committee of Fred Goodman, Terry Propper, Shep Goldstein, Kirk Coury, Gary Backlund, Van Himel, Hal Goodis and Glenn Paulk developed an enticing educational program for endodontists, staff members and students.

Southern hospitality awaits you in the sprawling metropolis fondly known as "The Big Peach." The Local Arrangements Committee with Tim Grubb as Chair assembled historical, cultural and other tours for those who want to see Atlanta from various vantage points. They created restaurant and sports activity guides for those with varied tastes. Denise Grubb coordinated the AAE Alliance functions. Rikki Bell, Alliance President, Rebecca Funderburk and Carol Cooke will present the Second Annual Silent Auction at the Welcome Reception.

Our wonderful AAE staff deserves our heartfelt thanks. Under the direction of Irma Kudo, they continue to enthusiastically provide coordination and organization to the myriad of events, sessions, exhibits, meals and countless other details that compose our annual session. Bill Masheter always gives us the best in audio and visual effects for our speakers and events.

Enjoy the camaraderie, the education, and the sights and sounds of Atlanta. The greatest endodontic meeting in the world is now underway!

**Carl W. Newton, DDS, MSD**  
President



# AAE Board of Directors



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## Annual Session Committee



**Kenneth J. Spolnik**  
General Chair



**Fredric Goodman**  
Program Chair



**Timothy A. Grubb**  
Local Committee Chair

### Program

Continuing Education.....	Shepard S. Goldstein
General Interest.....	Gary A. Backlund
Limited Attendance Sessions.....	Terryl A. Propper
Auxiliary (Staff) Sessions.....	Kirk A. Coury
Oral and Poster Research Presentations....	Van T. Himel
Table Clinics.....	Harold E. Goodis
Exhibits.....	Glenn L. Paulk

### General Arrangements

Hospitality.....	Christopher Glass
Hosts.....	Alan T. Goodman
Monitors.....	Les H. Kravitz & Robert J. Michelich
Signs.....	Richardson M. Odum
Sports.....	W. Joel Newsom, III
AAE Alliance.....	Denise M. Grubb



## General Information

The Atlanta Marriott Marquis Hotel is the Headquarters Hotel for the 56th Annual Session.

### AAE Headquarters Office

#### Consulate Room

AAE Staff manage the office from 7 am - 6 pm, Tuesday through Saturday.

### Attire

Atlanta offers a mild climate with temperatures ranging from the high to mid-70s and a low of mid-40s. Business attire is recommended for Atlanta. Some restaurants require jackets and ties. The President's Dinner Dance is black tie optional.

### Badges

Badges must be worn at all official AAE functions.

### CE Certificates

A CE Certificate of Completion and instructions are included in your registration packet. Keep the original AAE CE Certificate of Completion in your file in case of audit or send to your state board *if required*. The AAE is an ADA CERP recognized provider.



### President's Dinner Dance

Purchase of a voucher does not guarantee seating. To reserve seats for the President's Dinner Dance, exchange your voucher for a banquet ticket at the AAE Dinner Dance Registration Desk **before 5 pm, Thursday, April 22**. If you wish to have group seating, you must present a voucher for each person in your group; all vouchers must be presented at the same time. **Each table seats 10 people, and seats are reserved on a first come, first served basis.** No exceptions will be made. There will be tables reserved for singles (without significant others).

### Registration

#### Imperial Ballroom Foyer

Registration hours:

Tuesday, April 20	3-8 pm
Wednesday, April 21	7 am-8 pm
Thursday, April 22	7 am-5 pm
Friday, April 23	8 am-5 pm

### Registration Fees

Registration fees and categories include the following:

[Note that the AAE Auxiliary has changed its name to the AAE Alliance. **The AAE's new membership category for dental staff is Auxiliary.\***]

#### AAE member (excluding Student and \*Auxiliary members)

Wednesday .....	Welcome Reception
Thursday .....	Opening Session Breakfast, all sessions and exhibits
Friday .....	Continental Breakfast, Coolidge Luncheon, all sessions and exhibits
Saturday .....	Continental Breakfast, Award Luncheon, one voucher to the President's Dinner Dance, all sessions and exhibits
Sunday .....	Farewell Breakfast

#### AAE Student member

Welcome Reception, all sessions, exhibits and Award Luncheon on Saturday.

#### Nonmember professional and nonmember student

Welcome Reception, all sessions and exhibits.

#### Auxiliary member, nonmember dental assistant or nonmember office administrator

All sessions, exhibits and Friday and Saturday breakfasts and luncheons.

#### Spouse/companion

Welcome Reception, all sessions and exhibits. Includes \$35 for AAE Alliance membership dues.

#### Children (six and up)

Welcome Reception

### Support the Exhibitors

#### International Hall

Please stop by, see the latest in products and services, and say thanks to the exhibitors who help defray part of your annual session costs. The number of presentations has been reduced on Saturday to allow more time for attendees to visit the exhibits. Badges must be worn in the exhibit hall. Complimentary coffee service will be provided on Thursday, Friday and Saturday in the exhibit hall.

Exhibit hours:

Thursday, April 22	10 am-6 pm
Friday, April 23	8 am-6 pm
Saturday, April 24	8 am-1 pm

### Atlanta Restaurant and Sports Activity Guide

A detailed guide to Atlanta including restaurants, nightlife and local sporting events has been prepared by the Local Committee. (Reservations for restaurants are recommended.)

### Web Site Demonstration

AAE Online will be demonstrated in the AAE Information Center in the Exhibit Hall. Stop by to see the new features added since last year or for a full demonstration. General information about going online and using the Internet will also be available.

### Assistance for the Disabled

If special assistance, dietary requirements or other arrangements are required, please see Patt Moskal at the AAE Headquarters Office in the Consulate Room in the Atlanta Marriott Marquis Hotel.

### Smoking Policy

For the comfort and health of all attendees, smoking is not permitted at AAE functions or exhibits. This includes all scientific, clinical, general interest, staff and LAS sessions, breakfasts, luncheons, Welcome Reception and the President's Dinner Dance.





## General Information

### Special Events

#### Welcome Reception

**Wednesday, April 21, 6:30-8:30 pm**  
**Marquis Ballroom**

Meet and greet friends, old and new. The reception will be earlier and the fare lighter to give you the opportunity to enjoy an evening out on the town. Refer to the enclosed restaurant guide for excellent dining suggestions. The Alliance will host the Second Annual Silent Auction.

#### Opening Session Breakfast

**Thursday, April 22, 8-10 am**  
**Marquis Ballroom**

AAE President Dr. Carl W. Newton will present the keynote address.

#### Louis I. Grossman Memorial Luncheon Sponsored by the College of Diplomates

**Thursday, April 22, 12:30-1:45 pm**  
**Imperial Ballroom A**

Endodontists that were Board-certified during 1998 will be recognized and awarded a Diplomate pin by the American Board of Endodontics at this luncheon sponsored by the College of Diplomates. Donald A.B. Lindberg, MD, Director of the National Library of Medicine, will give the keynote address on healthcare informatics in the millennium.

#### Edgar D. Coolidge Luncheon

**Friday, April 23, 12 noon-1:45 pm**  
**Imperial Ballroom**

The program features the presentation of the Edgar D. Coolidge Award.

#### Award Luncheon

**Saturday, April 24, 12 noon-2 pm**  
**Imperial Ballroom**

The Edward M. Osetek Educator Award and Honorary Membership will be presented as well as graduate student awards for oral and poster research presentations and table clinics.

#### President's Dinner Dance

**Saturday, April 24,**  
**7:30 pm-Midnight**  
**Marquis Ballroom**

Join friends and colleagues for an elegant evening of fine dining and dancing (black tie optional).

### Speaker AV Ready Room

#### Calgary Room

Program presenters are encouraged to review their audiovisual materials in the speaker ready room prior to their presentations to avoid possible equipment problems.

### Teach'em, Inc.

#### Tape Recording

#### Marquis Ballroom Foyer

Teach'em, Inc. will record many of the sessions presented. The audio tapes are available for purchase in the registration area of the Atlanta Marriott Marquis Hotel. Other audio taping is allowed only with the permission of the speaker.

### Treloar & Heisel, Inc.

#### Insurance Questions

#### Imperial Ballroom Foyer

Treloar & Heisel has been the endorsed administrator of insurance programs for the AAE for more than 20 years. Stop by their booth in the registration area for answers to your insurance questions.

### Future Meeting Dates

#### 57th Annual Session

#### Honolulu, Hawaii

March 29-April 2, 2000

#### 58th Annual Session

#### New Orleans, Louisiana

March 28-April 1, 2001

#### 59th Annual Session

#### Chicago, Illinois

April 10-14, 2002

### AAE Career Opportunities

#### Exchange

(Registration Area)

### Silent Auction

The AAE Alliance will be sponsoring a silent auction to benefit the AAE Foundation at the Welcome Reception Wednesday night.

### Commemorative Tote Bags

You may be one of five lucky winners of free registration for the 2000 Annual Session in Hawaii! You will receive a voucher for a free tote bag commemorating the AAE's 56th Annual Session with your registration packet. Bring your voucher to the AAE Information Center in International Hall (Exhibit Hall) to receive your complimentary tote bag and see if you're a winner.



The American Association of Endodontists does not endorse any product or service exhibited at the Annual Session except MBNA America, issuer of the AAE affinity credit card; Lippincott Williams & Wilkins, publisher of the *Journal of Endodontics*; Treloar & Heisel, Inc. for AAE-sponsored insurance programs; and Direct Vision Software, Inc. for *Endo-Vision*™ practice management software.



## Continuing Education Course

Marquis Ballroom II, III and IV

### Differential diagnosis of nonodontogenic toothache



Carlson



Gremillion



Hargreaves



Okeson

Charles R. Carlson, PhD, Lexington, KY  
Henry A. Gremillion, DDS, Gainesville, FL  
Kenneth M. Hargreaves, DDS, PhD  
San Antonio, TX  
Jeffrey P. Okeson, DMD, Lexington, KY

Moderator: Shepard S. Goldstein, DMD  
Framingham, MA

Differential diagnosis of orofacial pain is an extremely challenging aspect of the dental practice. The complexity of the neural network involving the cranio cervical region establishes an environment for much diagnostic confusion. Many conditions exist that may mimic odontogenic or masticatory pain. Appropriate treatment and/or referral is predicated upon accurate identification of these diseases, syndromes and clinical conditions. This presentation will provide a review of current basic concepts of pain mechanisms, pathways and referral patterns in the head and neck. Clinical presentations of conditions that commonly create diagnostic confusion will be discussed. A protocol for systematic evaluation, diagnostic testing, including diagnostic anesthesia, will be suggested.

At conclusion, each participant should be able to:

- Understand common neuropathways and neurotransmitters that are responsible for orofacial pain.
- Recognize and differentiate common orofacial pain disorders that may clinically present as a toothache.
- Understand the mechanisms responsible for pain referral in the orofacial structures.
- Be able to differentiate pain of nonodontogenic origin from true odontogenic origin.
- Understand the clinical and psychological considerations of orofacial pain associated with the experience of a chronic toothache.

### Program Schedule

**7:30 am**—Breakfast

Imperial Ballroom

**8:15 am**—Welcome & Introduction.  
(Goldstein and Okeson)

**8:30 am**—Neurophysiological considerations of orofacial pain.  
(Hargreaves)

- Describe the neurobiology of odontogenic pain.
- Describe the neuromechanisms responsible for odontogenic pain.
- Gain a greater understanding of recent research findings related to neurochemistry of pain.

**9:50 am**—Break

**10:20 am**—Mechanisms of referred pain and clinical considerations of differential diagnosis. (Okeson)

- Describe the neuromechanisms responsible for referred pain in the orofacial structures.
- Understand the importance of differentiating the site of pain from the source of pain.
- Describe a clinical protocol that will identify the true source of pain.

**11:40 am**—Lunch

Imperial Ballroom

**12:45 pm**—Orofacial pain disorders that may mimic toothache.  
(Gremillion)

- Recognize cervical and masticatory conditions that may mimic toothache.
- Recognize vascular, neurologic and psychologic factors involved in orofacial pain.
- Gain greater understanding of dentistry's role in the diagnosis and management of orofacial pain.

**2:00 pm**—Break

**2:30 pm**—Psychological considerations for the management of chronic orofacial pain. (Carlson)

- Briefly discuss the essential foundations for psychological management of chronic facial pain.
- Describe the unique features of chronic facial pain that may influence treatment outcomes.
- Identify the psychological management strategies available to assist in the treatment of chronic facial pain and discuss effective application or referral procedures.

**3:45 pm**—Panel discussion and case reports. (All)

**4:30 pm**—Adjournment.

### Preregistration only

Limited space—No on-site registration.

### Wednesday, April 21 Schedule

7:30 am ..... \*Breakfast  
8:15am ..... Introduction  
8:30 am ..... Program  
9:50 am ..... \*Break  
10:20 am ..... Program  
11:40 am ..... \*Lunch  
12:45 pm ..... Program  
2:00 pm ..... \*Break  
3:45 pm ..... Discussion  
\*Imperial Ballroom





**Wednesday, April 21**

**Welcome Reception**

**6:30-8:30 pm**

Marquis Ballroom (by ticket only)

The Welcome Reception will feature a lighter fare at an earlier time to give you the opportunity to enjoy a night on the town. Business casual attire is appropriate. Refer to the enclosed Restaurant and Sports Activity Guide for restaurant and night club suggestions. The Alliance will host the Second Annual Silent Auction, benefitting the AAE Foundation.

**Thursday, April 22**

**Opening Session Breakfast**

Marquis Ballroom (by ticket only)

**8-10 am**



Keynote: Carl W. Newton, DDS, MSD  
President, American Association of Endodontists

**Exhibits**

International Hall

**10 am-6 pm**

**District Caucuses**

**10-10:45 am**

**District I\*\***

CT, DC, ME, MA, PA, PR, RI, VT, VA  
Yukon Room

**District II**

NJ, NY  
Danube Room

**District III\*\***

FL, GA, NC, SC, Public Health, Air Force, Army, Navy, Veterans Administration  
Rio Grande Room

**District IV\*\***

IL, IN, KY, MI, OH, TN, WV, WI  
McKenzie Room

**District V**

AL, AZ, AR, CO, IA, KS, LA, MN, MO, MT, NE, NM, OK, TX, UT  
Thames Room

**District VI\*\***

AK, CA, HI, OR, WA  
Cabinet Room

\*\* These districts will nominate their candidates to the Board of Directors for a three-year term beginning April 2000.

**Affiliate Leadership Conference**

Amsterdam Room

**10:45 am-12 noon**

AAE Affiliate officers and AAE committee chairs are invited to attend this briefing on current AAE issues and activities.

**Clinical Session 1**

Marquis Ballroom IV

Moderator: Kevin T. King, DDS

Chicago

**Changing the practice of endodontics crown-down and nickel-titanium**

**11 am-12:30 pm**



\*James B. Roane, DDS, MS  
Oklahoma City

Each participant should be able to describe the advantages of a crown-down cleaning and shaping technique and understand that nickel-titanium affords a more biological approach during routine endodontic care. At conclusion, each participant should be able to:

- Describe the procedure for shaping a canal system from the access to the apex.
- Describe the advantages of shaping before progressing to the apex.
- Describe how crown-down may be used with nickel-titanium instruments to reduce the risk and consequences of separated instruments.
- Describe how incremental shaping can efficiently produce a tapering conical canal shape and facilitate fitting of the gutta-percha obturation points.

\*Speaker serves as a consultant and/or has a commercial interest in subject matter.

**Clinical Session 2**

Imperial Ballroom, Salon B

Moderator: H. Robert Steiman, DDS

Detroit, MI

**The nuts and bolts of the surgical operating microscope**

**11 am-12:30 pm**



Kim



Rubinstein

Syngcuk Kim, DDS, PhD, Philadelphia

Richard A. Rubinstein, DDS, MS

Farmington Hills, MI

This program is designed for the endodontist who has yet to enter the world of microscopic endodontics. Course participants should come prepared with candid questions for both panelists. At conclusion, each participant should be able to:

- Understand how the surgical operating microscope works in surgical and nonsurgical endodontics.
- Be familiar with the various configurations, components and accessories provided on the microscopes which are available for the practice of microscopic endodontics.
- Be familiar with the similarities and differences of the various brands of microscopes available to endodontists.
- Understand the importance of and what to look for when considering a microscopic training program.

**General Interest 1**

Copenhagen/Stockholm Room

Moderator: Neil W. Bryant, DMD

Seattle, WA

**Computer basics: Taking the mystery out of computers**

**11 am-12:30 pm**



Sharon S. Jablon, MS  
New York

Each participant should gain an understanding of basic computer components and terminology and an awareness of what is presented on the Windows computer screen. At conclusion, each participant should be able to:

- Understand computer buzzwords.
- Describe the function of hardware and software components.



- Understand how to initiate a program.
- Be ready to take the next step—a computer class.
- Be comfortable investigating computer software for the dental office.

- Understand the treatment of flare-ups.
- Evaluate appropriate treatment regimens to reduce the likelihood of flare-ups.

### Limited Attendance Sessions

Limited seating. NO standing permitted.

#### LAS 1—Trinidad/Madrid Room Endodontics on rare and endangered wild animals 11 am-12:30 pm

James C. McGraw, DDS, Medina, WA  
William D. Powell, DDS, MS, Knoxville, TN

This presentation will advise and inform endodontists and staff of the role that the specialty of endodontics plays in assisting zoo veterinary medical teams in saving rare and endangered wild animals in the zoo environment. It will also describe the equipment and instruments necessary for exotic animal dentistry and will highlight a variety of interesting cases. Attendees will be encouraged to volunteer their efforts at zoos, wildlife parks and sanctuaries where there is a need. At conclusion, each participant should be able to:

- Understand that zoos play a crucial role in saving wild animals worldwide.
- Demonstrate the spectrum/range of exotic animal dentistry.
- Serve on zoo veterinary medical teams to provide crucial care that helps save endangered species, a significant role in wildlife conservation.
- Realize that dental trauma and pulpal pathology are common problems for captive zoo animals.
- Stimulate interest in conservation of rare and endangered species.

#### LAS 2—Bonn Room Endodontic flare-ups 11 am-12:30 pm

David C. Brown, BDS, MDS, MSD  
San Francisco

This presentation will cover the clinical diagnosis, treatment and prevention of endodontic flare-ups. Current clinical concepts and relevant classical and recent literature will be presented. At conclusion, each participant should be able to:

- List the causes of flare-ups and predict the clinical cases in which a flare-up is a distinct possibility.

#### LAS 3—London/Zurich Room Complications in periradicular surgery 11 am-12:30 pm

Lowell R. Graves, DDS, MDS  
Silverthorne, CO

The objective of this presentation is the comprehension of some complications associated with periradicular surgery and their prevention. At conclusion, each participant should be able to:

- Understand the more common complications found in periradicular surgery.
- Know some uncommon but severe complications and how to prevent them.

#### LAS 4—Savoy/Rhine Room Apical control—mastering our domain 11 am-12:30 pm

David B. Rosenberg, DDS, Vero Beach, FL

The ability to achieve consistent apical control is one characteristic that differentiates endodontics on the specialist level from the general dentist level. This seminar will describe techniques that allow for maximum apical control. At conclusion, each participant should be able to:

- Understand cleaning, shaping and irrigation techniques needed for apical preparation in various anatomical situations.
- Understand techniques used for regaining apical control in previously treated teeth or when procedural errors have occurred.
- Understand custom fitting and placement of “master cones” for mastery in complex cases.

This session will not be taped.

### Oral Research Presentations I

Graduate Student Section  
Tigris Room

Moderator: Timothy A. Svec, DDS  
Houston

#### 11 am Effect of chlorhexidine on IL-6 induction by LPS

Keith M. Aibel, DMD (presenter)  
R. Stevens, Temple Univ.

#### 11:15 am Effect of cryogenic treatment on wear resistance of endodontic stainless steel files

Dina Anooshiravani, DMD (presenter)  
K. White, T. Svec & J. Powers  
Univ. of Texas at Houston

#### 11:30 am Effectiveness of gutta percha tracing sinus tracts as a diagnostic aid in endodontics

Lynne A. Baldassari-Cruz, DDS (presenter)  
R. E. Walton, Univ. of Iowa

#### 11:45 am Use of vital stains in evaluation of bacterial viability in infected dentin

David C. Beachler, DDS (presenter)  
W. Cook & K. Safavi, Univ. of Connecticut

#### 12 noon Evaluation of diamond coated ultrasonic instruments for root-end preparation

Paul D. Brent, DDS (presenter)  
L.A. Morgan, J.G. Marshall &  
J.C. Baumgartner, Oregon Health Sciences Univ.

#### 12:15 pm Porphyromonas endodontalis and symptoms from teeth with endodontic infections

Sandra R. Makkar, DDS (presenter)  
R. Nissan, D. Wilkinson, M.Sela &  
R. Stevens, Temple Univ.

### Dinner Dance Voucher Exchange

Gather your friends and exchange your seating vouchers for dinner tickets to the President's Dinner Dance **no later than 5 pm, Thursday, April 22**. This year, each table seats 10 people, so make arrangements early to enjoy this enchanting evening of sumptuous food, dancing and splendor.



**Louis I. Grossman Memorial Luncheon**

Imperial Ballroom, Salon A (by ticket only)  
Sponsored by the College of Diplomates

Moderator: M. Lamar Hicks, DDS, MS  
Jenkintown, PA

**Healthcare informatics:  
A millennialist's view**



**12:30-1:45 pm**  
Keynote: Donald A.B. Lindberg, MD  
Director, National Library of Medicine

As a pioneer in the field of healthcare informatics, Dr. Lindberg will address information technology, the future of that discipline, and what contribution it will make across the panoply of healthcare in the millennium.

**Scientific Session 1**

Trinidad/Madrid Room  
Moderator: Stanley M. Baer, DMD  
West Orange, NJ

**Magic shadows—Digital diagnosis for endodontists**

**2-5 pm**



Analoui



Miles

\*Mostafa Analoui, PhD, Indianapolis  
Dale A. Miles, DDS, MS, Indianapolis

This presentation will cover the fundamentals of digital radiography including recent developments and their applications in endodontics. Learn the principles of digital imaging and image processing and dental applications for digital images to improve diagnosis. At conclusion, each participant should be able to:

- Know the fundamentals, advantages and disadvantages of digital radiography.
- Understand the effective use of imaging technology and image processing.
- Comprehend the applications of digital radiography in endodontics.
- Describe current digital x-ray systems.
- Explain the difference between a CCD and a PSP digital imaging system.

- Describe important electronic image processing tools and how they might be employed to improve disease detection.
- Describe the application of image processing tools to improve periapical radiographic changes associated with pulpally-involved teeth.

**Clinical Session 3**

Marquis Ballroom II  
Moderator: Van T. Himel, DDS  
Memphis, TN

**New technologies vs. new science**

**2-5 pm**



Camp



Himel



Maggio



McSpadden



Schwartz



Senia

Joe H. Camp, DDS, MSD, Charlotte, NC  
\*Van T. Himel, DDS, Memphis, TN  
\*Joseph D. Maggio, DDS, Oak Brook, IL  
John T. McSpadden, DDS, Chattanooga, TN  
\*Stephen F. Schwartz, DDS, MS, Houston  
\*E. Steve Senia, DDS, MS, San Antonio, TX

How do we learn about new technologies that are introduced to endodontics? Each aspect of endodontics, including private practice, education, organized endodontics, ethics, marketing and manufacturing, should be able to approach, control and utilize changes in technology in an effective and scientific manner. Learn how to incorporate new endodontic technology into the practice and what to do with outdated technology. At conclusion, each participant should be able to:

- Reassess the impact of technology on the practice of endodontics.
- Discuss the practitioner's role in incorporating new technology into his/her practice.
- Redefine technology as it relates to science.
- Regain some control over the direction of technology.

\*Speaker serves as a consultant and/or has a commercial interest in subject matter.

**Clinical Session 4**

Marquis Ballroom IV  
Moderator: Joel L. Dunskey, DDS  
Boston, MA

**Perceptions vs. science: One-step endodontics**



**2-5 pm**

Martin Trope, BDS, DMD  
Chapel Hill, NC

Each participant should recognize the requirements for successful endodontic treatment. He/she should recognize the biological and bacteriological differences between teeth with or without apical periodontitis in terms of meeting these treatment requirements. The dentist should understand evidence-based strategies for treatment success. One-step treatment has many potential advantages. It is less expensive, very well accepted by patients and in fact has been shown to result in a lower flare-up rate. The perception is that this treatment approach offers the same or even better long-term success than multi-visit treatments. Do the scientific facts back up this perception? At conclusion, each participant should be able to:

- Differentiate the canal status between teeth with or without apical periodontitis.
- Understand the requirements for predictable endodontic success.
- Understand how each step in endodontic treatment contributes to achieving the requirements for success.
- Differentiate between perception and fact for the successful treatment of teeth with or without apical periodontitis.

**Visit the Exhibits**

Be sure to stop by International Hall to see the latest in products and services and to thank the exhibitors who help defray part of your annual session cost.

**Need a Break?**

Complimentary coffee will be provided in the exhibit hall on Thursday and Friday at 10:30 am and 2:30 pm and on Saturday at 10:30 am.



**Clinical Session 5**

Imperial Ballroom, Salon B  
Moderator: Irving Fried, DDS, MA  
New York

**Molar and atypical endodontic microsurgery**

**2-5 pm**



Kim



Rubinstein

Syngcuk Kim, DDS, PhD, Philadelphia  
Richard A. Rubinstein, DDS, MS  
Farmington Hills, MI

This program is designed to illustrate the importance of the surgical operating microscope and related armamentarium and microsurgical technique in the management of molar and atypical endodontic microsurgery. At conclusion, each participant should be able to:

- Describe the associative armamentarium and microsurgical technique used in endodontic surgery.
- Understand the microsurgical management of the maxillary sinus and the mental foramen.
- Understand the benefits of barrier techniques including calcium sulfate, ceramics and polylactic acid in treating endo-perio defects and large bony lesions.
- Understand the new protocol of tooth replantation when microsurgery is not possible due to anatomical or health reasons.
- Be familiar with important basic and clinical research findings in regard to molar microsurgery.

**Dinner Dance**

Gather your friends and exchange your seating vouchers for dinner tickets to the President's Dinner Dance **no later than 5 pm, Thursday, April 22**. This year, each table seats 10 people, so make arrangements early to enjoy this enchanting evening of sumptuous food, dancing and splendor.

**Clinical Session 6**

Copenhagen/Stockholm Room  
Moderator: Paul M. Vanek, DDS, MS  
Toronto, Canada

**Restorative management of endodontically treated teeth**

**2-5 pm**



Gluskin



Southard



Strassler

Alan H. Gluskin, DDS, San Francisco  
Denny W. Southard, DDS, MSD, Tulsa, OK  
\*Howard E. Strassler, DMD, Baltimore

This session will concern itself with current restorative management in endodontic rehabilitation. At conclusion, each participant should be able to:

- Recognize the importance of the dentin-root complex and the science of restoration strategies in success and failure of post systems.
- Appreciate the sound biologic relationships between apical and coronal seals in endodontic rehabilitation and the value of immediate cores as an extension of the endodontic seal.
- Understand new techniques and new generation materials in the restoration of non-vital teeth.
- Appreciate the role of radicular bonding in new systems usage.
- Better utilize available new technologies in root and crown as well as the structurally weakened tooth with transilluminating posts, reinforcing fabrics and high technology ceramics.

This session will not be taped.

**Badges**

Badges must be worn at all official AAE functions.

**Taping**

Audio and video taping are allowed only with permission of the speaker.

**General Interest 2**

Marquis Ballroom I  
Moderator: Andre K. Mickel, DDS, MSD  
Beachwood, OH

**Stress management**

**2-5 pm**



Stephen F. Goodman, DDS  
New York

Each participant should be able to describe the principles in examining, treating or referring a patient who presents with signs of stress exhibited in the oral mucosa. At conclusion, each participant should be able to:

- Understand the current concepts of physical, emotional and hormonal stress on the oral tissues.
- Evaluate various clinical parameters and utility for determining periodontal health.
- Provide appropriate treatment or referral.



Henry Solomon, MD  
New York

Each participant should be able to understand the many kinds of stress that affect each of us and the measures available to reduce and manage that stress. At conclusion, each participant should be able to:

- Understand that stress has many "faces" that can interact in a negative way.
- Comprehend that oxidative stress, hemodynamic stress and neurohormonal stress all contribute to cardiovascular stress.
- Know that each kind of stress is manageable and that overall risk can be maintained.



Valerie Werter, MS, RD, LD  
Mamaroneck, NY

Each participant should understand the relationship between food and stress. At conclusion, each participant should be able to:

- Understand basic principles of good nutrition and good eating behaviors.
- Identify stress-induced eating behaviors and understand how to change those behaviors.
- Identify appropriate substitute behaviors instead of eating.



**Limited Attendance Sessions**

Limited seating. NO standing permitted.

**LAS 5—Bonn Room  
Retreatment: Clinical review of principles and techniques**

**2-3:15 pm**

Eugene A. Pantera, Jr., DDS, MS  
Buffalo, NY  
Hesham M. Tagouri, DMD, MDS  
Snyder, NY

This program will present a perspective of endodontic retreatment that includes principles, diagnosis and materials used. At conclusion, each participant should be able to:

- Describe the historical concepts of endodontic retreatment.
- Review the materials and instrumentation that have been used and are currently popular for endodontic retreatment.
- Diagnose patients requiring endodontic retreatment and give a relative prognosis.
- Review several technical procedures using clinical cases as examples.

**LAS 6—London/Zurich Room  
How to start a new endodontic practice**

**2-3:15 pm**

James M. Blaney, DDS, MSD  
Gainesville, FL

Each participant should be able to describe the steps involved in opening a new endodontic practice. At conclusion, each participant should be able to:

- Describe considerations in picking a practice location.
- Describe the steps involved in obtaining financing and equipment.
- Describe the procedures necessary for effective pre-opening marketing.
- Describe procedures for hiring staff.

**LAS 7—Chablis/Picard Room  
Estate planning**

**2-4 pm**

Steven M. Schanker, Esq., New York

This presentation will explain how you can put more money to work for you and your family. Learn how to minimize taxes, maximize financial security and maybe even help your favorite charity.

**LAS 8—Bonn Room  
Diagnostic technique to assist the diagnosis of referred pain**

**3:30-5 pm**

Asgeir Sigurdsson, DDS, MS  
Chapel Hill, NC

The educational objective of this presentation is to review the neuromechanisms and present the most common referral patterns of referred pain from a tooth with acute, symptomatic pulpitis. In addition, the scientific basis for and clinical procedure of a new diagnostic technique that can assist the location of a tooth with referred pain will be presented. At conclusion, each participant should be able to:

- Describe the main neurological pathways responsible for referred pain from a tooth with symptomatic pulpitis.
- Describe the most common pain referral patterns from teeth with symptomatic pulpitis.
- Perform a new diagnostic test that could be used in a case when more commonly used diagnostic tests fail to reveal the offending tooth.

**LAS 9—London/Zurich Room  
How to start a new endodontic practice (continued from LAS 6)**

**3:30-5 pm**

\*Albert C. Goerig, DDS, MS, Olympia, WA

This program is designed for endodontic residents, recent graduates or any endodontist who is starting or has recently purchased an endodontic practice. At conclusion, each participant should be able to:

- Understand the unlimited possibilities of an endodontic practice.
- Develop a vision and philosophy of practice.
- Understand the business of endodontics.
- Know how to market a new practice.
- Know the secrets of high net profit.
- Know how to hire and empower an incredible office team.
- Understand what new technology is needed.

\*Speaker serves as a consultant and/or has a commercial interest in subject matter.

**Oral Research Presentations II**

Graduate Student Section  
Tigris Room

Moderator: Sandra Madison, DDS, MS  
Asheville, NC

**2 pm**

*Evaluation of regional bond strengths of resin cement to endodontic surfaces*  
Bruce A. Gaston, DDS (presenter)  
D.H. Pashley, L.A. West & F.R. Liewehr  
US Army Dental Activity

**2:15 pm**

*Sealing ability of compomers vs. traditional apical retrofilling materials*  
Bill D. Greer, DDS (presenter)  
L.A. West, F.R. Liewehr & D.H. Pashley  
US Army Dental Activity & Medical College of Georgia

**2:30 pm**

*Macrophage cytokine production by T cell stimulation—its role in inflammation*  
Ravi S. Koka, DDS (presenter)  
T. Petr, F.R. Gound & H. Makkawy  
Univ. of Nebraska

**2:45 pm**

*Effect of endodontic filling materials on fetal bovine bone formation in vitro*  
Steven J. Muraski, DMD, MS (presenter)  
S.W. Whitson, C.J. Nielsen,  
D.E. Bowers & J.F. Hatton  
St. Louis Univ. & Southern Illinois Univ.

**3 pm Break**

**3:15 pm**

*Increased density of gutta-percha using a controlled heat instrument with lateral condensation*  
Edward A. Nelson, DDS (presenter)  
F. R. Liewehr & L.A. West  
US Army Dental Activity

**3:30 pm**

*Modulation of replacement root resorption*  
Geoffrey Okada, DDS (presenter)  
K.R. Wright, M. Torabinejad & L.K. Bakland  
Loma Linda Univ.

**3:45 pm**

*Comparison of diagnostic accuracy of digital imaging and E-speed film in the detection of periapical bone lesions*  
Susan B. Paurazas, DDS, MS (presenter)  
J.R. Geist, M.P. Hoehn, F. E. Pink & H.R. Steiman, Univ. of Detroit Mercy





### 4 pm

*Measurement of endodontic file lengths: A density profile plot analysis of digital images*

Michael E. Piepenbring, DMD, MS (presenter)

B. J. Potter, R.N. Weller & R.J. Loushine  
Medical College of Georgia

## Oral Research Presentations III

Endodontist Section  
Sydney Room

Moderator: Keith V. Krell, DDS, MS  
Des Moines, IA

### 2 pm

*Assessing caries, cracks and leakage in restored teeth*

Paul V. Abbott, MDS (presenter)  
Univ. of Melbourne, Australia

### 2:15 pm

*Evaluation of the cutting efficiency of St. St. and Ni-Ti files using balanced force and passive step-back techniques*

Ismail I. Elsharif, BDS, MSc, PhD (presenter)  
T.M. Islam & W.A. Khodier  
Elazhar Univ., Egypt

### 2:30 pm

*Cytokine expression in periapical lesions of LPS hyporesponsive and normal mice*

Ashraf Fouad, DDS, MS (presenter)  
A.W. Acosta, Univ. of Connecticut

### 2:45 pm

*Efficacy of an experimental sealer assessed in vivo*

Shimon Friedman, DMD (presenter)  
R. Komorowski, W. Maillet, R. Klimaite  
H.Q. Nguyen & C.D. Torneck  
Univ. of Toronto & Dalhousie Univ.

### 3 pm Break

### 3:15 pm

*Anesthesia and heart rate effects of the supplemental IO injection of etidocaine and 3% mepivacaine*

Eric Gallatin, DDS, MS (presenter)  
P. Stabile, A. Reader, M. Beck & J. Weaver  
Ohio State Univ.

### 3:30 pm

*Cytotoxicity of six endodontic materials using the <sup>51</sup>Cr release method*

Mehmet O. Gorduysus, DDS, PhD (presenter)  
M. Gorduysus, M. Ercan & I. Etikan  
Hacettepe Univ., Turkey

### 3:45 pm

*Evaluating three Ni-Ti file systems*

Mohamed M. Khalefa, BDS, MSc, PhD (presenter)  
I.I. Elsharif, Elazhar Univ., Egypt

### 4 pm

*Changes in root canal geometry after preparation assessed by high resolution computed tomography*

Ove Peters, DDS (presenter)  
A. Laib, B. Mayer & F. Barbakow, Univ. of Zurich, Switzerland

### 4:15 pm

*Influence of different sterilization procedures on the bending moment of stainless steel and nickel-titanium root canal instruments*

Benjamin M. Briseno, DDS (presenter)  
B. Willershausen, Johannes Gutenberg Univ., Germany

### 4:30 pm

*Histological evaluation of repair after mechanical furcation perforation in dogs' teeth using a bioresorbable membrane beneath a resin modified glass ionomer*

Mohamed A. Salman, BDS, MS (presenter)  
N. Claffey, Ministry of Health, Bahrein & Trinity College, Dublin

## Open Forum

Marquis Ballroom III

Moderator: Philip W. Cohen, DDS, MS  
Livonia, MI (Committee Chair)

### Ad Hoc Committee on Endodontic Software

#### 2-4 pm

The committee will meet to discuss endodontic office software issues, including the AAE-endorsed practice management software, *Endo-Vision98™*. AAE members and their staff are encouraged to attend and provide input on these important matters for the specialty.

If currently available dental office software products are not meeting all your needs, the committee would like to hear your thoughts. Suggestions from members and their staff on improvements to *Endo-Vision98™* will also be welcomed.

This session will not be taped.

\*Speaker serves as a consultant and/or has a commercial interest in subject matter.

## College of Diplomates

Savoy/Rhine Room

Moderator: M. Lamar Hicks, DDS, MS  
Jenkintown, PA

### Mentoring Workshop and Annual Business Meeting

#### 2-5 pm

Leif K. Bakland, DDS, Loma Linda, CA  
Stuart B. Fountain, DDS, MS, Greensboro, NC  
M. Lamar Hicks, DDS, MS, Jenkintown, PA  
Thomas O. Mork, DDS, Oconomowoc, WI  
Martha E. Proctor, DDS, MS, Chicago  
Eric M. Rivera, DDS, MS, Iowa City, IA  
Louis E. Rossman, DMD, Philadelphia  
Edward J. Strittmatter, Jr., DDS, Centreville, VA

## Friday, April 23

### Continental Breakfast

Imperial Ballroom (by ticket only)

#### 8-8:45 am

### Exhibits

International Hall

#### 8 am-6 pm

### Clinical Session 7

Marquis Ballroom I

Moderator: Kirk A. Coury, DDS, MS  
Amarillo, TX

### Medical emergencies in the endodontic office

#### 9 am-12 noon



\*Robert C. Bosack, DDS  
Oak Lawn, IL

Each participant should be able to easily remember and implement guidelines for the prevention, diagnosis and treatment of medical emergencies in the office. At conclusion, each participant should be able to:

- Anticipate and possibly avert emergencies through the use of several core questions to gain insight into medical history.
- Describe the pathophysiology and simple treatment protocols (without IV access) for syncope, angina, asthma, allergy, diabetes, seizures and stroke.
- Discuss the management of accidental aspiration/ingestion of foreign materials.





**Programs**

**Clinical Session 8**

Marquis Ballroom II

Moderator: James L. Gutmann, DDS  
Dallas

**Management of apical third**

**9 am-12 noon**



Buchanan



Walton

\*L. Stephen Buchanan, DDS, Santa Barbara, CA  
Richard E. Walton, DMD, MS, Iowa City, IA

Each participant should be able to understand the anatomy, physiology and histology of the apical third and related periradicular tissues and how these interrelate and are impacted by preparation and obturation. Participants should be able to:

From Dr. Buchanan's presentation:

- Understand the importance of treating to full apical and lateral extents and short/long term ramifications of procedures extended to and beyond root canal systems and understand clinical problems attendant to short treatment of root canal systems, vital or necrotic.

From Dr. Walton's presentation:

- Understand why, biologically, instruments and materials should be confined to the canal space; describe consequences of over-preparation and overfill as to prognosis and post-treatment sequelae; and discuss techniques to confine materials to canal space.

**Clinical Session 9**

Copenhagen/Stockholm Room

Moderator: Jeffery Linden, DMD  
New York

**The endodontist's role in dental trauma**

**9 am-12 noon**



Leif K. Bakland, DDS  
Loma Linda, CA

In this presentation, the participant will learn methods for retaining traumatized teeth, understand the importance of maintaining pulp vitality in immature teeth and learn how to apply a multidisciplinary team approach effectively to the management of trauma patients. Each participant should be able:

- Fit the management of dental trauma patients into a busy practice.
- Recognize short and long-term effects of trauma to teeth.
- Determine optimal treatment approaches for dental injuries.
- Identify types of root resorptions and select appropriate treatment for each.
- Predict expected outcomes for dental traumatic injuries.
- Recommend for patients the best preventive measures.

**General Interest 3**

Marquis Ballroom IV

Moderator: Maureen L. Swift, DDS, MSD  
Seattle

**Using software and digital radiography to create the *paperless and filmless office***

**9 am-12 noon**



Khademi



Quan

\*John A. Khademi, DDS, MS  
San Leandro, CA

\*Lester J. Quan, DDS, San Francisco

With new computer software and hardware, the pieces are in place to eliminate paper records and film-based radiographs. This presentation will walk through a patient encounter, highlighting the computer software and hardware used in recording the referral call, registering the patient, scanning film radiographs, cataloging patient signs and symptoms, documenting treatment performed and generating a large format case report with high quality images. At conclusion, each participant should be able to:

- Identify the elements of the state-of-the-art digital operator (and office).
- Answer the six key questions before incorporating high technology.
- Select the ideal clinical peripherals for optimal ergonomics.
- Identify key features for a reliable extensible and fault tolerant system.
- Quickly and easily have office staff assemble high quality, large format case reports.
- Address the "special challenges" of computers in the operator.

**General Interest 4**

Trinidad/Madrid Room

Moderator: Bruce C. Smith, DMD, MS  
Oak Harbor, WA

**Practice transitions**

**9 am-12 noon**



\*Gary Wiser, DMD, MS, MBA  
Perrineville, NJ

Each participant will learn the necessary steps for a transition when an associate joins a practice, a partnership is formed or practices are merged, acquired or sold. At conclusion, each participant should be able to:

- Describe the essential contents of an associate's employment agreement, a partnership agreement and a practice purchase agreement.
- Describe the various options available to the dentist when considering an associate or a partner.
- Describe the steps necessary for a successful practice sale.

**Staff Session 1**

Marquis Ballroom III

Moderator: Gary M. Shetler, DDS  
Baton Rouge, LA

**Strategic team building: Decrease the stress and increase the fun and profits in your endodontic practice**

**9 am-12 noon**



Dumas



van Dyk

Christine Dumas, DDS, Marina del Ray, CA  
William A. van Dyk, DDS, San Francisco

This course will allow dentists and staff to analyze the management philosophy, strategies and techniques of America's most successful Fortune 500 corporations, as well as America's most successful dental practices. At conclusion, each participant should be able to:

- Learn hands-on techniques and tools to help your team members become enthusiastic "ambassadors" for your dental practice.
- Understand how to develop and emphasize the value of traditions and rituals to provide team members with feelings of dedication and commitment.



- Learn how to communicate a practice image that becomes a point of pride for your team members and a business asset to you.
- Comprehend recruitment and interviewing strategies to identify superior performers.
- Learn new ways to balance ongoing training for clinical skills and training for interpersonal skills.

**Limited Attendance Sessions**

Limited seating. NO standing permitted.

**LAS 10—London/Zurich Room**  
**Noninstrumentation technique for cleansing root canals**  
**9-10:15 am**

John C. Mills, DMD, MA, Birmingham, AL

Each participant should be able to understand noninstrumentation technology for cleansing root canals *in vivo* and *in vitro*. At conclusion, each participant should be able to:

- Understand the technology involved.
- Appreciate the potential benefits of noninstrumentation cleansing.
- Understand its potential application in endodontics.

**LAS 11—Chablis/Picard Room**  
**The pulp, the radical, the crown and the space they used to occupy: Endodontic management of severe coronal-radicular breakdown**  
**9-10:30 am**

\*C. John Munce, DDS, Santa Barbara, CA

Each participant will understand the concept of canal projection and its implementation in unique new techniques for management of severe coronal breakdown, internal irregularities, canal obstructions and other complexities. At conclusion, each participant should be able to:

- Describe the clinical steps involved in the pre-endodontic canal projection process as it applies to the management of severe coronal breakdown and gross internal irregularities.
- Describe new methods for bypass and/or removal of canal obstructions by way of additive techniques and/or by way of variably-sized dead-soft adhesive tubular techniques.

- Describe a method of reducing the risk of coronal fracture in endodontically treated teeth between visits and following endodontic therapy.
- Describe a more predictable method of sealing secondary portals of exit, particularly furcal and peri-orifice POEs by facilitating elongated waves of condensation.

**LAS 12—Savoy/Rhine Room**  
**On target with electronic canal length**  
**9-10:15 am**

Stephen M. Weeks, DDS, Chicago

Each participant should be able to more confidently incorporate electronic canal length determination into the daily practice of endodontics. Achieve a better understanding of the operating principles, strengths and weaknesses and devices currently available. At conclusion, each participant should be able to:

- Discuss the pitfalls of historical length determination methods.
- Describe the basic theory of electronic length-determining devices, the three “generations” of this technology and their relative merits.
- Better evaluate and compare manufacturers’ claims.
- Describe applications other than simple length determination, as well as some newer devices integrating length determination and canal preparation.

**LAS 13—London/Zurich Room**  
**Mandibular anesthesia and the intraosseous injection**  
**10:30-11:45 am**

Al Reader, DDS, MS, Columbus, OH

Each participant will identify the factors involved with failure of the inferior alveolar nerve block and describe how to overcome this failure by using intraosseous anesthesia. At conclusion, each participant should be able to:

- Identify the factors involved with clinical failure of the inferior alveolar nerve block.
- Describe the steps and procedures for obtaining profound pulpal anesthesia by using intraosseous anesthesia.

**LAS 14—Savoy/Rhine Room**  
**Anatomy of a perfect root-end surgery—Don’t focus too closely**  
**10:30-11:45 am**

Julian Moiseiwitsch, BDS, PhD  
 Chapel Hill, NC

Anatomy of the craniofacial structures should only rarely be a factor in the decision of whether or not to perform a root-end surgery. With careful planning and good surgical technique, normal anatomical variation should not influence the treatment options offered to the patient. At conclusion, each participant should be able to:

- Be familiar with the neurovascular supply to the orofacial structures.
- Be familiar with the proximity of the root apices to the nasal cavity and paranasal sinuses.
- Demonstrate the importance of planning the surgical approach in advance.
- Demonstrate alternative flap designs to improve visualization of surgical site while reducing the risk of injury to associated structures.
- Be familiar with the importance of individual patient variability.

**LAS 15—Chablis/Picard Room**  
**What is new or unchanged in shaping the pulp cavity?**  
**10:45 am-12 noon**

Yoshiro Shoji, DDS, DSc, Tokyo

This presentation will cover the important steps to prepare access cavity and root canals in endodontics, from the ergonomic viewpoint of the interrelated forms of pulp cavities to dentists’ treatment and instruments used. At conclusion, each participant should be able to:

- Recognize that all crown surfaces of teeth have the landmarks correlating with the pulp cavities. These landmarks are useful in providing a quick and accurate approach to pulp cavities.
- Understand what kinds of concepts, procedures and instruments should be combined to prepare the root canals from the viewpoint of ergonomics.

\*Speaker serves as a consultant and/or has a commercial interest in subject matter.



**LAS 16—Amsterdam Room**  
**Nickel-titanium rotary instrumentation in everyday practice**  
**11 am-12:30 pm**

Gianluca Gambarini, DDS, Rome, Italy

Each participant should understand how endodontic instruments interact with the tooth during the shaping process, in order to improve quality, efficiency and predictability of root canal preparation. At conclusion, each participant should be able to:

- Understand the advantages and limitations of nickel-titanium rotary instrumentation.
- Select the most appropriate preparation technique to minimize iatrogenic errors.
- Select the most appropriate irrigation technique for nickel-titanium rotary instrumentation.

**Oral Research Presentations IV**

Graduate Student Section  
 Tigris Room

Moderator: William A. Walker, III, DDS  
 San Antonio, TX

**9 am**

*Characterization of neural changes in the diabetic rat*

David C. Gruber, DDS (presenter)  
 D.E. Witherspoon & J.L. Gutmann  
 Baylor College of Dentistry

**9:15 am**

*Effectiveness of chlorhexidine in the prevention of root canal reinfection*

Seung Soo Jung, DDS (presenter)  
 K. Safavi & L. Spangberg  
 Univ. of Connecticut

**9:30 am**

*Anesthetic efficacy of 0.5% ropivacaine in maxillary infiltration injections*

Michelle A. Kennedy, DDS, MS (presenter)  
 A. Reader, M. Beck, J. Weaver & E. Gallatin  
 Ohio State Univ.

**9:45 am**

*Colonization of E. faecalis in root canal bovine dentin treated with different chlorhexidine formulations*

Bradley J. Lenet, DDS (presenter)  
 R. Komorowski, H.P. Lawrence & S. Friedman, Univ. of Toronto

**10 am**

*Pain reduction in symptomatic, necrotic teeth using an intraosseous injection of Depro-Medrol*

Eric M. Bramy, DDS, MS (presenter)  
 A. Reader, E. Gallatin, R. Nist,  
 M. Beck & J. Weaver, Ohio State Univ.

**10:15 am**

*Effects of calcium hydroxide inhibition on LPS induced release of IL-1 $\beta$  from human monocytes in whole blood*

Meryl H. Olsen, DDS (presenter)  
 P. DiFiore, S. N. Dixit & A. Veis  
 Northwestern Univ.

**10:30 am**

*Resistance of a novel root canal sealer to bacterial ingress in vitro*

Natanya Padachey, DDS (presenter)  
 J. P. Santerre, V. Patel, D. Cvitkowitz,  
 H.P. Lawrence & S. Friedman  
 Univ. of Toronto

**10:45 am Break**

**11 am**

*DNA analysis of bacteria in symptomatic endodontically treated teeth*

Nader M. Vafaie, DMD (presenter)  
 J.M. Dobeck, M.L. Warbington, S. Dibart,  
 M. Harris & Z. Skobe  
 Harvard School of Dental Medicine  
 & Forsyth Dental Center

**11:15 am**

*Localization of bacteria in periradicular lesions*

Tevyah J. Dines, DMD (presenter)  
 J.M. Dobeck, R.R. White & Z. Skobe  
 Harvard School of Dental Medicine  
 & Forsyth Dental Center

**11:30 am**

*Effect of systemic penicillin on pain in untreated irreversible pulpitis*

Douglas J. Nagle, DMD, MS (presenter)  
 A. Reader, M. Beck, J. Weaver & E. Gallatin  
 Ohio State Univ.

**11:45 am**

*Determination of periodontal ligament cell viability in long shelf-life milk products*

Thomas J. Marino, DMD (presenter)  
 J.M. Mailhot, J.C. McPherson, T.B. Buxton,  
 R.R. Runner, L. A. West & F.R. Liewehr  
 US Army Dental Activity

**Oral Research Presentations V**

Endodontist Section  
 Sydney Room

Moderator: Harold E. Goodis, DDS  
 San Francisco

**9 am**

*Evaluating chemically created mandibular periapical lesions using conventional and digital radiography*

Scott R. Makins, DDS (presenter)  
 S.A. Janse, D.A. Johnston & J. Hoover  
 Univ. of Texas at Houston

**9:15 am**

*Scanning electron microscopic study of in vivo ultrasonic root-end preparations*

J.Gordon Marshall, DMD (presenter)  
 L.A. Morgan & J.C. Baumgartner  
 Oregon Health Sciences Univ.

**9:30 am**

*Quality of root-end preparations using ultrasonic instrumentation in cadavers*

Christen J. Nielsen, DMD, MS (presenter)  
 G.J. Gray, D.B. Jenkins, J.F. Hatton,  
 & D.J. Holzmann  
 Southern Illinois and St. Louis Univ.

**9:45 am**

*Effect of eugenol-containing endodontic sealer on marginal adaptation in dentin*

Ove Peters, DDS (presenter)  
 K. Schonenberger & F. Barbakow  
 Univ. of Zurich, Switzerland

**10:00 am**

*Wall morphology and cleanliness of root-end retrograde cavity made by ultrasonic diamond instruments*

Sung Kyo Kim, DDS, MSD, PhD (presenter)  
 C.H. Lim & T.K. Kwon  
 Kyunpook National Univ., Korea

**10:15 am**

*Influence of glycerin on dissociation of calcium hydroxide in solution*

Kamran Safavi, DMD (presenter)  
 T. Nakayama, Univ. of Connecticut

**10:30 am Break**

**10:45 am**

*Durability of .04 taper rotary Ni-Ti files after simulated clinical usage*

Chomquan Tongbaiyai, DDS (presenter)  
 M. Torabinejad, Loma Linda Univ.



**11:00 am**

*Influence of root canal sealers on inflammatory reactions in cell cultures*  
 Brita Willershäusen, DDS (presenter)  
 B. Briseno, D. Schafer & W. Mann  
 Johannes Gutenberg Univ., Germany

**11:15 am**

*In vitro efficacy of microscope and dye on identifying root canals in root end resection*  
 Shue-Fen Yang, DDS (presenter)  
 J.R. Hsu, S.F. Pai & C.L. Tsai, Taipei

**11:30 am**

*Nociceptor morphology in inflamed dental pulps*  
 G. Rex Holland, BDS, PhD (presenter)  
 S.M. Al-Hadlaq, M.V.N. Narhi & P. Landry  
 Univ. of Michigan and Univ. of Turku, Finland

**PR 6**

*Comparison of shaping ability using ProFile, GT file, and Flex-R endodontic instruments in simulated canals*  
 Gin-Ichiro Hata, DDS, PhD, &  
 Manabu Uemura, DDS, PhD  
 Osaka, Japan

**PR 7**

*Post-operative pain after one- and two-visit endodontic treatment in nonvital teeth*  
 Ruy Hizatugu, DDS, Sao Paulo, Brazil

**PR 8**

*Effects of b-FGF on the hard tissue formation of the root end*  
 Noriyasu Hosoya, DMD, PhD  
 Yokohama, Japan

**PR 9**

*Comparison of root canal preparations using Pow-R, Profile and Flex-R files*  
 Noboru Imura, DDS, & Augusto S. Kato  
 Sao Paulo, Brazil

**PR 10**

*Study on the K-type file having a rectangular cross section*  
 Ichiroh Katsumi, DDS, PhD, Tokyo

**PR 11**

*Morphologic study on root resorption following the tooth re-implantation in rats*  
 Ki-Yun Kum, DDS, MSD, PhD  
 Seoul, Korea

**PR 12**

*Effect of coronal preparation methods on the apical extrusion of root canal debris*  
 Jeong Won Park, DDS, MS, Taegu, Korea

**PR 13**

*Success rate of endodontic treatment using hand 0.02 NiTi vs. 0.02 stainless steel K-files*  
 Mary T. Pettiette, DDS, Chapel Hill, NC

**PR 14**

*Coronal dye penetration of retrograde root filling materials*  
 Norihiro Sawada, DDS, PhD, Tokyo

**PR 15**

*Nonsurgical root canal retreatment in single or multiple visits*  
 Maria E. Sayago, DDS, Sao Paulo, Brazil

**PR 16**

*Endodontic or surgical therapy of periapical lesions*  
 Thomas Schwarze, DDS, Hanover, Germany

**PR 17**

*Concentrations of ProstaglandinE2, 6-keto-Prostaglandin F1  $\alpha$  and LeukotrieneB4 in pulpal and periapical lesions*  
 Won-Jun Shon, DDS, Seoul, Korea

**PR 18**

*In vitro assessment of the ability of four barrier materials to prevent coronal microleakage*  
 Fabricio B. Teixeira, MS, DDS, &  
 Caio C. R. Ferraz, DDS  
 Sao Paulo, Brazil

**PR 19**

*Histomorphometrical evaluation of the healing of the osseous defect with guided bone regeneration following apicoectomy in dogs*  
 Gosei Yoshikawa, DDS, Tokyo

**PR 20**

*Digital subtraction for longitudinal assessment in transplanted teeth*  
 Takatomo Yoshioka, DDS, PhD, &  
 Chihiro Kobayashi, DDS, PhD, Tokyo

**Poster Research Presentations**

Endodontist Section  
 International Hall

**9 am-12 noon**

**PR 1**

*Sealing ability of retrograde filling materials on a serum contaminated and noncontaminated surface: Spectrophotometric study*  
 Mr. Ilya Benjamin, Gainesville, FL

**PR 2**

*Post-operative pain after root canal treatment in symptomatic nonvital teeth*  
 Carlos E. Bueno, DDS, MS, PhD  
 Sao Paulo, Brazil

**PR 3**

*Cellular viability and integrity of P.D.L. collagen fiber of replanted teeth in dogs*  
 Ricardo Caicedo, DDS  
 Santafe de Bogota, Colombia

**PR 4**

*Variations in the susceptibility of selected microorganisms to endodontic irrigants*  
 Brenda P.F.A. Gomes, BDS, MSc, PhD  
 Sao Paulo, Brazil

**PR 5**

*Formation of biofilms by microorganisms isolated from infected root canals*  
 Masako Hasegawa, DDS, PhD, &  
 Hisashi Takizawa, DMD, PhD  
 Yokohama, Japan

**Table Clinics**

Endodontist Section  
 International Hall

**9 am-12 noon**

**TC 1**

*Orascopy update*  
 James H. Bahcall, DMD, MS, Chicago

**TC 2**

*Comparison between clinical examination and computer simulation in the diagnosis of pulpal/periradicular pathosis*  
 Mr. Paul Creer & William T. Johnson, DDS,  
 MS, Univ. of Iowa

**TC 3**

*Container-based infection control: What it can do for you!*  
 Joseph S. Dovgan, DDS, MS  
 Paradise Valley, AZ

**TC 4**

*Combined use of NiTi rotary instruments in root canal preparation*  
 Daniel Kherlakian, DDS, Sao Paulo, Brazil



**Endodontic Educators' Forum**

Bonn Room

Moderator: Ronald R. Lemon, DMD  
New Orleans, LA

**Educational technology: Financial strategies to play the game**

**9-11 am**



Hovland



Hargreaves

Eric J. Hovland, DDS, MEd, MBA  
New Orleans

Kenneth M. Hargreaves, DDS, PhD  
San Antonio, TX

At this information exchange, educators will be exposed to practical information regarding the usefulness and status of educational technology as integrated into teaching curriculums at other institutions. The program will include a discussion of special or innovative funding strategies from the viewpoint of Dean Hovland (Louisiana State University School of Dentistry) who has implemented these strategies and from Department Chair Hargreaves (University of Texas Health Science Center at San Antonio) who has started the process. Preliminary outcome assessments will be presented.

**AADS Endodontic Section Meeting**

Bonn Room

**11 am-12 noon**

**Edgar D. Coolidge Luncheon**

Imperial Ballroom (by ticket only)

Moderator: Kenneth J. Spolnik, DDS, MSD  
Indianapolis, IN



**12 noon-1:45 pm**

John I. Ingle, DDS  
San Diego, CA

The Coolidge Award is presented to a member who has actively participated in the AAE during his or her professional life, displaying outstanding leadership and exemplary dedication to dentistry and endodontics.

**Clinical Session 10**

Copenhagen/Stockholm Room

Moderator: Stuart A. Berman, DDS  
Smithtown, NY

**Perio-endo**



**2-5 pm**

Stephen F. Goodman, DDS  
New York

Overlapping symptoms, similar radiographic findings and common clinical lesions often make it difficult to distinguish between primary lesions of the pulpal and periodontal tissues. This presentation will focus on the recognition and treatment of various perio-endo problems. Periapical lesions and fractured teeth relative to current periodontal therapy and treatment planning will be discussed. At conclusion, each participant should be able to:

- Distinguish the various perio-endo lesions.
- Choose the appropriate sequence of therapy for each.
- Explore and perform tooth sectioning procedures.
- Evaluate long-term prognosis.

**Scientific Session 2**

Marquis Ballroom I

Moderator: Wallace B. Brown, DDS  
Salt Lake City, UT

**Antibiotics in endodontics**

**2-5 pm**



Walton



Harrison

**Indications, contraindications and nonindications**

Richard E. Walton, DMD, MS, Iowa City, IA

Each participant will understand the principles involved in prescribing antibiotics in different situations. The discussion will be based on literature as well as reviewing therapeutic principles of antibiotics. At conclusion, each participant should be able to:

- Describe the conditions in which antibiotics would likely be effective.
- Discuss those conditions which are not amenable to antibiotic therapy.
- Relate why antibiotics are not a substitute for appropriate treatment measures.

**The beginning of the end of the antibiotic era? Abuse of the miracle drugs!**

John W. Harrison, DMD, MS, Dallas

Each participant should be aware of the past and present abuse of antibiotics and the current problem posed by bacterial antibiotic resistance. At conclusion, each participant should be able to:

- Describe the amazingly ubiquitous nature of antibiotics in the human ecosystem.
- Describe the misuse and abuse of antibiotics in current dental and medical practice.
- Understand the full potential of the danger posed by bacterial antibiotic resistance to the entire world.

**Clinical Session 11**

Savoy/Rhine Room

Moderator: Ronald I. Deblinger, DMD  
Clifton, NJ

**No more herodontics (implants)**

**2-5 pm**



Meyers



O'Leary



Radman

John P. Meyers, DDS, Dallas  
Le Yen Thi O'Leary, DDS, Dallas  
W. Paul Radman, DDS, Dallas

This lecture is designed to show the role and integration of implants in an endodontic practice. At conclusion, each participant should be able to:

- Explain basic terminology and components of implant dentistry.
- Make diagnostic evaluations.
- Demonstrate the indications and uses of implants in endodontic practice.
- Explain some of the common complications of implants.

**Taping**

Audio and video taping are allowed only with permission of the speaker.



**General Interest 5**

Marquis Ballroom II

Moderator: Don H. Pratten, DMD  
Issaquah, WA

**Training your mate to be your fantasy date and other outrageous ideas for improving relationships**



**2-5 pm**

Joy Millis, CSP, Charlotte, NC

Each participant should have a unique and different view of current and future relationships, skills for communicating more effectively and dealing with challenges as they arise. At conclusion, each participant should be able to:

- Realize that training begins before one makes a commitment.
- Understand that everyone has a different view of relationships.
- Acknowledge that communication can make or break a relationship.
- Make the right choices in relationships.
- Understand that one's responsibility is key to one's success.
- Realize that a sense of humor is more important than sex.

**General Interest 6**

Marquis Ballroom IV

Moderator: James C. McGraw, DDS  
Medina, WA

**Office design: Integrating new technologies**

**2-5 pm**



Carr



Levin



Ludwig

Gary B. Carr, DDS, San Diego

\*Martin D. Levin, DMD, Chevy Chase, MD

\*Garrett B. Ludwig, Hartford, CT

Each attendee should be able to create a strategic technology plan to incorporate computer and imaging systems into existing and planned clinical facilities. At conclusion, each participant should be able to:

- Understand the importance of creating a positive patient and referring doctor perception of your technological sophistication while continuing to emphasize quality patient care.
- Describe design parameters of the reception, clinical and administrative areas of an endodontic office.
- Create a basic technology plan to secure training and stage purchase of equipment.

**General Interest 7**

Amsterdam Room

Moderator: Linda K. Bascom, DDS  
Kennewick, WA

**Financial planning: Solving critical financial issues with effective strategies**



**2-5 pm**

Joel M. Blau, CFP  
Chicago

Each participant should gain an understanding of financial planning basics—investment, retirement and estate tax planning—so that they are not destined to rely solely on advice from individuals who may or may not be competent or have their best interests in mind. At conclusion, each participant should be able to:

- Understand modern portfolio theory.
- Identify key points for successful retirement.
- Minimize estate taxation by using available tax credits and trust documents.

**General Interest 8**

Trinidad/Madrid Room

Moderator: Michael W. Huey, DMD  
Bremerton, WA

**How to avoid a shark's bite**



**2-5 pm**

Lawrence L. Longfelder, JD  
Seattle, WA

Dentists will learn the intricacies of a dental malpractice case. The course will provide useful information to avoid malpractice claims and how to deal with a claim once it is presented. The presentation will also discuss types and frequency of malpractice claims as well as practice

methods to avoid creating situations leading to these claims. At conclusion, each participant should be able to:

- Understand the legal process and its interaction with the dental profession.
- Comprehend practice pointers to avoid malpractice claims.
- Understand how to deal with the malpractice claims and/or suits.

**General Interest 9**

Chablis/Picard Room

Moderator: Dennis L. Meidinger, DDS,MS  
Auburn, WA

**The impending Year 2000 problem—not a myth**



**2-3:30 pm**

Sharon S. Jablon, MS  
New York

Each participant should be able to understand the Year 2000 problem, how it evolved, why we are faced with it now, how it will affect all businesses and its potential effect on our personal lives. At conclusion, each participant should be able to:

- Explain why we have a Year 2000 problem.
- Describe the potential problems faced on January 1, 2000.
- Understand how his or her practice might be affected and learn preventive steps to take.

\*Speaker serves as a consultant and/or has a commercial interest in subject matter.

The statements and opinions expressed at the Annual Session are solely those of the individual speakers. Their statements and opinions do not reflect any endorsement by the American Association of Endodontists.



## Staff Session 2

Marquis Ballroom III

Moderator: Albert M. Jowid, DDS  
Dallas

### Endodontists are from Jupiter, patients are from Pluto

2-5 pm



Dumas



van Dyk

Christine Dumas, DDS, Marina del Ray, CA  
William A. van Dyk, DDS, San Francisco

Learn seven secrets for attracting and keeping your doctor's patients in the competitive marketplace of the new millennium, including influences affecting patient choices in this era of the "vigilante consumer" and the media. Most successful companies base decisions on their understanding of clients. At conclusion, each participant should be able to:

- Help doctors build and maintain a successful endodontic practice.
- Evaluate trends in the general market place.
- Discuss the impact of "high-tech" dental advances.
- Implement simple changes to achieve the patient-oriented endodontic office.

Stay after this session for networking and light refreshments.

## Limited Attendance Sessions

Limited seating. NO standing permitted.

LAS 17—London/Zurich Room

### Bonding agents in endodontics

2-3:15 pm

David E. Witherspoon, BDS, MS, Dallas

This presentation will explore the role of bonding agents in the restoration of teeth, both nonendodontically and endodontically treated. At conclusion, each participant should be able to:

- Discuss contemporary concepts of dentin and enamel-bonding agents.
- Discuss the impact of dentin and enamel-bonding agents on pulpal tissues.
- Discuss the use of dentin and enamel-bonding agents in the restoration of endodontically treated teeth.

- Discuss the role of dentin-bonding agents in the use of resin root-end filling materials.
- Discuss the future applications of dentin and enamel-bonding agents in endodontics.

LAS 18—London/Zurich Room

### Calcium hydroxide The magic vs. reality

3:30-5 pm

Zvi Fuss, DMD, Tel Aviv, Israel

Each participant should be able to describe the rationale of using calcium hydroxide in different applications in dentistry and to look for alternatives when necessary. At conclusion, each participant should be able to:

- Describe the rationale of using calcium hydroxide as an intracanal medicament in repair of root resorption, root perforation, large periradicular lesions and in cases of large apical foramen.
- Determine when calcium hydroxide is the drug of choice in endodontic treatment for repair and when alternatives are better.

## Oral Research Presentations VI

Graduate Student Section

Tigris Room

Moderator: Robert J. Frank, DDS  
Glendora, CA

2 pm

*Comparison of varying the depth of heat application on the adaptability of gutta-percha during warm vertical compaction*

Richard S. Smith, DDS (presenter)  
R.N. Weller, R.J. Loushine & W.F. Kimbrough  
Medical College of Georgia

2:15 pm

*Accuracy of two clinical techniques to determine the size of the apical foramen*

Jeffrey A. Levin, DMD (presenter)  
D.T. Liu & Y.T. Jou, Univ. of Pennsylvania

2:30 pm

*In vitro evaluation of the cytotoxicity of dentin bonding systems and synthetic collagen matrices*

Ronald S. Wright, Jr., DDS (presenter)  
N.J. McDonald & T.F. Meiller  
Univ. of Maryland

2:45 pm

*Longitudinal microleakage evaluation of Super EBA as a root-end sealing material*

John M. Yaccino, DDS (presenter)  
W. A. Walker III, D.L. Carnes Jr. & W.G. Schindler, Wilford Hall Medical Center & Univ. of Texas at San Antonio

3 pm

*Effect of root canal obturation and/or coronal seal on the success of root canal therapy*

Douglas H. Snider, DDS (presenter)  
M. Torabinejad, H.M. Tang & L.K. Bakland  
Loma Linda Univ.

3:15 pm Break

3:30 pm

*Comparative efficacy of various rotary instrumentation systems for removing gutta-percha*

Mark V. Nearing, DDS (presenter)  
G.N. Glickman, Univ. of Michigan & Univ. of Texas at Houston

3:45 pm

*Evaluation of apical seal in straight canals after obturation using the Lightspeed sectional method*

Maria D. Santos, DDS (presenter)  
W. A. Walker III & D.L. Carnes Jr.  
Wilford Hall Medical Center & Univ. of Texas at San Antonio

4 pm

*Adhesion of glass ionomer cement sealers to bovine dentin conditioned with intracanal medicaments*

H. Anthony Chung, DDS (presenter)  
K. Titley, C.D. Torneck, H.P. Lawrence & S. Friedman, Univ. of Toronto

## Oral Research Presentations VII

Endodontist Section

Sydney Room

Moderator: Jeffrey Hoover, DMD  
Houston

2 pm

*Tissue cooling reduces BK/PGE<sub>2</sub> release of iCGRP in rat dental pulp*

Harold E Goodis, DDS (presenter)  
W.R. Bowles & K.M. Hargreaves,  
Univ. of California, Univ. of Minnesota & Univ. of Texas at Houston



**2:15 pm**

*Comparative study of the compressive apical forces applied with Flex-R and Onix-R nickel titanium files used in the balanced force technique*  
Franklin Pineda, DDS (presenter)  
S. Kuttler & G. Kaplan  
Univ. Tecnologica de Mexico

**2:30 pm**

*Adhesion of human osteoblasts to enamel matrix derivatives*  
Qiang Zhu, DDS, PhD (presenter)  
K.E. Safavi & L.S.W. Spangberg  
Univ. of Connecticut

**2:45 pm**

*Torsional properties of a new rotary NiTi file, HERO 642*  
Paul L. Calas, DDS (presenter)  
C. Comtesse & E. Deveaux  
Univ. of Toulouse & Univ. of Lille, France

**3:00 pm**

*Detection of Candida albicans in infected root canals using PCR*  
J. Craig Baumgartner, DDS, PhD (presenter)  
C.M. Watts & T. Xia  
Oregon Health Sciences Univ.

**3:15 pm Break**

**3:30 pm**

*Quantitative analysis of immunoreactive calcitonin gene-related peptide in human periapical lesions*  
Aqeel M. Al-Mosawi, BDS, MS (presenter)  
K.M. Hargreaves & M. El Deeb  
Univ. of Minnesota

**3:45 pm**

*Effects of ultrasonics and NaOCl on smear layer and debris on root canal walls*  
Fred Barbakow, BDS, MSc (presenter)  
O. Peters & B. Leu  
Univ. of Zurich, Switzerland

**4 pm**

*Pathogenesis of the internal resorption in rat molars*  
Chihiro Kondo, DDS (presenter)  
T. Aoba & I. Katsuumi  
Nippon Dental Univ., Tokyo

**4:15 pm**

*Are electronic apex locators reliable? An in vitro study*  
Benjamin M. Briseno, DDS (presenter)  
R.L. Garcia Aranda, H. Guerrero & B. Willershausen  
National Autonomous Univ. of Mexico & Johannes Gutenberg Univ., Germany

**4:30 pm**

*Analysis of internal bleaching of 255 teeth*  
Paul V. Abbott, MDS (presenter)  
Univ. of Melbourne, Australia

**4:45 pm**

*Chemical and radiographic evaluation of healing in teeth obturated with Thermafil or lateral condensation*  
Donald J. Kleier, DMD (presenter)  
K. Shibilski, B.W. Jeffers, R. Chavez, & R.E. Averbach, Univ. of Colorado

**American Board of Endodontics**

Bonn Room  
Moderator: William T. Johnson, DDS, MS  
Iowa City, IA

**2-5 pm**

**The Board Walk: Becoming a Diplomate**

Paul J. Ashkenaz, DDS, MS, Chicago  
Charles J. Cunningham, DDS  
Gainesville, FL  
Gerald N. Glickman, DDS, MS, Houston  
Gary R. Hartwell, DDS, Richmond, VA  
Billie G. Jeanonne, DDS, PhD, New Orleans  
William T. Johnson, DDS, MS, Iowa City, IA  
Marshall D. Peikoff, DMD, MSD  
Winnipeg, MB  
Martin Trope, BDS, DMD, Chapel Hill, NC

The Directors of the American Board of Endodontics will discuss the process required for Board certification. Changes in the sequencing of the examination will be outlined. Each phase of the examination process (written examination, case history portfolio and oral examination) will be discussed and suggestions provided for preparation and successful completion of each portion of the certification process. The program is designed to provide interested individuals with the opportunity to interact with the Directors and to voice concerns regarding the certification process.

**Saturday, April 24**

**Continental Breakfast**

Imperial Ballroom (by ticket only)  
**7:30-8:45 am**

**Exhibits**

International Hall  
**8 am-1 pm**

**Poster Research Presentations**

Graduate Student Section  
International Hall  
**8:30-11:30 am**

**PR 21**

*Evaluation of instrument performance and canal preparation using Rotary GT and Profile .04 ISO files in curved canals*  
Todd Barrett, DMD, & James Hiatt, DDS  
Univ. of Maryland

**PR 22**

*Odontoblast express TGF-beta and IL-1 beta mRNA in response to IFN-gamma exposure in vitro*  
Athanasia Bletsas, DDS  
Univ. of North Carolina

**PR 23**

*Human pulpal or gingival fibroblasts attached to polyglycolic acid scaffolds survive and function in vivo*  
Brian J. Buurma, DDS, Univ. of Michigan

**PR 24**

*Growth inhibition of Streptococcus milleri and Staphylococcus aureus in human serum and dental pulp after single oral dose of clindamycin hydrochloride*  
Eugene H. Choi, DDS  
Case Western Reserve Univ.

**PR 25**

*In vitro evaluation of five materials as chamber floor sealants in endodontically treated teeth*  
Sami Chogle, DDS  
Case Western Reserve Univ.

**PR 26**

*Mononuclear cell recruitment and development of lesions of endodontic origin*  
Christopher J. Douville, DDS  
Boston Univ.



**PR 27**

*Scanning electron microscope evaluation of abrasives used in conjunction with ultrasonics for cleaning of root canals*  
Nivine El-Refai, DDS  
Case Western Reserve Univ.

**PR 28**

*Comparison of radiation exposure rates necessary to produce computerized digital images and conventional radiographs*  
Kamran Foroughi, DDS, & Nick Mastromihalis, DDS  
State Univ. of New York at Stony Brook

**PR 29**

*Periradicular pathosis and the maxillary sinus: Histologic, anatomic, and radiographic evaluation*  
Heath A. Grote, DMD, Univ. of Iowa

**PR 30**

*Accuracy of Root ZX apex locator in the presence of gutta-percha solvents*  
Armen A. Hartoonian, DMD  
Case Western Reserve Univ.

**PR 31**

*Technique estimating apical constricture with K-files and NT Lightspeed rotary instruments*  
Donald T. Liu, DMD, Univ. of Pennsylvania

**PR 32**

*Effect of root canal sealers and irrigation agents on retention of preformed posts luted with a resin cement*  
Jack T. Mayhew, DMD, Univ. of Louisville

**PR 33**

*In vitro microleakage comparison of the sealing ability of amalgam alloy and Geristore when used as an incomplete vertical root fracture filling material*  
Alex K. Mihailoff, DDS  
Case Western Reserve Univ.

**PR 34**

*In vitro evaluation of three materials in the repair of artificially induced cracks in roots of teeth*  
Jayesh S. Patel, BDS  
Case Western Reserve Univ.

**PR 35**

*Scanning electron microscopic evaluation of human dentinal tubules and its relationship to dentin hypersensitivity*  
Bijan Pourjamasb, DDS  
Case Western Reserve Univ.

**PR 36**

*Frequency of fourth canals in maxillary molars located when using an operating microscope: A clinical study*  
Helen N. Sempira, DDS  
Virginia Commonwealth Univ.

**PR 37**

*Reduction of intracanal bacteria using NiTi rotary instrumentation and various medicaments*  
George B. Shuping, DDS  
Univ. of North Carolina

**PR 38**

*Effect of the surgical operating microscope to repair furcation perforations using two types of barriers under a resin ionomer*  
Ronald C. Taylor, DDS  
Case Western Reserve Univ.

**PR 39**

*Diagnosis of pulpal vitality via the Pulse Oximeter documented with histopathology*  
Kulwant S. Verraich, DDS  
Univ. of Pittsburgh

**PR 40**

*Mineral trioxide vs. Portland Cement—two biocompatible filling materials*  
Anne L. Wucherpfennig, DDS, Tufts Univ.

**Table Clinics**

Graduate Student Section  
International Hall

**8:30 am-11:30 am**

**TC 5**

*Computer software system to help teaching institutions track clinical results of treatment techniques, materials and instruments*  
Antoine L. Bluth, DMD  
Univ. of Pennsylvania

**TC 6**

*Fibromyalgia patient: A contemporary endodontic challenge*  
Tod T. Bruchmiller, DDS, & Sigrid S. Parry, DDS  
Univ. of Texas at Houston

**TC 7**

*New options in NSAID therapy*  
Ricardo M. Garza Jr., DDS, & R. Chris Campbell, DDS, Univ. of Texas at Houston

**TC 8**

*Current techniques in perforation repair*  
Mark A. Holman, DDS, & Lisa M. Anderson, DDS, Univ. of Maryland

**TC 9**

*Hybrid rotary instrumentation technique*  
Roderick M. MacIntyre, DMD, & Guido E. Costa, DMD  
Naval Dental School

**TC 10**

*Contemporary and creative management of the open apex*  
Anthony G. McNaught, BDS, & Karla A. Ham, DDS  
Baylor College of Dentistry

**TC 11**

*Effectiveness of prophylactic etodolac on post-endodontic pain*  
Eric R. Menke, DDS, West Virginia Univ.

**TC 12**

*Variations in MTA material preparation for clinical applications*  
Rita F. Ne, DDS, & Debora F. Levine, DDS  
Baylor College of Dentistry

**TC 13**

*Optimal endodontic irrigation*  
Shannon M. Neary, DMD, & Jean H. Kang, DDS  
Univ. of Pennsylvania

**TC 14**

*Ultrasonic tips and tricks*  
Joseph F. Palermo, DMD  
Naval Dental School

**TC 15**

*Evidence-based approach to the differential diagnosis of craniofacial pain based on anatomy*  
Jill Peterson, DDS, MPH, & Mercedes S. Dominguez, DDS  
Baylor College of Dentistry

**TC 16**

*Developmental anomalies of teeth and endodontic considerations*  
Chootima Ratisoontorn, DDS  
Univ. of Pennsylvania

**TC 17**

*Introduction to the use of mechanical lateral condensation for the obturation of root canals*  
Richard J. Riehm, DDS  
Univ. of Nebraska



**TC 18**

*Diagnostic tests for the "heat sensitive tooth"*

Ronald A. Sabins, DDS, &  
Adam P. Strimer, DMD  
Naval Dental School

**TC 19**

*Optimal placement of calcium hydroxide*

Rick M. Simcock, DDS  
Albert Einstein Medical Center

**TC 20**

*Challenges of tooth transplantation*

Glenn A. Trautmann, DMD, &  
Faisal A. Amir, DDS  
Baylor College of Dentistry

**TC 21**

*New method for maintaining visibility in the access cavity during lateral condensation*

Helmut Walsch, DMD  
Univ. of Pennsylvania

**TC 22**

*Avoiding misdiagnosis of lesions of nonendodontic origin associated with the roots of teeth*

W. Christopher Ward, DMD  
Albert Einstein Medical Center

**TC 23**

*Comparing gutta-percha compacted with a finger spreader and a D11T spreader*

Brian D. Watkins, DDS, &  
Carol D. Weber, DDS, Naval Dental School

**Scientific Session 3**

Marquis Ballroom IV

Moderator: Keith V. Krell, DDS, MS, MA  
West Des Moines, IA

**Patient-specific pain management and dental drug interactions**



**9 am-12 noon**

Karen A. Baker, MS, Pharm  
Iowa City, IA

Each participant should be able to prescribe narcotic or non narcotic pain therapy based on patient-specific selection criteria. Each attendee should be able to identify and avoid potentially harmful drug-drug interactions with dental medications. At conclusion, each participant should be able to:

- Discuss the relative potency of common oral narcotic combination drugs.
- Describe strategies to maximize the effectiveness of NSAIDs.
- List the drug or disease contraindications for elective dentistry.
- Discuss dental office strategies for ensuring that drug-drug interactions will be recognized and avoided.

**Scientific Session 4**

Copenhagen/Stockholm Room

Moderator: J. Craig Baumgartner, DDS, MS, PhD  
Portland, OR

**Acute endodontic pain: Mechanisms and management**

**9 am-12 noon**



Goodis



Hargreaves

Harold E. Goodis, DDS, San Francisco  
Kenneth M. Hargreaves, DDS, PhD,  
San Antonio, TX

Each attendee should be able to describe the mechanisms involved in pulpal pain and the emergency and post-procedure management of patients in acute endodontic pain. At conclusion, each participant should be able to:

- Describe the mechanisms of neurogenic inflammation and peripheral and central pulpal sensory pathways.

- Understand the emergency procedures necessary to relieve acute endodontic pain.
- Understand post-procedure pain control methods, including pharmacology of pain control.

**Scientific Session 5**

Trinidad/Madrid Room

Moderator: Charles S. Solomon, DDS  
New York

**The use of calcium sulfate in endodontics**

**9 am-12 noon**



Pecora



DeLeonardis



Ricci

\*Gabriele Pecora, DDS, Rome  
Dario DeLeonardis, DDS, Rome  
John L. Ricci, PhD, Newark, NJ

Attendees should learn the biologic properties of medical grade calcium sulfate, potential clinical applications and indications, as well as an easy technique for predictable results. At conclusion, each participant should be able to:

- Describe the biological properties of medical grade calcium sulfate as a bone repair material and its peculiarities compared to other bone substitutes.
- Describe the process of calcium sulfate replacement by bone.
- Describe appropriate clinical indications for the use of calcium sulfate.
- Describe the suggested technique for an easy procedure and predictable results.

\*Speaker serves as a consultant and/or has a commercial interest in subject matter.

**Insurance Questions?**

Treloar and Heisel has been the endorsed administrator of insurance programs for the AAE for more than 18 years. Stop by their booth on the Convention level near the AAE registration area.

**Badges**

Badges must be worn at all official AAE functions



**Clinical Session 12**

Marquis Ballroom III

Moderator: Kenneth N. Namerow, DDS  
Ridgewood, NJ

**The endoscope:  
The future is here now**

**9 am-12 noon**



Kahn



Shulman

Frederick H. Kahn, DDS, New York  
Barnet B. Shulman, DDS, New York

Each participant should be able to change his/her approach to all types of endodontic treatment procedures using the endoscope, a new, versatile, user-friendly light and magnification system. At conclusion, each participant should be able to:

- Use the endoscope for conventional endodontic treatment modalities.
- Use the endoscope to identify and locate calcified canal orifices and aid in the removal of separated instruments, silver cones and separated posts.
- Use the endoscope in all types of endodontic surgical procedures including those involving the maxillary sinus.
- Use the evolving potential of this technology in the future of endodontic therapy.

**General Interest 10**

Marquis Ballroom II

Moderator: John D. West, DDS, MSD  
Tacoma, WA

**Evolution and revolution within dentistry**

**9-11 am**



David M. Reznik, DDS  
Atlanta

Participants will understand the dynamics of external and internal forces affecting the dental profession. These forces include technology, finance (Wall Street) and the marketplace purchasers. At conclusion, each participant should be able to:

- Know where we are today, how we got there and where these forces are most likely to take us.
- Make rational business decisions to position the practice for delivery of exceptional patient care, practice stability and financial prosperity.
- Take advantage of current trends and become an agent of change rather than a victim of emotions.

**Staff Session 3**

Marquis Ballroom I

Moderator: Charles V. Tatosian, DDS, MS  
Mission Viejo, CA

**How to work in dentistry without killing each other!**

**9 am-12 noon**



Joy Millis, CSP  
Charlotte, NC

Each staff member should have better skills for understanding and communicating with doctors, patients and each other. They will learn a formula for solving problems and develop a method for getting to know others better in order to improve the quality of relationships. At conclusion, each participant should be able to:

- Understand the essential quality for success at any level of responsibility in the dental practice.
- Identify seven essential practice goals.
- Describe skills and solutions for working with difficult patients.
- Regain the passion for the profession of dentistry.

**Award Luncheon**

Imperial Ballroom (by ticket only)

Moderator: Fredric Goodman, DDS  
New York

**12:30-2 pm**



**Edward M. Osetek  
Educator Award**

David E. Witherspoon,  
BDS, MS  
Dallas

This award is given to an Active AAE Member with less than six years teaching experience for earning esteem and respect from students and faculty associates and for the impact on endodontics that former/current students have made.



**Honorary Membership  
Award**

Margaret R. Byers, PhD  
Seattle, WA

Honorary membership is presented to individuals who have made significant contributions that have furthered the advancement of endodontics.

**Graduate student awards**

Awards for oral research presentations, poster research presentations and table clinics will also be presented.

**General Assembly**

Copenhagen/Stockholm Room  
**2:30-4 pm**

**Pre-Dinner Dance Reception**

Marquis Ballroom Foyer  
Preceding the President's Dinner Dance, this annual reception will offer a cash bar.  
**6:30-7:30 pm**

**President's Dinner Dance**

Marquis Ballroom  
**7:30 pm-12 midnight**



**Sunday, April 25th**

**Farewell Breakfast**

Imperial Ballroom, Salon A  
(by ticket only)

**7:30-9 am**

**Faculty Development Seminar**

Marquis Ballroom I  
(by invitation only)

**Changes in technology in endodontics**

**8 am-3 pm**

Gerald N. Glickman, DDS, MS, Houston  
Ronald R. Lemon, DMD, New Orleans

The statements and opinions expressed at the Annual Session are solely those of the individual speakers. Their statements and opinions do not reflect any endorsement by the American Association of Endodontists.

**Board and Committee Meetings**

**Monday, April 19**

AAE Board of Directors  
8 am-5 pm ..... Bonn  
ABE Board of Directors  
8 am-6 pm ..... Thames

**Tuesday, April 20**

AAE Foundation Board of Trustees  
8 am-5 pm ..... Sydney  
Endodontic Software Committee  
9 am-4 pm ..... Bordeaux  
Continuing Education Committee  
12 noon-3 pm ..... Chablis  
Educational Affairs Committee  
2-6 pm ..... Burgundy  
Dental Benefits Committee  
3-5 pm ..... Picard

**Wednesday, April 21**

Honors and Awards Committee  
2-5 pm ..... State

**Friday, April 23**

Membership Insurance Committee  
7-8:45 am ..... McKenzie  
Clinical Practice Committee  
7:30-8:45 am ..... Rio Grande  
Editorial Board  
7:30-8:45 am ..... Cabinet  
Governmental Affairs Committee  
7:30-8:45 am ..... Yukon  
Membership Services Committee  
7:30-8:45 am ..... Thames  
Professional Standards, Peer Review and Ethics Committee  
7:30-8:45 am ..... Nile  
Public and Professional Affairs Committee  
7:30-8:45 am ..... Burgundy

**Saturday, April 24**

Past Presidents' Breakfast  
7:45-8:45 am ..... Picard

**Sunday, April 25**

AAE Board of Directors  
8 am-5 pm ..... Trinidad





## AAE Foundation



### 1999

H. Groves Cooke III, Vice President  
Ronald I. Deblinger, Treasurer  
Cindy R. Rauschenberger, Secretary  
Mr. Martin Fernholz

### 2000

Robert L. Reames  
Herbert Schilder  
John D. West

### 2001

Wayne G. Bemis  
Noah Chivian  
Gerald C. Dietz, Sr., President

### AAE Officers Serving as Trustees

Carl W. Newton, AAE President  
Harmon R. Katz, AAE President-elect  
Jeffrey W. Hutter, AAE Secretary  
Denis E. Simon III, AAE Immed. Past Pres.  
Irma S. Kudo, Executive Director (ex officio)

### Campaign Chair

Mahmoud Torabinejad

### Thank You

The Foundation Trustees extend their deepest appreciation to the generous individuals who have contributed to the Endowment for Endodontic Excellence Campaign.

## American Board of Endodontics



### 1999

Paul J. Ashkenaz  
Charles J. Cunningham  
Martin Trope

### 2000

Gerald N. Glickman  
Billie G. Jeansonne  
William T. Johnson

### 2001

Gary R. Hartwell  
Marshall D. Peikoff  
H. Robert Steiman

## Alliance of the AAE (AAAE)

### President

Enriquita "Rikki" Bell (Craig)

### President - Elect Program

Dorothy Nitta (Lawrence)

### Vice President - Registration

Debra Howard (James)

### Secretary - Tribute

Cecile Shetler (Gary)

### Treasurer - Membership/Roster

Beverly Paulk (Glenn)

### Parliamentarian - Bylaws

Bonnie Nielson (Dennis)

### Local Arrangements

Denise Grubb (Tim)

### Tuesday

3-8 pm  
Registration

### Wednesday

7 am-8 pm  
Registration

### 6:30-8:30 pm

Welcome Reception and Silent Auction

### Thursday

7 am-5 pm  
Registration

### 7-8 am

Executive Board meeting

### 8-10 am

Continental Breakfast-Chardonnay Room

### 10 am-12 noon

Networking in Atlanta program

### 1-2 pm

Lillian Pear Reception

### 2-3 pm

General Membership Business Meeting

### 3-5 pm

Networking in Atlanta program

### Friday

#### 7-8 am

1999-2000 Executive Board Meeting

#### 8 am-5 pm

Registration

#### 8-10 am

Continental Breakfast-Chardonnay Room

#### 10 am-4 pm

Networking in Atlanta program

#### 11:30 am-1:30 pm

Lunch at Pittypat's Porch Restaurant

### Saturday

#### 8-10am

Continental Breakfast-Chardonnay Room

#### 10 am-12 noon

Networking in Atlanta program

All events will be held in the AAE Alliance Hospitality Room (Chardonnay Room) with the exception of:  
Silent Auction (Marquis Ballroom)  
Friday Lunch (Pittypat's Porch Restaurant)







# Alumni, Affiliates & Other Groups

## Wednesday, April 21

Alpha Omega International Dental Fraternity Dinner,  
8 pm ..... Marquis Steakhouse  
Medical College of Georgia Endo Alumni Association Business Mtg.  
5-6 pm ..... Cabinet Room  
U.S. Army Association of Endodontists Business Meeting,  
4:30-6 pm ..... Zurich Room

## Thursday, April 22

Christian Endodontic Society Reception,  
5-6 pm ..... Nile Room  
Endo Standards Subcommittee Meeting,  
2-5 pm ..... Danube Room  
Harry J. Healey Endodontic Study Club Reception,  
6:30-8 pm ..... Savoy/Rhine Rooms  
Harvard School of Dental Medicine Reception and Dinner,  
7-10 pm ..... Riviera Room  
International Federation of Endodontic Associations Reception,  
6-7:30 pm ..... Skyline North  
MCV/VCU Endodontic Alumni Association,  
5-7 pm ..... Thames Room  
Michigan Association of Endodontists Reception,  
6:30-8:30 pm ..... Champagne Room  
NOVA Southeastern University Reception,  
7-9 pm ..... Yukon Room  
Tarheel Endodontics Association Meeting,  
5-6 pm ..... Picard Room  
Tufts University Endodontic Alumni Reception,  
6-8 pm ..... McKenzie and Rio Grande Rooms  
U.S. Navy Association of Endodontists Reception,  
6-7:30 pm ..... Skyline South  
University of New York at Buffalo Endodontic Alumni Reception,  
5-7 pm ..... State Room  
University of Connecticut Endodontic Alumni Reception,  
6:30-8 pm ..... Tigris Room  
University of Illinois Endodontic Alumni Dinner,  
6-9 pm ..... Shangri La Room  
University of Maryland Alumni Reception,  
6:30-8:30 pm ..... Chablis Room  
University of North Carolina Alumni/Tarheel Reception,  
6-7:30 pm ..... Picard Room  
University of Pennsylvania Endodontists Reception,  
6-7:30 pm ..... Amsterdam Room  
University of Pittsburgh Reception,  
6-8 pm ..... Danube Room  
University of Texas-Houston Endodontic Alumni Reception,  
6:30-8 pm ..... Cabinet Room  
University of Texas Health Science at San Antonio  
Endodontic Alumni Association Reception,  
6-7:30 pm ..... Hub Lounge  
University of Toronto Alumni & Friends Reception,  
5:30-7:30 pm ..... Chardonnay Room  
West Virginia University Endodontic Alumni,  
5:30-7 pm ..... South Hampton Room

## Friday, April 23

Albert Einstein Endodontic Alumni Society Reception,  
6:30-8 pm ..... Yukon Room  
Boston University Alumni Reception & Dinner,  
6-11 pm ..... Imperial Ballroom, B  
Florida Association of Endodontists Business Meeting,  
5-6 pm ..... McKenzie Room  
Iowa Endodontic Group Reception,  
6-8 pm ..... Danube Room  
Louisiana State University Alumni Reception,  
6:30-8:30 pm ..... Champagne Room  
New York University Endodontic Alumni Association Reception,  
6-8 pm ..... Thames Room  
Oklahoma Association of Endodontists Breakfast,  
7-8:45 am ..... Danube Room  
University of Alabama Endodontic Alumni Reception,  
6-8 pm ..... Skyline South  
University of Southern California Endodontic Alumni,  
7-8:45 am ..... Champagne  
University of Washington Alumni Reception,  
6:30-8:30 pm ..... Rio Grande Room

## Saturday, April 24

Boston University Alumni Breakfast,  
7-8:45 am ..... Yukon and McKenzie Rooms  
Endodontic Section of Triple O,  
7-8:45 am ..... Nile Room  
Michigan Endodontic Alumni Association Breakfast,  
7-8:45 am ..... Thames Room  
U.S. Air Force Endodontists Breakfast,  
7-8:45 am ..... Tigris Room  
U.S. Navy Association of Endodontists Breakfast,  
7-8:45 am ..... Sydney Room  
University of Detroit Mercy Alumni Breakfast,  
7-8:45 am ..... Rio Grande Room

## Sunday, April 25

Society for Apical Excellence Business Meeting,  
7:30-8:45 am ..... Bordeaux Room





## Exhibitors

- 433** Analytic Endodontics  
1717 W. Collins Avenue  
Orange, CA 92867
- 154** Aseptico, Inc.  
P.O. Box 3209  
Kirkland, WA 98083
- 853** ASI Medical, Inc.  
14550 Easter Avenue  
Suite 700  
Englewood, CO 80112
- 758** Astra Pharmaceuticals, LP  
50 Otis Street  
Westboro, MA 01581-4500
- 344** Becker-Parkin Dental Supply  
Company, Inc.  
450 West 33rd Street  
New York, NY 10001
- 109** Block Drug Company  
257 Cornelison Avenue  
Jersey City, NJ 07302
- 544** Brasseler USA  
800 King George Blvd.  
Savannah, GA 31419
- 649** Carl Zeiss, Inc.  
One Zeiss Drive  
Thornwood, NY 10594
- 157** Centrix, Inc.  
770 River Road  
Shelton, CT 06484
- 338** Chige, R., Inc.  
4531 N. Dixie Highway  
Boca Raton, FL 33431
- 236** Dentsply Gendex  
4379 South Howell Avenue  
Milwaukee, WI 53207
- 236** Dentsply/ MPL  
9400 King Street  
Franklin Park, IL 60131-2116
- 236** Dentsply Maillefer  
5001 East 68th Street #500  
Tulsa, OK 74136
- 236** Dentsply MidWest  
901 West Oakton Street  
Des Plaines, IL 60018
- 236** Dentsply New Image  
2283 Cosmos Court  
Carlsbad, CA 92009
- 236** Dentsply Preventive Care  
1301 Smile Way  
York, PA 17404
- 236** Dentsply Rinn  
1212 Abbott Drive  
Elgin, IL 60123-1819
- 236** Dentsply SoftDent  
7939 Honeygo Blvd., Ste. 212  
Baltimore, MD 21236
- 236** Dentsply Tulsa  
5001 E. 68th Street, Ste. 500  
Tulsa, OK 74136
- 215** Designs For Vision, Inc.  
760 Koehler Avenue  
Ronkonkoma, NY 11779
- 337** Dexis Digital X-Ray  
4117 El Camino Real  
Palo Alto, CA 94306
- 255** DiaDent  
11-3871 N. Fraser Way  
Burnaby, BC V5J 5G6
- 557** Direct Vision Software, Inc.  
1208 VFW Parkway, Ste. 200  
Boston, MA 02132
- 356** EagleSoft, a Patterson Company  
2202 Althoff Drive  
P. O. Box 1267  
Effingham, IL 62401
- 543** Endoco, Inc.  
5180 Park Avenue  
Memphis, TN 38119
- 106** Essential Dental Systems, Inc.  
89 Leuning Street  
South Hackensack, NJ 07606
- 345** F.M.C.  
524 Watford Way, Mill Hill  
London, England NW7 4SY
- 849** FiberDent Corp.  
3753 Varsity Drive  
Ann Arbor, MI 48108
- 155** FILHOL Dental  
1219-B Greenwood Road  
Baltimore, MD 21208
- 851** Garfield Dental  
Products/Refining Company  
810 East Cayuga Street  
Philadelphia, PA 19124
- 351** Global Surgical Corporation  
3610 Tree Court Industrial Blvd.  
St. Louis, MO 63122
- 657** Hartzell & Son, G.  
2372 Stanwell Circle  
P.O. Box 5988  
Concord, CA 94520
- 259** HealthFirst Corporation  
22316 70th Avenue W, Unit A  
Mountlake Terrace, WA 98043
- 749** Heraeus Kulzer, Inc.  
4315 S. Lafayette Blvd.  
South Bend, IN 46614
- 354** High Q Dental  
6302 E. Aster Drive  
Scottsdale, AZ 85254
- 445** Hu-Friedy Mfg. Co. Inc.  
3232 N. Rockwell Street  
Chicago, IL 60618
- 757** Hygenic - Coltene/Whaledent  
750 Corporate Drive  
Mahwah, NJ 07430
- 347** J. Morita USA, Inc.  
9 Mason  
Irvine, CA 92618
- 146** JEDMED INSTRUMENT COMPANY  
5416 JEDMED Court  
St. Louis, MO 63129-2217
- 537** Karl Storz Endoscopy-America  
600 Corporate Pointe  
Culver City, CA 90230
- 144** Kerr Corporation  
1717 W. Collins Avenue  
Orange, CA 92867
- 258** Kilgore International, Inc.  
36 W. Pearl Street  
Coldwater, MI 49036
- 151** Knoll Pharmaceutical Company  
3000 Continental Drive North  
Mount Olive, NJ 07828-1234
- 206** Leica Micro Systems, Inc.  
P. O. Box 123  
Buffalo, NY 14240
- 650** Lightspeed Technology, Inc.  
15600 San Pedro, Ste. 304  
San Antonio, TX 78232



# Exhibitors

- 358** Lippincott Williams & Wilkins  
227 East Washington Square  
Philadelphia, PA 19106-3780
- 117** Medidenta International, Inc.  
39-23 62nd Street  
Woodside, NY 11377
- 443** MedPro/Frontier Healthcare  
Two Depot Plaza  
Bedford Hills, NY 10507
- 256** Metalift Crown and Bridge Removal System  
7855 Jefferson Highway, Suite C  
Baton Rouge, LA 70817
- 212** Moller Microsurgical  
5500 Courseview Drive  
Mason, OH 45040
- 350** Moyco Union Broach/Thompson  
200 Commerce Drive  
Montgomeryville, PA 18936
- 852** Nephron Dental Supply  
321 E. 25th Street  
Tacoma, WA 98421
- 207** Obtura Corp/Spartan Marketing Group  
1663 Fenton Business Park Court  
Fenton, MO 63026
- 108** Orasoptic Research  
5225-3 Verona Road  
Madison, WI 53711
- 156** Osada, Inc.  
8436 W. Third Street, Ste. 695  
Los Angeles, CA 90048
- 847** Osteohealth Company  
One Luitpold Drive  
Shirley, NY 11967
- 549** Patterson Dental Supply, Inc.  
1031 Mendota Hts. Road  
St. Paul, MN 55120
- 147** Premier Dental Products Company  
3600 Horizon Drive  
King of Prussia, PA 19406
- 254** ProBusiness Systems, Inc.  
9300 Jollyville Road., Ste. 100  
Austin, TX 78759
- 158** Professional Results, Inc. - Tooth Slooth  
17 Phaedra  
Laguna Niguel, CA 92677

- 756** Quality Aspirators  
P.O. Box 382120  
Duncanville, TX 75138
- 848** Quintessence Publishing Co., Inc.  
551 N. Kimberly Drive  
Carol Stream, IL 60188
- 751** RGP Dental  
22 Burnside Street  
Bristol, RI 02809
- 850** Ribbond, Inc.  
1402 3rd Avenue, Ste. 1030  
Seattle, WA 98101
- 533** ROEKO USA  
825 S. Primrose Avenue, Ste. E  
Monrovia, CA 91016
- 535** Roydent Dental Products, Inc.  
1010 W. Hamlin Road  
Rochester Hills, MI 48309
- 551** SATELEC - AMADENT  
1236 Brace Road, Bldg. B  
Cherry Hill, NJ 08034
- 542** ScanRite Systems  
4368 Enterprise Street  
Fremont, CA 94538
- 113** Schick Technologies, Inc.  
**138** 31-00 47th Avenue  
Long Island City, NY 11101
- 159** Schwed Company  
124-02 Metropolitan Avenue  
Kew Gardens, NY 11415-2712

- 539** Seiler Instrument Company  
170 E. Kirkham Avenue  
St. Louis, MO 63119
- 342** Septodont, Inc.  
245C Quigley Blvd.  
New Castle, DE 19720
- 446** SurgiTel/General Scientific Corporation  
77 Enterprise Drive  
Ann Arbor, MI 48103
- 210** TEL-A-PATIENT, Inc.  
125 E. Baker, Ste. 140  
Costa Mesa, CA 92626

## Registration Area

- Treloar & Heisel, Inc.  
3132 Wilmington Road  
P. O. Box 5168  
New Castle, PA 16105
- 648** Trident Dental, Inc.  
Route 2, Box 251-A  
Hendersonville, NC 28792
- 257** Ultradent Products, Inc.  
505 West 10200 South  
South Jordan, UT 84095
- 444** Velopex International  
136 Main Street  
Catawissa, PA 17820
- 759** White Burs, Inc. (SS)  
1145 Towbin Avenue  
Lakewood, NJ 08701

See the latest in products and services and say thanks to the exhibitors who help defray part of your annual session costs. Fewer presentations are scheduled on Saturday to allow more time to visit the exhibits.

**Badges must be worn in the exhibit hall.** Complimentary coffee service will be provided on Thursday and Friday at 10:30 am and 2:30 pm and on Saturday at 10:30 am.

**Exhibit hours are scheduled as follows:**  
Thursday, April 22.....10 am-6 pm  
Friday, April 23.....8 am-6 pm  
Saturday, April 24.....8 am-1 pm

**AAE Information Center**  
AAE Online  
Colleagues for Excellence Program  
57th Annual Session in Hawaii  
Tote bags and Hawaii mugs  
American Board of Endodontics  
AAE Foundation

## Also in the Exhibit Hall:

Stop by the Poster Research Presentations and Table Clinics while you're in the exhibit halls. The presentation schedule follows:

**Poster Research Presentations 1-20**  
Endodontist Section  
Friday, April 23, 9am-12 noon

**Poster Research Presentations 21-40**  
Graduate Student Section  
Saturday, April 24, 8:30-11:30 am

**Table Clinics 1-4**  
Endodontist Section  
Friday, April 23, 9 am-12 noon

**Table Clinics 5-23**  
Graduate Student Section  
Saturday, April 24, 8:30-11:30 am





# Award Recipients

## Edgar D. Coolidge Award

* Edgar D. Coolidge .....	'69
* Harry B. Johnston .....	'70
* Henry A. Bartels .....	'71
* Bertram L. Wolfsohn .....	'74
* Vincent B. Milas .....	'75
Worth B. Gregory .....	'78
Jacob B. Freedland .....	'80
Alfred L. Frank .....	'81
George G. Stewart .....	'82
* F. Darl Ostrander .....	'83
* Maynard K. Hine .....	'83
* George C. Hare .....	'84
* Irving J. Naidorf .....	'85
Harry Blechman .....	'86
I.B. Bender .....	'87
Dudley H. Glick .....	'88
* Samuel S. Patterson .....	'89
Robert A. Uchin .....	'90
Michael A. Heuer .....	'91
* Edward M. Osetek .....	'92
Harold Gerstein .....	'93
Henry J. Van Hassel .....	'93
Donald E. Arens .....	'94
* Harold A. Maxmen .....	'94
Herbert Schilder .....	'95
Stuart B. Fountain .....	'96
Joseph D. Maggio .....	'97
Gerald C. Dietz Sr. ....	'98
John I. Ingle .....	'99

## Louis I. Grossman Award

* Louis I. Grossman .....	'73
* Birger Nygaard-Ostby .....	'76
I.B. Bender .....	'78
Samuel Seltzer .....	'80
Harold R. Stanley .....	'81
Kaare Langeland .....	'82
Henry J. Van Hassel .....	'84
* Melvin Goldman .....	'89
Syngcuk Kim .....	'90
Calvin D. Torneck .....	'91
Henry O. Trowbridge .....	'92
Mahmoud Torabinejad .....	'93
Herbert Schilder .....	'96

## Ralph F. Sommer Award

Calvin D. Torneck .....	'84
Alfred L. Frank .....	'85
Mahmoud Torabinejad .....	'86
John I. Ingle .....	'87
Leif Tronstad .....	'90
Jens O. Andreasen .....	'91
I.B. Bender .....	'93
Samuel Seltzer .....	'93
Goran Sundqvist .....	'94
Gunnar Bergenholtz .....	'96

\*Deceased

## Edward M. Osetek Educator Award

* Gordon D. Mattison .....	'95
Eric M. Rivera .....	'96
Asgeir Sigurdsson .....	'98
David E. Witherspoon .....	'99

## Honorary Members

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

## President's Award

Peter A. Paesani .....	'97
------------------------	-----

## Past Presidents

* W. Clyde Davis .....	'43-44
* Ralph F. Sommer .....	'44-45
* Robert G. Kesel .....	'45-46
* E.G. Van Valey .....	'46-47
* Maynard K. Hine .....	'47-48
* Louis I. Grossman .....	'48-49
* Elmer A. Jasper .....	'49-50
* Raymond L. Girardot .....	'50-51
* George G. Sharp .....	'51-52
* F. Darl Ostrander .....	'52-53
* Laurence A. Lucas .....	'53-54
* N. Weir Burkman .....	'54-55
* Harry J. Healey .....	'55-56
* John R. Pear .....	'56-57
* George C. Hare .....	'57-58
George G. Stewart .....	'58-59
* J. Henry Kaiser .....	'59-60
* Paul P. Sherwood .....	'60-61
* Glenn R. Brooks .....	'61-62

* Vincent B. Milas .....	'62-63
James H. Sherard Jr. ....	'63-64
Jacob B. Freedland .....	'64-65
* Henry S. Schmidt .....	'65-66
John I. Ingle .....	'66-67
Edwin C. Van Valey .....	'67-68
* Samuel S Patterson .....	'68-69
* Warren J. Hedman .....	'69-70
* John F. Bucher .....	'70-71
Dudley H. Glick .....	'71-72
I.B. Bender .....	'72-73
Charles A. Scott Jr. ....	'73-74
Alfred L. Frank .....	'74-75
Robert A. Uchin .....	'75-76
Frank B. Trice .....	'76-77
George A. Zurkow .....	'77-78
Harry Blechman .....	'78-79
Paul E. Zeigler .....	'79-80
* Edward M. Osetek .....	'80-81

Henry J. Van Hassel .....	'81-82
Noah Chivian .....	'82-83
Donald E. Arens .....	'83-84
Stephen F. Schwartz .....	'84-85
Herbert Schilder .....	'85-86
Michael A. Heuer .....	'86-87
Charles J. Cunningham .....	'87-88
Joseph D. Maggio .....	'88-89
Gerald C. Dietz Sr. ....	'89-90
James C. McGraw .....	'90-91
Joseph I. Tenca .....	'91-92
Stuart B. Fountain .....	'92-93
Eric J. Hovland .....	'93-94
Richard C. Burns .....	'94-95
Philip W. Cohen .....	'95-96
Jerome V. Pisano .....	'96-97
Denis E. Simon, III .....	'97-98

\* Deceased





# Participants

<b>A</b>	Abbott, Paul V. .... 11,19	Gallatin, Eric ..... 11	Linden, Jeffrey ..... 12	Rivera, Eric M. .... 11
	Aibel, Keith M. .... 7	Gambarini, Gianluca ..... 14	Liu, Donald T. .... 20	Roane, James B. .... 6
	Aimir, Faisal A. .... 21	Garza, Ricardo M. Jr. .... 20	Longfelder, Lawrence L. .... 17	Rosenberg, David B. .... 7
	Al-Mosawi, Aqeel M. .... 19	Gaston, Bruce A. .... 10	Ludwig, Garrett B. .... 17	Rossman, Louis E. .... 11
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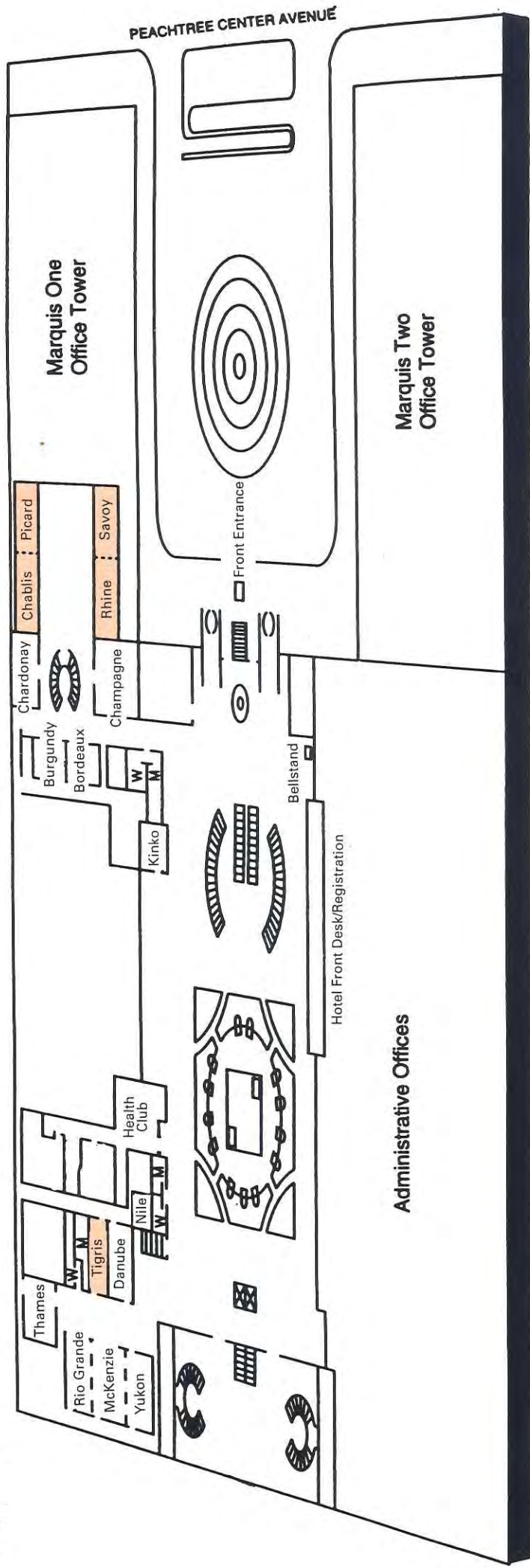
### Key

- CEC=Continuing Education Course
- CS=Clinical Session
- GI= General Interest Session
- LAS=Limited Attendance Session
- SS=Scientific Session

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# Lobby Level



# Convention Level

