American Association of Endodontists
53rd Annual Session

Focusing on Our Future Together
President's Welcome

Hi, y'all! Welcome to wonderful Dallas and the 53rd Annual Session of the American Association of Endodontists.

You will be enlightened, stimulated, and impressed with the extensive array of informational opportunities that await you. As you read through the pages of this program, you will find a plethora of events and activities to fill your days—intellectually, culturally, and restfully.

I want to thank everyone involved for the outstanding effort they have given to make this our best meeting ever. Under the leadership of Bob Steiman, general chair; Kevin King, program chair; and Bob Reames, local chair, at least 35 AAE members and staff played major roles over many months to organize and orchestrate this meeting for you. Countless others will also get involved by the time Sunday arrives. Each person's responsibility, large and small alike, contributes to the success of this meeting.

Enjoy Dallas. Enjoy the meeting. Most of all, take the time to enjoy the camaraderie of your fellow endodontists from the world over who make these meetings a joy to attend!

Have fun, relax, and learn.

Philip W. Cohen, DDS, MS
President
Annual Session Committee

Program
Continuing Education........................................Ronald W. Anderson
Limited Attendance Sessions..............................Kirk A. Coury
Oral and Poster Research Presentations.............Gerald N. Glickman
Table Clinics................................................Donald A. Miller
Exhibits.......................................................Letty Catrambone

General Arrangements
Audiovisual......................................................Bill Masheter
Hospitality.....................................................Justin E. Aurbach
Hosts.............................................................Jeffrey S. Woodson
Monitors.........................................................Hedley Rokusin
Signs.............................................................John L. Bond
Sports............................................................Thomas H. Garrett
AAE Auxiliary Liaison.....................................Marylou Gutmann
General Information

The Wyndham Anatole Hotel in Dallas is the headquarters hotel for the 53rd Annual Session.

AAE Headquarters Office
Madrid, Mezzanine Level
AAE staff manages the office from 7am–6pm, Tuesday through Saturday.

Registration
Tower Convention Registration

<table>
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<tr>
<td>Tuesday, April 23</td>
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<td>Wednesday, April 24</td>
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<td>Thursday, April 25</td>
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<td>Friday, April 26</td>
<td>8 am–5 pm</td>
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Registration fees include the following:

AAE member (excluding student members)
Wednesday: Welcome Reception
Thursday: Opening Session Breakfast, all sessions and exhibits
Friday: Continental breakfast, Award Luncheon, all sessions and exhibits
Saturday: Continental breakfast, Coolidge Luncheon, one voucher to the President’s Dinner Dance, all sessions and exhibits
Sunday: Farewell breakfast

AAE student member: Welcome Reception, all sessions and exhibits

Non-member professional & Non-member student: Welcome Reception, all sessions and exhibits

Ancillary personnel (Dental assistant or administrative personnel): All sessions, exhibits, and Friday and Saturday continental breakfast and luncheons

Spouse: Welcome Reception, all sessions, and AAE Auxiliary membership

Children: Welcome Reception

Tape Recording
Teach’em, Inc. will record many of the sessions presented and also videotape Scientific Sessions II, IV, VI, VIII, and X. The audio and video cassettes are available for purchase in the Tower Convention Registration area of the Anatole. Other audio or video taping is allowed only with the permission of the speaker.

Speaker AV Ready Room
Milan, Mezzanine Level
Program participants are encouraged to review their audiovisual materials in the speaker ready room prior to their presentations to avoid possible equipment problems.

Badges
Badges must be worn at all official AAE functions.

Assistance for the Disabled
If special assistance or arrangements are required, please make requests at the AAE Headquarters Office in Madrid.

Exhibits
Trinity Hall
Please stop by, place your orders, and say thanks to the exhibitors who help defray annual session costs. Badges must be worn in Trinity Hall. Complimentary coffee service will be provided on Thursday, Friday, and Saturday in Trinity Hall. Continental breakfast will be provided on Friday and Saturday. Exhibit hours are scheduled as follows:

<table>
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<th>Day</th>
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<tr>
<td>Thursday, April 25</td>
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<td>Friday, April 26</td>
<td>8 am–5 pm</td>
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<td>Saturday, April 27</td>
<td>8 am–1 pm</td>
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Smoking Policy
For the comfort and health of all attendees, smoking is not permitted at any AAE function. This includes all scientific and general interest sessions, breakfasts, luncheons, receptions, exhibits, and the dinner dance.

Attire
Business casual clothing is recommended for daytime wear. For evening, dress slacks, skirts, and casual dresses are appropriate. Some restaurants require jackets and ties. Black tie is optional at the President’s Dinner Dance.

President’s Dinner Dance Vouchers
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 Registration Desk before 5 pm on Thursday. 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.

This year, each table seats eight 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).

Commemorative Tote Bags
You may be one of five lucky winners of free registration for Seattle! If you registered as an AAE member, student member, non-member professional or student, or ancillary personnel you will receive a voucher for a free tote bag commemorating the 53rd AAE Annual Session when you sign in at the registration desk. Bring your voucher to the AAE Information Center in Trinity Hall to pick up your complimentary tote bag and look inside to see if you’re a winner.
The microscope in endodontics: Is it for you?

Continuing Education Course
Wednesday, April 24, 8:30 am–4:30 pm
Chantilly Ballroom West, Tower Lobby Level (by ticket only—no on-site registration)
Moderator: Ronald W. Anderson, DDS, MS, Augusta, GA

The operating microscope can provide the opportunity to enhance the practice of endodontics through improved magnification and illumination. The applications of the microscope in nonsurgical and surgical endodontic cases will be presented by Drs. Gary B. Carr and Synguk Kim, early innovators in the use of microscopes in endodontics. Dr. Richard C. Burns will also discuss how the microscope has enhanced his private practice. The intent of this didactic course is to familiarize endodontists with how the microscope can be applied to a wide variety of clinical situations in everyday practice.

7–8 am
Continental Breakfast
Chantilly Ballroom East (admittance by badge only)

8:30 am–12 noon
The microscopic approach to conventional and retreatment endodontics
Gary B. Carr, DDS, San Diego, CA

This presentation will review the newly developed techniques necessary to provide a high level of care in practicing the most difficult cases. Each dentist will understand operator setup, necessary teamwork, and the impact that the development of these skills has on private practice. At the conclusion of the presentation, each participant will:
- Understand the dramatic changes taking place in endodontic health care delivery and the effect these changes will have on private practice.
- Understand what changes need to be made to operate efficiently and productively using an operating microscope.
- Learn about all of the major technical skills that have been developed through the use of the microscope.

12 noon–1 pm
Lunch
Chantilly Ballroom East (by ticket only)

1–3:30 pm
Endodontic microsurgery:
Theory and practice
Synguk Kim, DDS, PhD, Philadelphia

This session will enable participants to incorporate microsurgical techniques into their endodontic practices. Microsurgical procedures—such as effective hemostasis, proper flap design, mental foramen management, sinus infringement, no bevel apicoectomy, and 3-mm axial retroreparation by ultrasonic tips—and the most suitable materials for retrofitting will be discussed. At the conclusion of the presentation, each participant should be able to:
- Describe the triad of endodontic surgery using the microscope—illumination, magnification, and instrumentation.
- Describe the principles of endodontic microsurgery.
- Describe the endodontic surgery procedures under the microscope.
- Describe the use of microsurgical instruments in endodontic microsurgery.
- List the best retrofitting materials.
- Describe advantages of using the microscope in endodontic surgery.

3:45–4:30 pm
How the microscope has enhanced my practice
Richard C. Burns, DDS, San Mateo, CA

This session will relate the advantages of microscopy in a practice limited to endodontics and enable participants to understand:
- Benefits enjoyed by the patient.
- Economic considerations.
- Stimulation of referrals.
- Psychological benefits derived by the doctor and staff.

Building effective relationships with patients

Wednesday, April 24
8:30 am–12 noon or 1–4:30 pm
Wyeth, Mezzanine Level
(by ticket only—no on-site registration)

Elizabeth Monroe-Cook, PhD
Oak Park, IL

A small group of peers will participate in an intensely interactive workshop and learn key skills for rapport building, active listening, information delivery, and positive negotiation with your patients. This workshop will use a variety of learning methods and provide materials to expand your understanding and skill in relating to the range of individuals you meet as patients. This session will not be taped.
Program

Wednesday, April 24

WELCOME RECEPTION
Anatole Park (adjacent to the hotel); Chantilly Ballroom, Tower Lobby Level, in case of inclement weather.
7-9 pm
(by ticket only)
Mosey on down to the AAE Corral for a warm western welcome to the 53rd Annual Session. Don your country western garb and join friends while feasting on plenty of Tex-Mex grub. Pictures with Tex the Steer will be available for $2 each. Casual, western attire is appropriate.

Thursday AM, April 25

OPENING SESSION BREAKFAST
Chantilly Ballroom East, Tower Lobby Level
8-10 am
(by ticket only)
Keynote: Philip W. Cohen, DDS, MS
President, American Association of Endodontists

EXHIBITS
Trinity Hall
10 am-6 pm

DISTRICT CAUCUSES
10-11 am
District I
CT, DC, ME, MD, MA, PA, RI, VT, VA
Obelisk B, Mezzanine Level
District II
NJ, NY
Governors Hall, Tower Lobby Level
District III
FL, GA, NC, SC, Public Health, Air Force,
Army, Navy, Veterans Admin.
Obelisk A, Mezzanine Level
District IV
IL, IN, KY, MI, OH, TN, WV, WI
Opal, Tower Lobby Level
District V
AL, AZ, AR, CO, IA, KS, LA, MN, MS, MO, NE,
NM, OK, TX, UT
Ruby, Tower Lobby Level
District VI
AK, CA, HI, OR, WA
Senators Hall, Tower Lobby Level
*These districts will nominate candidates to represent their districts on the Board of Directors for a three-year term beginning in May 1997.

AFFILIATE LEADERSHIP CONFERENCE
Metropolitan, Mezzanine Level
11 am-12 noon
AAE affiliate officers and AAE committee chairs are invited to attend this briefing on current AAE issues and activities.
Program, continued

ORAL RESEARCH PRESENTATIONS II
Graduate Student Section
Miro, Mezanne Level
Moderator: Mary T. Peiltie, DDS, Chapel Hill, NC

11 am
Evaluation of penicillin versus placebo on postoperative endodontic symptoms
Mark A. Henry (prensentor), A. Reeder, R. Nist, W. Meyers, & M. Beck, Ohio State Univ.

11:15 am
Effects of bFGF and IGF-I on healing of periodontal lesions
Thomas R. Olerhead (presenter), S. Ebeid, B. Bitner, D. Carnes, J. Gilles, H. Schilder, & D.L. Graves, Boston Univ.

11:30 am
Comparison of oral triazolam, diazepam, and placebo as outpatient premedication for endodontic patients
Daniel G. Enrich (presenter), J. Lundgren, R. Dionne, B. Nicoll, & J. Hutter, Naval Dental School & NIDR, NIH

11:45 am
An application of the McGill Pain Questionnaire in endodontics
Daniela K. Shielk (prensentor), & D. B. Green, Univ. of Louisville

12 noon
Effect of occlusal reduction on postoperative pain following endodontic instrumentation
Peter J. Babick (presenter), P. A. Rosenberg, A. Leung, C. Nup, & L. Schertzer, New York Univ.

12:15 pm
Radiographic success or failure compared with coronal restorations and radicular fillings
Jennifer M. Klein (presenter), P. Wei, A. Shaver, R. White, & M. Goldman, Tufts Univ.

LIMITED ATTENDANCE SESSIONS
Limited seating. No standing permitted. All LAS rooms are located in the Tower Lobby Level.

LAS 1—Coral
11 am-12:30 pm
Documentation with the surgical microscope
Eric J. Herbranson, DDS, MS, San Leandro, CA

This lecture will explore the use of video and film technology to document the micro-environment with the surgical microscope. The most practical and cost-effective solutions to the various output needs of the clinician will be discussed, including the integration of images with the electronic clinical record.

LAS 2—Emerald
11 am-12:30 pm
Restoration of endodontically treated teeth
James L. Gutmann, DDS, Dallas

The biology of the dentin-root complex will be integrated with scientific and clinical rationales for the restoration of endodontically treated teeth.

LAS 3—Sapphire
11 am-12:30 pm
Ask a lawyer
Jack A. Weichman, DDS, JD, Pacific Polisades, CA

This is your opportunity to ask an endodontist/attorney about problems in your office—risk management, employee relations, contracts, leases, associates, partnerships, and anything else that comes to mind.

LAS 4—Topaz
11 am-12:30 pm
The use of bioresorbable matrix barriers in endodontic surgical cases
Mario L. Zuolo, CD, Sao Paulo, Brazil

This presentation will discuss the use of a bioresorbable matrix barrier as a possible treatment to promote bone healing after surgery. Membrane design, chemical composition, and biocompatibility will be illustrated, based on current research. A surgical protocol will be suggested and the results analyzed using controlled clinical cases and histologic sections.

Commemorative Tote Bag
Exchange your tote bag voucher at the AAE Information Booth in Trinity Hall during exhibit hours, and you could be one of five lucky winners to receive free registration for Seattle! You must have a voucher to receive a tote bag.

Dinner Dance Voucher Exchange
Gather your friends and exchange your seating vouchers for dinner tickets for the President’s Dinner Dance no later than 5 pm, Thursday, April 25. This year, each table seats eight, so make arrangements early to enjoy this enchanting evening of sumptuous food, dancing, and splendor.

Thursday PM, April 25
AMERICAN BOARD OF ENDOdontICS
Louis I. Grossman Memorial Luncheon
Wedgewood, Tower Lobby Level (by ticket only)
12:30-1:45 pm
Moderator: A. Edye Skidmore, DDS, Morgantown, WV

Accessing ethics in the endodontic specialty practice

Thomas K. Hasegawa Jr., DDS, MA, Dallas

SCIENTIFIC SESSION III
Grand Ballroom D, Atrium Lobby Level
Moderator: Carl W. Newton, DDS, MSD, Indianapolis

2-5 pm
The practicing endodontist’s approach to traumatic dental injuries

Leif B. Bakland, DDS, La Jolla, CA

Update your understanding of the current management of traumatic dental injuries. At the conclusion of this presentation, you should be able to:

• Use the WHO system of classifying traumatic dental injuries to the benefit of your practice.
• Implement the concept of pulp preservation in immature teeth.
• Determine a rationale for treatment of root fractures and their complications.
• Evaluate treatment approaches recommended for luxated teeth.
• Incorporate into your practice the concepts in the AAE Guidelines for Treatment of the Avulsed Permanent Tooth.
• Provide treatment for teeth needing stabilization following traumatic dental injuries.

Attire
Business casual clothing is recommended for daytime wear. For evening, dress slacks, skirts, and casual dresses are appropriate. Some restaurants require jackets and ties. Black tie is optional at the President’s Dinner Dance.
Scientific Session IV
Chantilly Ballroom West, Tower Lobby Level
Moderator: Joseph D. Maggio, DDS, Oak Brook, IL

2-5 pm
Successful management of acute pain in the endodontic practice
Kenneth M. Hargreaves, DDS, PhD, Minneapolis
Learn the principles for diagnosing and treating acute pain. At the conclusion of this presentation, you should be able to describe:
• Diagnostic and therapeutic approaches for the five common types of acute oral pain.
• Effective pharmacological strategy that maximizes analgesia and minimizes exposure to side effects.
• New and effective approaches for managing acute pain.
Speaker serves as a consultant and/or has a commercial interest in subject matter. This session will be videotaped.

Practitioners' Platform
Metropolitan, Mezzanine Level
Moderator: James L. Gutmann, DDS, Dallas
2-3:30 pm
A forum for the discussion of unusual cases, diagnostic and treatment tips, patient management techniques, and endodontic problem-solving will be presented by a group of AAE members and colleagues. A case presentation format will encourage dialogue, challenges, and participation from the audience.

2 pm
Anatomical challenges to endodontic success
James L. Gutmann, DDS, Dallas

2:15 pm
Endodontic surgery: A solution for refractory lesions
Cledson Lima de Azevedo, DDS, Sao Paulo, Brazil

2:30 pm
Challenging endodontic cases
Jose L. Roig-Greene, DMD, Ponce, Puerto Rico

2:45 pm
Surgical case report: Ongoing problems
Deborah E. Battreum, DDS, MSc, Kelowna, Canada

3 pm
Intentional replantation of an endodontically treated mandibular second molar with cracked root repaired with MTA
Fred W. Benenati, DDS, MEd, Norman, OK

General Interest Session II
Grand Ballroom, Atrium Lobby Level
Moderator: Darrell W. Zenk, DDS, MSD, Inver Grove Heights, MN

2-2:15 pm
Third party payers: A question and answer workshop on codes and claims
Howard B. Pine, DMD, Rochester, NY

2:15 pm
A comparison of stainless steel and nickel-titanium K-files in curved root canals
Gary S.P. Cheung (presenter), A. Chan, Univ. of Hong Kong

This presentation is a discussion of current CDT-2 code updates and their application in claims submission. A question and answer session will follow to clarify the application of codes in preparing claims.

ORAL RESEARCH PRESENTATIONS III
Endodontist Section
Morocco, Mezzanine Level
Moderator: Timothy A. Svec, DDS, Houston

2 pm
Comparison of thermoplastic obturation techniques: Adaptation to the canal walls
R. Norman Wellers (presenter), W.F. Kimbrough, R.W. Anderson, Medical College of Georgia

2:15 pm
Evaluation of quick-fill root canal obturation technique
Altana A. Chohayeb (presenter), S. Hondrum, G.L. Henley, N. Glossett, D.D. Marlan, Howard Univ. and USAID

2:30 pm
Comparison of obturation techniques on filling lateral and main canals
James F. Walcott (presenter), V.T. Horak, J. Penney, W. Powell, Univ. of Tennessee

2:45 pm
Foramen enlargement and obturation level: Its influence in periodontal healing
Carlos A.F. Murgel (presenter), F.J. Souza Filho, & N. Bernardinelli, UNICAMP, Brazil

3 pm
Development and testing of a pulpal microdialysis probe, in vitro
Harold E. Goosd (presenter), & K. Soek, Univ. of California, San Francisco & Tohoku Univ., Japan

Oral Research Presentations IV
Graduate Student Section
Miro, Mezzanine Level
Moderator: Alfred W. Reader, DDS, Columbus, OH

2 pm
The use of aloe vera gel as an intracanal medicament
Hugh Maguire (presenter), M. Torabinejad, & J.D. Kettferling, Loma Linda Univ.

2:15 pm
A comparison of four instrumentation techniques on canal transportation
Jeffrey A. Short (presenter), L.A. Morgan, & J.C. Baumgartner, Oregon Health Sciences Univ.

2:30 pm
Evaluation of rotary NITI systems and conventional filing: Degree of apical extrusion
Steven D. Shoha (presenter), & G.N. Glickman, Univ. of Michigan

2:45 pm
The evaluation of corrosion in stainless steel files
Joseph T. Bars (presenter), D.A. Miller, J.R. Howard, J.L. Gilbert, & E.P. Laursen, Northwestern Univ.

continued on next page
PROGRAM, continued

ORAL RESEARCH PRESENTATIONS IV, continued

Graduate Student Section

3 pm
A comparative assessment of four root canal preparation techniques
Brian E. Hornberger (presenter), M.M. Wang, T.A. Svec, M.R. Rieger, J.R. Ludington, & G.J. Pires, Univ. of Texas at Houston

3:15 pm
Volumetric and densitometric comparison between nickel titanum and stainless steel condensation
Michelle B. Speier (presenter), & G.N. Glickman, Univ. of Michigan

3:30 pm
Effect of pre-firing on determination of working length using a fresh frozen cadaver model
James E. Stich (presenter), & M. Torabinejad, Loma Linda Univ.

3:45 pm
Do irrigants affect the precision of apex locators?
Dionne T. McGinity (presenter), D.D. Fabre, D.A. Miller, & E.P. Lauferschieger, Northwestern Univ.

4 pm
Electronic length measurement using small and large files in enlarged canals
Hung Quoc Nguyen (presenter), R.C. Komarowki, A.Y. Kaufman, & S. Friedman, Univ. of Toronto & Univ. of Tel Aviv

4:15 pm
Black-pigmented bacteria in coronal and apical segments of infected root canals
William J. Dougherty Jr. (presenter), K.S. Bev, & J.C. Baumgartner, Oregon Health Sciences Univ.

4:30 pm
Mixed anaerobic bacterial colonization and penetration of coronally unsealed, obturated, and post prepared canals
Kefah M. Bariishi (presenter), D. Drake, R. Walton, W. Johnson, & L. Wilcox, Univ. of Iowa

4:45 pm
Bacterial assay of coronal microleakage: MTA, SuperEBa, composite, amalgam restorations

LIMITED ATTENDANCE SESSIONS

Limited seating. NO standing permitted. All LAS rooms are located in the Tower Lobby Level.

LAS 5—Coral
2-3:15 pm
Clinical management of the medically compromised patient in the endodontic practice
Robert L. Ellison, DDS, MSc, Detroit

Learn the categorization and proper clinical management of patients with serious medical problems. Possible drug interactions and salient points on medical emergencies will also be discussed.

LAS 6—Emerald
3:15 pm
Magical customer service for the endodontist
Patrick T. Wohl, DMD, Wilmington, DE

An endodontist practicing within a general dental office demonstrates how to generate referrals by delivering extraordinary customer service. Increase your referral base and enjoy your career as you work in the pursuit of "Wow!"

LAS 7—Sapphire
2-3:15 pm
Biological considerations of bleaching pulps teeth
Ilana Rotstein, CD, Jerusalem

Bleaching of pulps teeth is a popular treatment for tooth discoloration. Recently, however, it has occasionally been associated with injury to the root and adjacent tissues. This complication has been reported in humans as well as in animal studies. As a result, it has been suggested that some bleaching agents and procedures should be avoided. The safety of bleaching pulps teeth will be discussed and preventive measures will be offered based on clinical and experimental studies.

LAS 8—Topaz
2-3:15 pm
Longitudinal tooth fractures: Classification, identification, and treatment
Eric M. Rivera, DDS, MS, Iowa City, IA

The purposes of this presentation will be: 1) define the longitudinal fractures encountered in endodontic therapy in terms of a classification scheme: craze lines, cuspal fracture, cracked tooth, split tooth, and vertical root fracture; 2) articulate ways to identify and accurately diagnose longitudinal fractures; and 3) discuss treatment modalities and alternatives.

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

GENERAL INTEREST SESSION III

Grand Ballroom A, Atrium Lobby Level
Moderator: Alan G. Selbst, DMD, MS, JD, Houston

3:30-5 pm

Legal aspects of dentistry and risk prevention skills

Bruce H. Selberg, DDS, MScD, JD, Syracuse, NY

Recommendations will be made for endodontists to incorporate risk prevention skill concepts into their practices, to alleviate perceived patient injury, to control patient satisfaction, and to be cognizant of liability problems. Legal aspects of dentistry that relate to malpractice, negligence, standard of care, and patient communication will be reviewed. Focus areas of the patient/doctor relationship, informed consent, and documentation will be discussed. Conclusions will include summaries of various dental legal cases. This session will not be taped.

LIMITED ATTENDANCE SESSIONS

Limited seating. NO standing permitted. All LAS rooms are located in the Tower Lobby Level.

LAS 9—Coral
3:45-5 pm
Mastering the electronic apex locator
Carl E. Hawrish, DDS, MSc, Edmonton, AB

This seminar presents the significant body of knowledge relating to the use of the electronic apex locator (EAL) in the clinical practice of endodontics, such as: 1) clinically controllable factors that affect the accuracy of EAL devices; 2) a systematic clinical approach to maximize the precision of electronic working length determination; and 3) unpublished clinical research on the use of third-generation frequency dependent EAL without the use of intra-operative radiographs to confirm working length.

With the information presented in this seminar, a dentist or endodontist can learn the skills involved in the use of the EAL and take the direct and non-stop journey to mastery of working length determination. Speaker serves as a consultant and/or has a commercial interest in subject matter.

Visit the Exhibits
Be sure to stop by Trinity Hall, place your orders, and say thanks to the exhibitors who help defray annual session costs.
Friday AM, April 26
CONTINENTAL BREAKFAST
Trinity Hall
8-8:45 am
(by ticket only)

EXHIBITS
Trinity Hall
8-5 pm

SCIENTIFIC SESSION V
Grand Ballroom D, Atrium Lobby Level
Moderator: George T. Goodis, DDS, Grosse Pointe, MI
9 am–12 noon
New dimensions in endodontic microsurgery

Mastering the operating microscope

Richard A. Rubinstein, DDS, MS,
Farmington Hills, MI
Understand the advantages of the surgical operating microscope and what can be accomplished microsurgically. At the conclusion of the presentation, you should be able to:
- Obtain a visual understanding of endodontic microsurgery and microsurgical technique.
- Describe essential microsurgical armamentarium necessary to obtain reproducible and predictable results.
- Understand recent research using the operating microscope and SuperEBAB as the retrofilling material.
- Understand the anatomy and rationale for appropriate operating positions.

Advantages of the surgical operating microscope in guided tissue regeneration (GTR) with endodontic indications

Gabriele Pecora, MD, DDS, Rome
Understand new developments in endodontic applications of GTR and how they can be enhanced with the use of the surgical operating microscope. At the conclusion of the presentation, you should be able to:
- Use the surgical operating microscope to identify the cause of pathosis.
- Understand proper tissue handling including flap design and root conditioning.
- Understand the use of resorbable and nonresorbable materials in endodontic applications.

GENERAL INTEREST SESSION IV
Grand Ballroom A, Atrium Lobby Level
Moderator: Kathryn A. Jurosky, DDS, MS
Palo Alto, CA
9-11:30 am
Moving from worry to action: How to succeed with referring dentists and patients in a changing marketplace

Jack Silversin, DMD, DPH, Cambridge, MA
Panel members:
- Eva C. Dahl, DDS, MA, MS, La Crosse, WI
- Edwin S. Mehlman, DDS, Providence, RI
- John S. Omlsted, DDS, MS, Greensboro, NC
- Terry A. Propper, DDS, MS, Nashville, TN
- Denis E. Simon III, DDS, MS, Baton Rouge, LA
- John D. West, DDS, MSD, Tacoma, WA
During this interactive session, you will have the opportunity to:
- Understand how the changing marketplace impacts patient and referring dentist expectations.
- Hear how practical applications of AAE research can improve your practice.
- Learn about AAE tools that can help you develop positive working relationships with your key customers.
- Join this panel in an interactive problem-solving discussion.

ENDODONTIC EDUCATORS’ FORUM
Metropolitan, Mezzanine Level
Moderator: Charles J. Cunningham, DDS, Gainesville, FL
9-11 am
Recruitment and retention of dental school faculty

Eric J. Hoiland, DDS, Med, MBA, New Orleans
A dedicated, qualified, and student-oriented teacher of dentistry is a treasure for dental education. As other alternatives for the trained and skilled professional appear more attractive than teaching, a major challenge for dental education is the recruitment and retention of the individual who may be interested in an academic career. This presentation will focus on the difficulties of filling faculty positions and examine recruitment strategies that may assist schools in finding and hiring future endodontic educators. The issue of faculty retention and the influence of faculty responsibilities, incentives, university benefits, tenure, and the achievement of personal goals will be presented. An open discussion will follow the presentation for participants to comment on the forum’s theme.
**Program, continued**

**Scientific Session VI**
Chantilly Ballroom West, Tower Lobby Level
Moderator: Gerald N. Glickman, DDS, MS, Ann Arbor, MI

9 am - 12 noon
Nickel titanium instrumentation panel

9-9:15 am
Gerald N. Glickman, DDS, MS, Ann Arbor, MI
The nickel titanium revolution in endodontics

9:15-10 am
Wm. Ben Johnson, DDS, Tulsa, OK
On the cutting edge:
Concepts, designs, materials ... magic!
Speaker serves as a consultant and/or has a commercial interest in subject matter.

10-10:45 am
John T. McSpadden, DDS, Chattanooga, TN
What you should understand to use mechanical approaches effectively for canal preparation
Speaker serves as a consultant and/or has a commercial interest in subject matter.

10:45-11:30 am
E. Steve Senia, DDS, MS, San Antonio, TX
Endodontics using rotary instruments
Speaker serves as a consultant and/or has a commercial interest in subject matter.

11:30-12 noon -
Panel discussion

This comprehensive overview of contemporary rotary nickel titanium instrumentation systems will enable you to make wise and informed decisions about incorporating revolutionary endodontic concepts into practice. At the conclusion of the presentation, you should be able to:
- Understand the properties, metallurgical aspects, and scientifically-based advantages and limitations of nickel titanium in endodontics.
- Explain basic principles and technical considerations of various systems.
- Discuss how unique nickel titanium instrument designs enable canals to be prepared more efficiently and more quickly with engine-driven instrumentation than with traditional instrumentation techniques.
- Thoroughly understand the available choices of engine-driven biomechanical instrumentation alternatives.

This session will be videotaped.

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**Badges**
Badges must be worn at all official AAE functions.

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**ORAL RESEARCH PRESENTATIONS V**
Graduate Student Section
Miro, Mezzanine Level
Moderator: Mahmoud Torabinejad, DMD, MS, MD, PhD, Loma Linda, CA

9 am
The anesthetic efficacy of the intraosseous injection in irreversible pulps
John M. Nusstein (presenter), A. Reader, R. Nist, M. Beck, & W. Meyers, Ohio State Univ.

9:15 am
Effects of autonomic and sensory deervation on pulpal wound healing
Karl Keiser (presenter), & D.J. Chieco Jr., Univ. of Michigan

9:30 am
C-fos expression in the trigeminal nucleus caudalis following pulpal injury is attenuated by morphine
Ty Erickson (presenter), A.S. Law, W.T. Johnson, & G.F. Gebhart, Univ. of Iowa

9:45 am
Comparison of various transport and storage media on human PDL cell viability
Brian D. Olson (presenter), J.M. Mailhot, R.W. Anderson, R.N. Weller, & G.S. Schuster, Medical College of Georgia

10 am
Identification of bacteria in periapical lesions using DNA probes

10:15 am
The effects of mineral trioxide aggregate on the dog pulp
Kurt W. Myers (presenter), E. Kaminski, E. Lauterschlagel, & D.A. Miller, Northwestern Univ.

10:30 am
Relationship between bacterial stress response and neutrophil adherence, phagocytosis, and oxidative burst
All Etemad-Moghadam (presenter), D.E. Lapatin, G.N. Glickman, & R.E. Ellison, Univ. of Michigan

10:45 am
Apical closure induction using bone growth factors and mineral trioxide aggregate
Kenneth W. Titte (presenter), J. Farley, T. Linkhart, & M. Torabinejad, Loma Linda Univ.

11 am
The effects of doxycycline on preventing alveolar bone loss following full thickness flap reflection
G. Reed Cummings (presenter), M. Torabinejad, & D. McKendry, Loma Linda Univ.

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**Need a break?**
Complimentary coffee will be provided in Trinity Hall on Thursday and Friday at 10:30 am and 2:30 pm and on Saturday at 10:30 am.
11:15 am
Chemokine production in mononuclear cells stimulated by oral microorganisms
Thomas R. Russell (presenter), H. Schlicher, & Y. Jiang, Boston Univ.

11:30 am
The use of mineral trioxide aggregate cement (MTA) as a direct pulp capping agent

11:45 am
The incidence of penicillin resistant beta-lactamase-producing bacteria isolated from necrotic root canals
Elizabeth C. Nixon (presenter), R.A. Murphy, & J.E. Van Cura, Univ. of Illinois at Chicago

LIMITED ATTENDANCE SESSIONS
Limited seating. No standing permitted. All LAS rooms are located in the Tower Lobby Level.

LAS 13—Coral
9:10-11:15 am
Digital reality
Michael M. Hoen, DDS, Fayetteville, NC

This seminar will focus on the practical endodontic applications of digital radiography. Numerous clinical cases will be utilized to demonstrate advantages, disadvantages, and limitations of DOS and WINDOWS operating systems Charge Coupled Device technologies.

LAS 14—Emerald
9:10-11:15 am
The clinical use and research abuse of stainless steel and nickel titanium rotary endodontic instruments
Neill Luebke, DDS, MS, Brookfield, WI
Richard E. Walton, DMD, MS, Iowa City, IA

This presentation will correlate the research data with the clinical application of slow speed handpiece driven rotary instruments, including recently developed instruments. The rationale for the various research methods will be related to clinical usage and the resulting empirical data.

LAS 15—Sapphire
9:10-11:15 am
Non-surgical management of endodontic failures: Retreatment
Harry B. Levine, DDS, Lyndhurst, OH

Retreatment has become a significant aspect of endodontic practice. Through extensive case studies, this presentation will address treatment planning; clinical techniques and armamentarium, including the surgical operating microscope; and prognosis.

LAS 16—Topaz
9:10-11:15 am
Management of avulsed and displaced permanent teeth
James M. Tinnin, DDS, MSD, Fayetteville, AR

This presentation will address the diagnosis and treatment planning of avulsed and displaced permanent teeth. Early emergency treatment, splinting, storage medium, chemotherapeutic agents, and final treatment will be reviewed.

POSTER RESEARCH PRESENTATIONS
Endodontist Section
Trinity Hall
9 am-12 noon

PR 1
Microleakage of a new glass ionomer root canal sealer
Abdullah Aim S. Al-Ghamdi, BDS, MS, Riyadh, Saudi Arabia

PR 2
Detection of cytokines mRNA expression in the human pulpal tissues
Kouji Araki, DDS, PhD, Tokyo, Japan

PR 3
Relationships of microleakage to thickness of retrofitting material
B. Peter Austin, DDS, PhD, Milwaukee

PR 4
Comparing canals shaped by hand, sonic, and radial taper file techniques
Matthew R. Bistian, Milwaukee

PR 5
Coronal and apical leakage assessment for three obturation techniques
Gregory H. Buerschoten, Milwaukee

PR 6
Effect of two rotary instruments on distal root walls of first lower molars
Ricardo Calcedo, DDS, & Luis A. Linares, DDS, Sante de Bogota, Colombia

PR 7
Effects of bleaching procedures in dentin permeability using intracanal isolants barriers
Maria O.F. Ferreira, CD, Sao Paulo, Brazil

PR 8
Evaluation of two types of dental anesthesia in conventional endodontics
Maria A. Granados, DDS, & Lud Duarte, DDS, Sante de Bogota, Colombia

PR 9
Evaluation of three anesthetic solutions using two local anesthesia techniques
Juan F. Hielo, DDS, & Juan Lopez, DDS, Sante de Bogota, Colombia

PR 10
Evaluation of the storage media used during tooth replantation
Kyo Suke Iwao, DDS, Osaka, Japan

PR 11
Effectiveness of nickel titanium rotary and hand instrumentation in endodontic retreatment
Daniell Kheratian, DDS, Sao Paulo, Brazil

PR 12
Flow cytometric analysis of lymphocytes in normal and inflamed pulp
M.R. Kim, DDS, Seoul, Korea

PR 13
Clinical trial comparing postobturational pain using lateral condensation or Thermafil
Robert E. Averbach, DDS, Denver

PR 14
Biocompatibility of three endodontic cements, using the subcutaneous implantation test
Nidia R. Mendez, DDS, Sante de Bogota, Colombia

PR 15
Microleakage and resistance to compression comparative analysis of three core materials
Alejandro Mesa, DDS, & Jessica A. Rolon, DDS, Sante de Bogota, Colombia

PR 16
Periodontal healing of roots left dry and soaked with Viaspan
Mary T. Pettit, DDS, Chapel Hill, NC

PR 17
SEM analysis of dentinal tubules after calcium ion diffusion
Rodrigo Rodriguez, DDS, & Leonardo Bustos, DDS, Sante de Bogota, Colombia

PR 18
Sealing quality of Histoacyl when compared to amalgam as retrofilling
Junio Pereira da Silva, DDS, Osasco, Brazil

PR 19
Quantitative image analysis with RVG-S in endodontics
Takamori Yoshinaka, DDS, & Hideaki Suda, DDS, PhD, Tokyo

PR 20
Effects of ultrasonic and bur root-end preparations on apex canal configuration
Mario L. Zuolo, CD, Sao Paulo, Brazil
LIMITED ATTENDANCE SESSIONS
Limited seating. NO standing permitted. All LAS rooms are located in the Tower Lobby Level.

LAS 17—Coral
10:30 am–12 noon
Fun, profitability, and inner peace in private practice.
Albert C. Goerg, DDS, MS, Olympia, WA
Many endodontists have not found the rewards, joy, and contentment in private practice that they envisioned after graduating from their residency. This program will address key elements to help each of us move to the next level in practice development and to renew the passion and enjoyment of private practice. Subject areas include setting a vision for your office; employee relationships and commitment; how to work less, reduce stress, and be more profitable; how to empower your staff to run the office; and skills to help you obtain personal fulfillment in life and set a game plan for change in your office and lifestyle.

LAS 18—Emerald
10:30 am–12 noon
Endodontic problem solving and documentation through the microscope
Paul J. Ashkenaz, DDS, Chicago
Scott B. Berezikov, DDS, Crystal Lake, IL
The use of the operating microscope greatly enhances our ability to solve many clinical problems, such as calcified canals, perforation repairs, and canal obstructions. This presentation will use extensive case histories to illustrate not only how to solve these problems, but also how to document them through the use of 35mm, video, and computer enhanced media.

LAS 19—Sapphire
10:30 am–12 noon
Clinical diagnosis and treatment planning in endodontics
Paul A. Jones, DDS, MS, Leawood, KS

LAS 20—Topaz
10:30 am–12 noon
A suggested repair technique for furcation perforation
Hatem A. Alihodany, BDS, MSD, PhD, Tanta, Egypt
Furcation perforation has been treated as one homogeneous defect. This concept should be reconsidered because furcation perforation involves dentin and periodontal tissues with various repair processes. A technique for repairing furcation perforation will be presented.

AADS ENDODONTIC SECTION MEETING
Metropolitan, Mezzanine Level
11 am–12 noon

Friday PM, April 26

AWARD LUNCHEON
Charnity Ballroom East, Tower Lobby Level
Moderator: Kevin T. King, DDS, Chicago
12 noon–1:45 pm
(By ticket only)

Speaker: Steven G. Stutman, DDS, aka the Rev. Bubba Bookout, Dallas

Giggle while you nibble as “America’s Funniest Dentist” serves up lots of laughs.

Louis I. Grossman Award
Herbert Schröder, DDS
Boston

The Louis I. Grossman Award is given to an AAE member for cumulative publication of significant research studies which have made an extraordinary contribution to endodontology.

Ralph F. Sommer Award
Gunnar Bergenholtz, DDS, Gothenburg, Sweden

The Ralph F. Sommer Award recognizes the principal author of a publication of specific significance to the science and art of endodontology.

AWARD LUNCHEON, continued

Endodontic Educator Award
Eric M. Rivera, DDS, MS
Iowa City, IA

The Endodontic Educator Award recognizes an endodontist who has demonstrated status as an outstanding educator by earning the esteem and respect of students and faculty associates; by the quality of former/current students and their impact on endodontics; and by receiving invitations to present endodontic seminars, lectures or workshops at other educational or research institutions.

SCIENTIFIC SESSION VII
Grand Ballroom A, Atrium Lobby Level
Moderator: John W. Harrison, DMD, MS, Dallas
2–4:30 pm
Guided tissue regeneration in endodontics
Richard B. Feinstein, DDS, Los Angeles
Learn the various uses of resorbable and nonresorbable membranes in endodontic surgery. Endodontists sometimes encounter very large bony lesions as well as periodontal defects during surgery. The use of nonresorbable and resorbable membranes in guided tissue regeneration techniques helps promote formation of new bone, cementum, and periodontal ligament over the diseased root surface. Fractured roots with subsequent extensive bone loss and periodontal pocket formation have become more prevalent in association with endodontically treated teeth. Endodontic clinical cases using guided tissue regeneration techniques will be shown, including retention of vertically fractured endodontically treated teeth with advanced periodontal lesions. At the conclusion of the presentation, you should be able to:

★ Understand the concept of guided tissue regeneration.
★ Understand when to use the procedure.
★ Determine the proper flap design.
★ Select the proper membrane for each particular situation.
★ Understand the postoperative management of the patient.

Insurance Questions?
Trelor and Heisel has been the endorsed administrator of insurance programs for the AAE for more than 17 years. Stop by their booth in the Registration Area.

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.
SCIENTIFIC SESSION VIII
Chantilly Ballroom West, Tower Lobby Level
Moderator: Richard E. Walton, DDS, MS, Iowa City, IA
2-5 pm
Obturation panel

2-2:30 pm
James L. Gutmann, DDS, Dallas
Core gutta-percha carriers—Applications, adaptations, and assessment

2:30-3 pm
William P. Saunders, PhD, BDS, Glasgow, Scotland
Injectable gutta-percha systems

3-3:30 pm
Franklin S. Weine, DDS, MSD, Chicago
Lateral condensation of gutta-percha—No way does it better!
Speaker serves as a consultant and/or has a commercial interest in subject matter.

3:30-4 pm
John D. West, DDS, MSD, Tacoma, WA
Vertical compaction of warm gutta-percha

4-5 pm
Open panel

Various obturation techniques and devices are available. Understand and learn how to select the appropriate technique according to a particular clinical situation. After the presentation, you should be able to describe:

★ A variety of devices and instruments available for obturation.
★ The advantages and disadvantages of these devices and techniques.
★ The indications and contraindications of each according to differing clinical situations.
★ The biological and clinical basis and background for each technique.

This session will be videotaped.

GENERAL INTEREST SESSION V
Grand Ballroom D, Atrium Lobby Level
Moderator: Denis E. Simon III, DCS, MS, Baton Rouge, LA
2-5 pm
Seven weeks to better sex

Dameana Renshaw, MD, Maywood, IL
This presentation discusses close relationships, the barriers to intimacy, and the bridges to build or to restore comfortable closeness.

★ Discussion on common sex problems and how to overcome them.
★ Explanation of how to use a self-help book on enriching sexual exchange or reversing symptoms.

AMERICAN BOARD OF ENDOdontics
Senators Hall, Tower Lobby Level
Moderator: A. Eday Skidmore, DDS, Morgantown, WV
2-5 pm
The Board Walk: Becoming a Diplomate

Charles J. Cunningham, DDS, Gainesville, FL
Samuel O. Dorn, DDS, Ft. Lauderdale, FL
Robert L. Ellison, DDS, MSc, Detroit
Harold E. Goodis, DDS, San Francisco
Jeffrey W. Hutter, DMD, Bethesda, MD
William T. Johnson, DDS, MS, Iowa City, IA
Sandra Madison, DDS, MS, Asheville, NC
Marshall D. Peikoff, DMD, MS, Winnipeg, MB

The directors of the American Board of Endodontics will present a program on the Board certification process for candidates and others interested in becoming Diplomates. Recent changes in the sequencing of the examination and recertification will be addressed. Also, each section of the certification process, written and oral examinations, and case history portfolios will be presented with suggestions to assist endodontists on their “Board Walk.”


**ENDODONTIC ANCILLARY PERSONNEL PROGRAM**

Customer satisfaction: The challenge and the opportunity
Monet Mezzanine Level
Moderator: James C. McGraw, DDS, Bellevue, WA
2-5 pm
Jack Silversin, DMD, DIFH, Cambridge, MA

The AAE has taken an innovative approach to supporting the success of endodontic practices. Its research efforts have illuminated the factors most critical to satisfying your practice’s two key customers: referring dentists and patients.

In this specially designed course for all endodontic practice staff, you will learn:
1) how patients and referring doctors judge you and your doctor’s practice, and 2) concrete actions and skills you can apply to meet the challenge of achieving customer satisfaction while enhancing your own. You will come away from this session with a keener understanding of the role you can play in helping an endodontic practice to thrive.

(Designed for all endodontic office personnel. See Saturday listing on page 17 for more programs.)

**ORAL RESEARCH PRESENTATIONS VI**

Endodontist Section
Morocoo, Mezzanine Level
Moderator: Eric M. Rivera, DDS, MS, Iowa City, IA
2 pm
In vivo comparison: Digital imaging and film in assessing periradicular lesion dimension
Sondra L. Avant (presenter), Univ. of Louisville
2:15 pm
Pulpal effects of dentin desensitization with Nd:YAG laser
Shimon Friedman (presenter), M. Narti, & T. Hirvonen, Univ. of Toronto & Univ. of Kuopio, Finland
2:30 pm
The role of the socket in heating of replanted dog teeth
Martin Trope (presenter), J. Hupp, S. Mescaros, & M. Pettitite, Univ. of North Carolina
2:45 pm
Identification of bacterial species in root canal infections
J. Craig Baumgartner (presenter), B.J. Watkins, & K.S. Bae, Oregon Health Sciences Univ.
3 pm
Development of an anerobic microbial leakage model
Kwang S. Bae (presenter), T.T. Nakata, & J.C. Baumgartner, Oregon Health Sciences Univ.
3:15 pm
Antimicrobial effects of calcium hydroxide after repeated exposure to pathogens
Eric M. Rivera (presenter), M.A. Zerr, & D.R. Drake, Univ. of Iowa
3:30 pm
Smear layer removal and microbial leakage along root canal fillings
Gary D. Behrend (presenter), C.W. Cutler, & J.L. Gutmann, Baylor College of Dentistry
3:45 pm
Bone-resorptive cytokines in early periapical lesions of sciad mice
Asraf F. Fouad (presenter), Univ. of Connecticut
4 pm
Root surface temperature produced during post space preparation
Wm. Frank Kimbrough (presenter), R.N. Weiler, & R.W. Anderson, Medical College of Georgia
4:15 pm
In vitro fracture strength of endodontically treated premolars
Bradford R. Johnson (presenter), & A. Steele, Univ. of Illinois at Chicago

**ORAL RESEARCH PRESENTATIONS VII**

Graduate Student Section
Milo, Mezzanine Level
Moderator: Robert R. White, DMD, Boston
2 pm
Responses of pulpal immunocompetent cells to experimental caries
Abu M.M. Kamal (presenter), & H. Suda, Tokyo Medical and Dental Univ., Japan
2:15 pm
The effects of 10% carbamide peroxide gel on human pulp tissue: Immunohistochemical analysis
Donald G. Anderson (presenter), & G.N. Glickman, Univ. of Michigan
2:30 pm
Laser doppler flowmetry measurements of vital chemically necrosed and nonvital pulp tissue
Samuel V. Mesaros (presenter), M. Trope, E.J. Burke, & W. Maixner, Univ. of North Carolina
2:45 pm
Effect of extracellular calcium and pH on intracellular calcium regulation in a rat pulp cell line
Rodney D. Ida (presenter), B. Wong, I. Guo, T. Kawase, & J. Gutmann, Baylor College of Dentistry
3 pm
Analysis of root dentin composition using infrared microscopy spectrophotometry
3:15 pm
Tissue compatibility of root surfaces resected with burs or Nd:YAG laser
Wayne A. Mallot (presenter), C.D. Torneck, & S. Friedman, Univ. of Toronto
3:30 pm
Regulation of a cementum-associated extracellular matrix protein by endodontic materials
Mario D’Amato (presenter), R. Craig, & P.A. Rosenberg, New York Univ.
3:45 pm
Early response of the dental tubular compartment to cavity preparation
Tom J. Iwanski (presenter), & C.D. Torneck, Univ. of Toronto
4 pm
Cytotoxic responses of osseous cells to root canal obliterating materials
4:15 pm
Effect of EDTA treatment on the composition of root dentin with respect to location on root
LIMITED ATTENDANCE SESSIONS

Limited seating, NO standing permitted. All LAS rooms are located in the Tower Lobby Level.

LAS 21—Coral
2:30-3:15 pm
Guided tissue regeneration
Robert A. Uchin, DDS, Ft. Lauderdale, FL
The advent of GTR membrane use in the treatment of advanced bony lesion case management provides the endodontist an additional adjunctive tool to treat an isolated bony defect with enhanced expectation of clinical regeneration of bone in the healing process. A review of the literature and a discussion of endodontic indications and techniques will be presented.

LAS 22—Emerald
2:30-3:15 pm
Management of calcified and curved canals
Peter Velvart, DMD, Zurich, Switzerland
Emphasis will be placed on detection of canals, removal of obstructions from previous treatments, and how to bypass possible ledges to gain access to the root canal. Once the canal has been penetrated, a new approach to instrument the calcified and curved canals—the patience technique—will be presented.

LAS 23—Sapphire
2:30-3:15 pm
Management of orofacial pain in the endodontic office
Patrick Boggaerts, LSD, Brussels, Belgium
George A. Zurkov, DDS, Wilmington, DE
When a patient presents with pain of a suspected nondental origin, what should the endodontist do? To answer this question, case reports will be presented with a discussion of diagnostic techniques and methods of management.

LAS 24—Topaz
2:30-3:15 pm
Have endosseous implants (endodontic stabilizers) been forgotten?
Pablo Barrionto, DDS, Santiago, Chile
There is an increasing use of osseointegrated implants in patients where endosseous implants (EDI) may be indicated. This presentation will cover fundamentals for surgical technique and a 25-year review of clinical cases that will demonstrate that EDI may improve radicular retention, obviate root perforations, and complement radicular extrusions.

LIMITED ATTENDANCE SESSIONS

Limited seating, NO standing permitted. All LAS rooms are located in the Tower Lobby Level.

LAS 25—Coral
3:15-4:00 pm
Endodontic-related inferior alveolar nerve and mental foramen paresthesia
Donald R. Morse, DDS, PhD, Cherry Hill, NJ
Fifteen cases of prevention of paresthesia from overfilled lower premolars and molars and one case of an infection-related lower premolar paresthesia treatment will be presented.

LAS 26—Emerald
3:15-4:00 pm
What the endodontist should know about orthodontic treatment
Yolanda V. Justus, DDS, CD, Mexico City
This presentation will discuss endodontic clinical cases undergoing orthodontic treatment where a difficulty arises in the differential diagnosis of pain, whether it is of endodontic origin or due to orthodontic tooth movements. The treatment of traumatic dental injuries and the endo-ortho relation for stabilizing these teeth will be reviewed, as will the subject of root resorption during ortho treatment in endodontically treated vs. vital teeth.

LAS 27—Sapphire
3:45-5:30 pm
Intentional replantation
Uziel Blumenkranz, DDS, Caracas, Venezuela
Although it is known that endodontic treatments have a success rate of more than 90 percent, some of the cases treated still fail. Though many of these failures can be solved surgically, some patients will not accept a surgical alternative, or some teeth are not mendable by surgical procedures. In this presentation, indications and contraindications will be given for intentional replantation, and three cases solved with this alternative will be discussed.

Seattle Coffee Mugs
Be sure to visit the 1997 Annual Session Display, located in the AAE Information Center in Trinity Hall, and exchange your voucher for a free coffee mug (while supplies last).

LAS 28—Topaz
3:45-5:30 pm
Rational use of bone substitutes and membranes in endodontic surgery
Jean-Yves G. Cochet, DDS, Paris
Bone substitute materials and membranes are generally used in periodontology. According to the latest histologic, bio-chemical, and clinical studies on guided tissue regeneration, this concept can be adapted to surgical endodontics and the real indications and specific properties of these biomaterials can be determined. Resorbability, sterilization, and the absence of immunologic response are the principal reasons for choosing certain biomaterials to treat bone defects. The resorbable membranes actually increase significantly the possibility of treatment in different critical situations. C.T. Scan are generally used to visualize bone defects and sinus pathologies; they allow modification of surgical strategy and represent a particular help to control the real bone regeneration. The relationship between endodontics and sinus pathology will be analyzed, and an approach to treat sinus pathologies will be discussed.

ABE DIPLOMATE MEETING

Senators Hall, Tower Lobby Level
5-6 pm

Saturday AM, April 27

CONTINENTAL BREAKFAST
Trinity Hall
8-8:45 am
(Try ticket only)

EXHIBITS
Trinity Hall
8 am-1 pm

POSTER RESEARCH PRESENTATIONS
Graduate Student Section
Trinity Hall
8:30-11:30 am

PR 21
Endotoxin penetration from mixed culture through obturated, post-prepared canals
Josef A. Alves, DDS, Univ. of Iowa

PR 22
Comparison of debris extruded apically: Conventional filing versus ProFile .04 Taper Series 29
Thomas J. Besson, DDS, Medical College of Virginia

continued on next page
Program, continued

Poster Research Presentations, continued
Trinity Hall

PR 23
Effects of Peridex on inflammatory cytokines in human osteoblasts
Frederick L. Canby, DDS, Northwestern Univ.

PR 24
A comparison of two instrumentation techniques to prepare simulated curved canals
Craig R. Carr, DDS, Marquette Univ.

PR 25
Timing of restoration as a risk factor for endodontic outcome
Nadia Chugui, DDS, MS, MPH, Univ. of Connecticut

PR 26
Permeability of sealed and unsealed bevel preparations
Joseph D. de Guzman, DDS, Marquette Univ.

PR 27
Determining the location of horizontal root fractures with apex locators
James R. Dow, DDS, Univ. of Maryland

PR 28
The effects of deep cryogenics on the strength of files
Scott A. Draneck, DMD, St. Louis Univ.

PR 29
Smear layer removal and apical seal as determined by electrochemical analysis
David K. Fogundes, DMD, Univ. of Maryland

PR 30
Comparison of hand filing with two engine driven techniques
Kenneth J. Fricke, DDS, Marquette Univ.

PR 31
Effects of PDGF on bone nodule formation in vitro
Sung-Chin Hsieh, DDS, Boston Univ.

PR 32
The viability of periodontal ligament cells of teeth stored for extended periods
James G. Hupp, DMD, Univ. of North Carolina

PR 33
Determining the need for endodontic treatment in a dental school population
Maryam M. Montarej, DDS, Medical College of Virginia

PR 34
Shelf life determination of premixed sealer cement packaged in cartridges
Mary Pang, DDS, & Rory E. Mortman, DDS, New York Univ.

PR 35
Removal of a carbon-fiber post system
Scott B. Peters, DDS, Northwestern Univ.

PR 36
A comparative root filling leakage study utilizing surgical Simplex P bone cement
James M. Randall, DDS & Wanda F. Goodreau, DMD, Univ. of Maryland

PR 37
Comparison accuracy of four apex locators in vitro
Patrick W. White, DDS, Marquette Univ.

PR 38
Finite element analysis of stresses developed during spreader insertion
Thomas J. Wittek, DDS, Marquette Univ.

Table Clinics
Trinity Hall
8:30-11:30 am

TC 1
An engine driven root canal preparation system with electronic canal length measurement
Chinohiro Kobayashi, DDS, PhD, & Takatomu Yoshihara DDS, Tokyo

TC 2
Surgical periodontics as an adjunct to surgical endodontics
Emanuel Alvaro, DDS, Harvard Univ.

TC 3
The control of postoperative endodontic pain with corticosteroids
Sara A. Azar, DDS, Albert Einstein Medical Center

TC 4
The incidence of multiple canals in the mesiobuccal root of maxillary molars
William S. Bachicha, DDS, & Gregory E. Shinkwin, DDS, Northwestern Univ.

TC 5
Repair for internal matrix repair for endodontic perforations using bovine type I collagen
Anthony P. Basthui, DDS, & Kevin T. Mullin, DDS, Univ. of Maryland

TC 6
Innovative applications for collagen matrices in endodontics
Michael R. Bishop, DDS, & Michael A. Sufaro, DDS, Univ. of Michigan

TC 7
Atypical odontalgia: A condition that may mimic odontogenic pain ... diagnosticians beware!
Carrie L. Burger, DDS, & Jason P. Devey, DMD, Naval Dental School

TC 8
The use of translumination and metlenic blue dye to visualize root fractures during periododontic surgery
Deborah C. Creagh, DMD, & John D. Regan, DDS, MSc, Baylor College of Dentistry

TC 9
Strengthening of immature permanent teeth during and after apexification
B. Clark Dalton, DMD, & Nooshin Kotebakdeh, DDS, Univ. of North Carolina

TC 10
Vascularly tapered instruments: Do they really make a difference?
Matthew S. Davis, DDS, & Ari C. Smith, DDS, Univ. of Michigan

TC 11
The use of Profile .04 Taper Series 29 rotary instruments for retreatments and separated instruments
James C. Dowhill, DDS, & Scott A. Jensen, DMD, Naval Dental School

TC 12
Synthesis of the hypochlorite accident
George J. Euler, DDS, & Scott A. Jensen, DMD, University of Dentistry

TC 13
Radiographic interpretations of root fractures
John B. Goessman, DDS, Univ. of Maryland

TC 14
Diagnosis and treatment of dentinal hypersensitivity
Scott A. Janse, DDS, Univ. of Texas at Houston

TC 15
The effect of bur type on resected root surfaces
Constantinos D. Loghiros, DDS, & Myron S. Hilton, DDS, MPH, Baylor College of Dentistry

TC 16
Vertical root fractures
Blaine E. Mowrey, DMD, & Donna M. Pisano, DDS, Northwestern Univ.

TC 17
Cortical metaplasia: Diagnosis and treatment concerns
Peter M. Murphy, DDS, & Edward D. Kosakowski, DMD, Naval Dental School

TC 18
Suturing and suturing materials
Ali Nasiri, DDS, Harvard Univ.

TC 19
Light transmitted intraradicular endodontic restorations
David F. O'Connor, DMD, & Diane L. Doyle, DMD, Univ. of Maryland
ENDODONTIC AYNCILLARY PERSONNEL PROGRAM

U 2 KN DO RCT
Metropolitan, Mezzanine Level
Moderator: Jeffrey W. Huffer, DMD, Bethesda, MD

9-11:30 am
John S. Ormsford, DDS, MS, Greensboro, NC

The dental assistant is an integral part of the endodontic team. This session will be devoted to helping all dental assistants complete endodontic procedures for which they are trained, that are legal in their state, and with which they feel comfortable. The endodontic assistant will learn how to gather information to help with diagnosis, instrumentation and obturation of the root canal system, and postoperative care. The practical side of OSHA requirements will also be discussed, and AAE patient education materials will be handed out for review.
(Designed for endodontic dental assistants.)

See Friday listing on page 14 for additional ancillary personnel program.

Enhancing front desk operations
Monet, Mezzanine Level
Moderators: Gerald C. Dietz Sr., DDS, Bloomfield Hills, MI and Philip W. Cohen, DDS, MS, Livonia, MI

9-10:15 am
Martin D. Levin, DMD, Chevy Chase, MD

This two-part workshop will explore the need for customer service strategies to enhance front desk operations. The first session will emphasize patient flow from initial telephone contact and patient welcome through patient checkout. In addition, each phase of the patient experience will be examined to focus on how to exceed patient expectations.

10:15-11:30 am
Gerald C. Dietz Sr., DDS
Philip W. Cohen, DDS, MS

The second part of this workshop will feature Drs. Dietz and Cohen moderating an interactive panel of office managers from several solo and group practices. They will explore additional operational issues and encourage a lively group discussion of concepts presented in the lecture. Endodontic office staff panels are: Janet Fowler, Livonia, MI; Denise Cartier, Bloomfield Hills, MI; Deborah Jones, Plano, TX; and Amy Alman, Washington, DC. (Designed for endodontic administrative and front office personnel.)

SCIENTIFIC SESSION IX
Grand Ballroom D, Atrium Lobby Level
Moderator: Henry J. Ranksow, DDS, Camp Hill, PA

9-11:45 am
Noah Chivian, DDS, West Orange, NJ

This presentation will describe the techniques used to prevent chaos when endodontically treated teeth require posts and show how to salvage problem teeth with post perforations or fractured posts. At the conclusion of the presentation, you should be able to:
★ Describe the fundamentals of post design, including preventing root fractures.
★ Efficiently and safely prepare post space.
★ Describe the factors and materials involved in post perforation repair and implement them.
★ Remove posts for retreatment and fractured posts to save abutment teeth.

SCIENTIFIC SESSION X
Chantilly Ballroom West, Tower Lobby Level
Moderator: Christopher S. Wnekus, DDS, Chicago

9-11:30 am
Advanced nonsurgical endodontics: Concepts, strategies, and techniques
Clifford J. Ruddle, DDS, Santa Barbara, CA

Learn a variety of microendodontic techniques commonly employed in nonsurgical endodontic disassembly. At the conclusion of the presentation, you will have a greater appreciation of the concepts, strategies, and techniques employed in microendodontic retreatment and be able to:
★ Better understand root canal system anatomy and the role it plays in endodontic prognosis.
★ Appropriately select when to perform nonsurgical vs. surgical retreatment.
★ Disassemble restorative dentistry.
★ Identify and treat missed canals.
★ Remove posts and cores.
★ Eliminate obturation materials.
★ Repair perforations using hemostatics, matrices, and materials.
★ Retrieve broken instruments.

This session will be videotaped.
GENERAL INTEREST SESSION VI
Grand Ballroom A, Altium Lobby Level
Moderator: Harmon R. Kohn, DDS, New Brunswick, NJ
9-11:45 am
Managed care panel

9-9:45 am
Ethics and managed care
Muriel J. Bebeau, PhD, Minneapolis
New market forces challenge the values that have traditionally guided health care. This presentation will examine their adequacy in light of the forces impacting the profession. After brief look at these values emerging as guides to professional practice, learn about the new values required of the professional and new ways for providers and purchasers to cooperate to realize the potential for “managed care.”

9:45-10:30 am
Legal issues in managed care
Mark S. Rubin, JD, Chicago
Participants will be informed about general legal issues regarding managed care, including antitrust, business torts, and contract analysis by this ADA staff attorney. This information will help dentists make informed individual decisions about whether to participate in managed care or any particular plan.

10:30-11:15 am
Legislative efforts affecting managed care plans
Thomas J. Spangler, JD, Washington, DC
An overview of federal and state legislative activities affecting issues commonly associated with managed care will be discussed, focusing on specific actions involving the American Dental Association and legislative provisions that could directly impact the practice of dentistry. Part of the presentation will create an understanding and appreciation for the remedies we can expect from the legislative process. An explanation will be provided of what each ADA/AAE member can do to assist organized dentistry in carrying its message to the United States Congress and the State Legislatures.

11:15-11:45 am
Open discussion

ORAL RESEARCH PRESENTATIONS VIII
Graduate Student Section
Miro, Mezzanine Level
Moderator: Thom C. Dunsha, MS, DDS, Baltimore

9 am
Anesthetic efficacy of supplemental intrasosseous injections in mandibular posterior teeth
Jonathan W. Reitz (presenter), A. Reeder, R. Nist, M. Beck, & W. Meyers, Ohio State Univ.

9:15 am
Longitudinal sealing ability of mineral trioxide aggregate as a root-end filling material
Christopher F. Bates (presenter), D.L. Carney, & C.E. Del Frio, Wilford Hall USAF Medical Center & Univ. of Texas at San Antonio

9:30 am
Biocompatibility and osteogenic potential of G5 and G6

9:45 am
Interaction of calcium hydroxide with zinc oxide-eugenol type sealers: A potential clinical problem
Konstantinos Vardelis (presenter), J. Margelos, G. Blades, & G. Palaghias, Columbia Univ. & Greek Research Center for Biomaterials

10 am
Disintegration of SuperEBA in solutions with adjusted pH and amylolysis

10:15 am
Evaluation of cracks associated with ultrasonic root-end preparation of obturated or unobturated canals

10:30 am
The effect of microscopy on surgical decisions
Ray C. Richie-Gillespie (presenter), J.T. Basso, D.A. Miller, & E.H. Greener, Northwestern Univ.

10:45 am
A comparison of sealer placement techniques in curved canals
Michael C. Hall (presenter), D. Clement, S.B. Dove, & W.A. Walker III, Wilford Hall USAF Medical Center & Univ. of Texas at San Antonio

11 am
Interpretation of periradicular lesions using digital radiography versus conventional radiography

11:15 am
Computer imaging and the anatomical considerations of post space preparation
Josanne O’Dei (presenter), D. Al-Sudani, & M. Abou-Rass, Univ. of Southern California

Visit the Exhibits
Be sure to stop by Trinity Hall, place your orders, and say thanks to the exhibitors who help defray annual session costs.
LIMITED ATTENDANCE SESSIONS
Limited seating. NO standing permitted. All LAS rooms are located in the Tower Lobby Level.
LAS 29—Coral
9:10:30 am
The role of the microscope in creating the exceptional endodontic practice
John D. West, DDS, MSD, Tacoma, WA
How can a microscope be incorporated into a busy practice? Is it worth it? Do you need it? What is the relationship of the microscope to personal and professional satisfaction, to revitalizing the endodontic team, to the education of patients, to the enlightenment of the restorative dentist, and to the community? This session will address each of these questions as well as provide answers to crucial questions about practice style, identity, innovative techniques, new materials, and managed care. This session will not be taped.
LAS 30—Emerald
9:10:30 am
Treatment of vertical fractures: Immediate implantation
Sebastiano Andreana, DDS, MS, Rome
Dario De Leonardi, DDS, Rome
Ugo Covani, DDS, MD, Cnamadore, Italy
Vertical fractures still represent a challenge in terms of diagnosis and treatment for the endodontist. Most of the time, teeth presenting vertical fractures are hopeless and extraction is indicated. Immediate implantation to replace extracted teeth has proved to be a valid treatment with very high rate of success. With immediate implantation, natural bone height and width are preserved, as well as the natural position of the tooth. Contrarily, delayed treatment allows for alveolar crest resorption, leading to more extensive treatment plans. This presentation will elucidate the rationale beyond immediate implantation, long term evaluation, and rate of success. Step-by-step clinical phases, from diagnosis to surgery to completion of the cases, will be illustrated.

LAS 31—Sapphire
9:10:30 am
Vertical root fractures (VRF) in endodontically treated teeth: A diagnostic perplexity
Aviad Tarnow, DMD, Tel Aviv, Israel
The diagnosis and management of VRFs in endodontically treated teeth is difficult and frustrating for the patient and the dentist as well. No single sign is pathognomonic for this phenomenon, and a long time can elapse between the dental procedures and the clinical or radiographic manifestations. Many times the signs, symptoms, or radiographic features imitate true periodontal problems or root canal treatment failure. The combination of the signs, symptoms, radiographic picture, and the case history can lead to a possible diagnosis. Often, however, the fracture is only discovered after performing an exploratory flap or extraction. This presentation will review clinical procedures that can help to obtain a diagnosis such as slight gingival retraction; dying suspected areas in the pulp chamber after total cleaning; and full periodontal flap.

LAS 32—Topaz
9:10:30 am
Pulp biology research: New insights and future directions
Rene D'Souza, DDS, PhD, Houston
This presentation will provide an overview of clinically relevant research advances made in understanding the biology of the dentin-pulp complex during development and repair.

Badges
Badges must be worn at all official AAE functions.

Attire
Business casual clothing is recommended for daytime wear. For evening, dress slacks, skirts, and casual dresses are appropriate. Some restaurants require jackets and ties. Black tie is optional at the President's Dinner Dance.

Smoking Policy
For the comfort and health of all attendees, smoking is not permitted at any AAE function. This includes all scientific and general interest sessions, breakfasts, luncheons, receptions, exhibits, and the dinner dance.

Saturday PM, April 27
EDGAR D. COOLIDGE LUNCHEON
Chantilly Ballroom East, Tower Lobby Level
12:30-1:45 pm
(by ticket only)
Moderator: H. Robert Steiman, DDS, Detroit
Edgar D. Coolidge Award
Stuart B. Fountain, DDS, MSc, Greensboro, NC

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.

Graduate student awards for oral research presentations, poster research presentations, and table clinics will also be presented. Financial support for the student awards is provided by Caulk/Dentsply.

GENERAL ASSEMBLY
Wedgewood, Tower Lobby Level
2-4 pm

PAST PRESIDENTS' RECEPTION
Chantilly Foyer, Tower Lobby Level
6:30-7:30 pm
Preceding the President's Dinner Dance, this annual reception will offer a cash bar.

PRESIDENT'S DINNER DANCE
Chantilly Ballroom, Tower Lobby Level
7:30 pm-midnight
(by ticket only)
Join friends, family, and colleagues for an elegant evening wrapping up the 53rd Annual Session. Dine on sumptuous food while listening to a lively array of music. (Dress is black tie optional.)

Sunday, April 28
FAREWELL BREAKFAST
Wedgewood, Tower Lobby Level
8-9 am
(by ticket only)

FACULTY DEVELOPMENT POST MEETING
Fleur-de-Lis A & B
Henry A. Gremillion, DDS, Gainesville, FL
Trigging the orofacial pain patient
9-4 pm
(by invitation only)
**Board and Committee Meetings**

**Sunday, April 21**
American Board of Endodontics Board of Directors, 1–6 pm ... Dardenelles

**Monday, April 22**
American Board of Endodontics Board of Directors, 8 am–6 pm ... Inverness

**Tuesday, April 23**
AAE Board of Directors, 8 am–5 pm ... Emerald

**Wednesday, April 24**
AAE Foundation Board of Trustees, 8 am–5 pm ... Morocco
American Board of Endodontics Board of Directors ... Inverness
Dental Benefits, 2–5 pm ... Peridot
Honors & Awards, 2–5 pm ... Obelisk B
Research & Scientific Affairs, 2–5 pm ... Obelisk A

**Friday, April 26**
Clinical Practice, 7–8:45 am ... Lalique
Constitution & Bylaws, 7–8:45 am ... Obelisk B
Editorial Board, 7–8:45 am ... Rosetta
Endodontic Ancillary Personnel, 7–8:45 am ... Steuben
Governmental Affairs and Federal Dental Health Services, 7–8:45 am ... Travertine
Membership Insurance, 7–8:45 am ... Wyeth
Membership Services, 7–8:45 am ... Fleur-de-Lis A
Professional Standards, Peer Review & Ethics, 7–8:45 am ... Obelisk A

**Saturday, April 27**
Educational Affairs, 7–8:45 am ... Travertine
Public and Professional Affairs, 7–8:45 am ... Wyeth
Past Presidents’ Breakfast, 7:45–8:45 am ... Honeysuckle Room, 27th Floor

**Sunday, April 28**
AAE Board of Directors, 8 am–1 pm ... Morocco

**Auxiliary Program**

**President**
Aimeé Simon (Denis)

**President-elect**
Kathy Linebarger (William)

**Vice President**
Phyllis Baur (Jack)

**Secretary**
Rikki Bell (Craig)

**Treasurer**
Debra Howard (James)

**Parliamentarian**
Mary Jastrab (Robert)

**Local Arrangements**
Marylou Guthmann (James)

All meetings will be in the Tower Garden Hospitality Suite unless otherwise indicated.

**Wednesday, April 24**
3–5 pm Board meeting
5–6 pm Liaison meeting

**Thursday, April 25**
8–10 am Hospitality Suite
3–5 pm Lillian Pear reception

**Friday, April 26**
8–10 am Hospitality Suite
11 am–1:30 pm Board luncheon
2–5 pm General Interest Session V
Grand Ballroom D, Atrium Lobby Level
Dr. Domeena Renshaw
“Seven weeks to better sex”

**Saturday, April 27**
“Hats off in Dallas to the AAE Auxiliary” Brunch
Peacock Terrace (by ticket only)
8–10:30 am

Jacquelyn Thompson, Baton Rouge, LA. Owner of Jacquelyn’s Chapeaux, Jacquelyn Thompson will be speaking on the lost art of millinery and producing some custom designs.

Anne Namba, who was our guest speaker two years ago in Hawaii, will be returning with her updated “Kimono Couture.”

11 am–12 noon Board Meeting
Alumni, Affiliates & Other Groups

Wednesday, April 24
US Army Assn. of Endo., 4:30–6 pm ........................................... Emerald

Thursday, April 25
Christian Endo. Society, 5–6 pm .............................................. Edelweiss
Int'l. Federation of Endo. Assn., 10 am–12 noon ......................... Fleur-de-Lis A & B
Michigan Assn. of Endo., 6:30–8:30 pm ................................ Peacock Terrace
Northwestern Dental Alumni, 6:30–8 pm ................................ Obelisk A & B
Speer/Streff Study Group, 5:30–7:30 pm ................................ Dardeneles
Tarheel Endo. Assn., 5–6 pm .................................................. Travertine
Tufts Univ. Endo. Alumni, 6:30–8 pm ..................................... Wyeth
Univ. of Illinois at Chicago Endo. Alumni, 6–10 pm .................. Cardinal A & B
Univ. of Maryland Alumni, 6–8:30 pm ................................ Rosetta
Univ. of North Carolina Endo. Alumni Assn., 6–7:30 pm ........... Steuben
Univ. of Pennsylvania Endo. Alumni, 6–7:30 pm ...................... Wedgewood
Univ. of Pittsburgh, 6–8 pm ................................................... Lalique
Univ. of Washington Graduate Endo. Alumni, 6:30–8:30 pm ........ Metropolitan
West Virginia Univ. Alumni, 4–5 pm ........................................ Travertine

Friday, April 26
Albert Einstein Endo. Alumni, 6–7:30 pm ................................ Obelisk A
Boston Univ. Alumni Faculty Assn., 7–10:30 pm ......................... Peacock Terrace
Florida Assn. of Endo., 5:30–6:30 pm ...................................... Edelweiss
Iowa Endo. Group, 6–8 pm ...................................................... Obelisk B
MCSV/VCU Endo. Alumni Assn., 5–7 pm ................................ Rosetta
Minnesota Alumni Assn., 6–8 pm .......................................... Cardinal A & B
New York Univ. Endo. Alumni Assn., 6–8 pm ......................... Wyeth
Oklahoma Assn. of Endo., 7–8:45 am ...................................... Edelweiss
Pacific Endo. Research Foundation, 6–10 pm ......................... Fleur-de-Lis A & B
PAE, 8–9:45 am .................................................................. Trinity Hall
Univ. of Connecticut Endo. Alumni, 6:30–8 pm ....................... Steuben
Univ. of Southern California Endo. Alumni, 5:30–7 pm .......... Lalique
Univ. of Toronto Alumni & Friends, 7:30–8:45 am .................. Dardeneles

Saturday, April 27
Boston Univ. Alumni Faculty Assn., 7–8:45 am ......................... Fleur-de-Lis A & B
Harry J. Healy Endo. Study Club, 7–8:45 am ......................... Lalique
Michigan Endo. Alumni & Univ. of Detroit/Mercy Alumni, 7–8:45 am ........ Wedgewood
US Air Force Endo., 7–8:45 am .............................................. Rosetta
US Navy Assn. of Endo., 7–8:45 am ......................................... Obelisk A & B

1996 Tours

Beat the System Discount Shopping
$35/person; Lunch included
Wednesday, April 24, 12 noon–5 pm or
Saturday, April 27, 10 am–3 pm

Fort Worth—Where the West Begins (with Thistle Hill)
$39/person; Lunch included
Thursday, April 25, 9 am–4 pm or
Friday, April 26, 9 am–4 pm

Discover Dallas Tour Including Sixth Floor Museum
$25/person; Lunch not included
Thursday, April 25, 1–3:30 pm

Dallas Arboretum and Botanical Gardens
$32/person; Lunch not included
Thursday, April 25, 1–4 pm

Great Chefs of Dallas
$54/person; Lunch included
Thursday, April 25, 10:30 am–2:30 pm or
Friday, April 26, 10:30 am–2:30 pm

Swiss Avenue—A Chapter in Dallas History
$35/person; Lunch not included
Friday, April 26, 9:30 am–1 pm

JFK Historical Tour
$33/person; Lunch not included
Friday, April 26, 9 am–1 pm or
Saturday, April 27, 9 am–1 pm

Mesquite Championship Rodeo
$58/person; Dinner included
Friday, April 26, 5:45–11 pm

If you have pre-registered, go to the AAE Tour Desk in the Tower Convention Registration area of the Wyndham Anatole Hotel to pick up your tickets. Tickets may be purchased at the AAE Tour Desk on a space-available basis only, subject to a three dollar surcharge per ticket. Tours will depart from the Clock Tower entrance between the Atrium and Tower of the Anatole.
Exhibitors

Please stop by, place your orders, and say thanks to the exhibitors who help defray annual session costs. Badges must be worn in Trinity Hall. Continental breakfast will be provided on Friday and Saturday (by ticket only). 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 25 ........................................... 10 am–6 pm
- Friday, April 26 .................................................. 8 am–5 pm
- Saturday, April 27 .............................................. 8 am–1 pm

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Booth 209  Hu-Friedy Mfg. Co., Inc.
    3232 N. Rockwell St.
    Chicago, IL 60618

Booth 514  Hygenic Corporation
    1245 Home Ave.
    Akron, OH 44310

Booth 106  J. Morita USA, Inc.
    14712 Bentley Circle
    Tustin, CA 92680

Booth 201-1  JEDMED Instrument Company
    5416 JEDMED Ct.
    St. Louis, MO 63129

Booth 623  Johnson & Johnson Medical, Inc.
    P.O. Box 90130
    2500 Arbrook Blvd.
    Arlington, TX 76004

Booth 218  JS Dental Manufacturing, Inc.
    196 N. Salem Rd.
    Ridgefield, CT 06877

Booth 617  Keeler Instruments, Inc.
    456 Parkway
    Broomall, PA 19008

Booth 108  Kerr Corporation
    28200 Wick Rd.
    Romulus, MI 48174

Booth 102  Kil Gore International, Inc.
    36 W. Pearl St.
    P.O. Box 98
    Coldwater, MI 49036

Booth 219  Light-Tech, Inc.
    8909 W. Josephine Rd.
    Sebring, FL 33872

Booth 320  Lightspeed Technology, Inc.
    11707 Raindrop Dr.
    San Antonio, TX 78216

Booth 100  Medidenta International, Inc.
    39-23 62nd St.
    Woodside, NY 11377

Booth 200  Microcopy
    3120 Moon Station Rd.
    Atlanta, GA 30144

Booth 107  Moeller Microsurgical
    9 Industrial Park
    Waldwick, NJ 07463

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<td>Moyco Union Broach</td>
<td>200 Commerce Dr. Montgomeryville, PA 18936</td>
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<td>9400 King St. Franklin Park, IL 60131</td>
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<td>National Dental Eng. &amp; Mfg.</td>
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<td>321 E. 25th St. Tacoma, WA 98421</td>
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<td>Orascoptic Research, Inc.</td>
<td>5225-3 Verona Rd. P.O. Box 44451 Madison, WI 53744</td>
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<td>8242 W. Third St., Ste. 150 Los Angeles, CA 90048</td>
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<td>2500-19 S. Flower St. Los Angeles, CA 90007</td>
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<td>1031 Mendota Heights Rd. St. Paul, MN 55120</td>
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<td>Premier/ESPE America</td>
<td>1710 Romano Dr. P.O. Box 11 Norristown, PA 19404</td>
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<td>9300 Jollyville Rd., Ste. 100 Austin, TX 78759</td>
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<td>17 Phaedra Laguna Niguel, CA 92677</td>
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<td>402</td>
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<td>551 N. Kimberly Dr. Carol Stream, IL 60188</td>
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<td>4531 N. Dixie Highway Boca Raton, FL 33431</td>
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<td>1010 W. Hamlin Rd. Rochester Hills, MI 48309</td>
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<td>Schick Technologies, Inc.</td>
<td>31-00 47th Ave. Long Island City, NY 11101</td>
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<td>Seller Instrument Co.</td>
<td>170 E. Kirkham Ave. St. Louis, MO 63119</td>
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<td>222</td>
<td>Septodont, Inc.</td>
<td>245 Ste. C Quigley Blvd. Newcastle, DE 19720</td>
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<td>SS White Burs, Inc.</td>
<td>1145 Towbin Ave. Lakewood, NJ 08701</td>
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<td>51</td>
<td>Trelor &amp; Heisel, Inc.</td>
<td>3132 Wilmington Rd. New Castle, PA 16105 (Registration Area)</td>
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<td>116</td>
<td>Trophy Radiology, Inc.</td>
<td>2221 Newmarket Pkwy., Ste. 136 Marietta, GA 30067</td>
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<td>Tulsa Dental Products</td>
<td>5001 E. 68th St., Ste. 500 Tulsa, OK 74136</td>
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<td>521</td>
<td>W. L. Gore &amp; Associates, Inc.</td>
<td>1500 N. 4th St. Flagstaff, AZ 86004</td>
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<td>609</td>
<td>Western Dental Specialties</td>
<td>3680 Charter Park Dr., Ste. B San Jose, CA 95136</td>
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<td>Whitehall-Robins Healthcare</td>
<td>5 Giralda Farms Madison, NJ 07940</td>
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<td>210</td>
<td>Williams &amp; Wilkins</td>
<td>351 W. Camden St. Baltimore, MD 21201</td>
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**Other Exhibits:**

- **AAE Information Center**
  - AAE Products
  - Colleagues for Excellence
  - 1997 Annual Session
  - Tote bags and coffee mugs
  - American Board of Endodontics
  - AAE Foundation

- **AAE Career Opportunities Exchange (Registration Area)**
  - Teach'em Inc.
    - 160 E. Illinois St.
    - Chicago, IL 60611
    - (Registration Area)

**Also in Trinity Hall:**

Don't forget to stop by the Poster Research Presentations and Table Clinics while you're in Trinity Hall for the exhibits. The Poster Research Presentations and Table Clinics are scheduled to be presented as follows:

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

- **Poster Research Presentations 21-38**
  - Graduate Student Section
  - Saturday, 8:30–11:30 am

- **Table Clinics 1-24**
  - Saturday, 8:30–11:30 am

**Additional Exhibitor:**

- 613 Hartzell & Son, G.
  - 2372 Sanwell Circle
  - P. O. Box 5988
  - Concord, CA 94520
### Award Recipients

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| **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  |
| Synguik 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  |

| **Endodontic Educator Award**     |      |
| * Gordon D. Mattison              | '95  |
| Eric M. Rivera                    | '96  |

| **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               | '83  |
| * Oscar A. Maisto                 | '79  |
| Henry O. Trowbridge               | '86  |
| David H. Pashley                  | '92  |
| Irma S. Kudo                      | '94  |
| Frank N. Lentine                  | '94  |
| Michel Maillefer                  | '94  |

### Past Presidents

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<td>* Robert G. Kesel</td>
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<td>* E.G. Van Valey</td>
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<td>* Elmer A. Jasper</td>
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<td>* Raymond L. Girardot</td>
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<td>* N. Weir Burman</td>
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<td>* Harry J. Healey</td>
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<td>* John R. Pear</td>
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<td>* J. Henry Kaiser</td>
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<td>* Paul P. Sherwood</td>
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<td>* Glenn R. Brooks</td>
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<td>* Vincent B. Milas</td>
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<td>Richard C. Burns</td>
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*Deceased*
Participants

A
Abedi, Hamid R.  
Al-Ghamdi, Abdullah  
Alhadi, Fatimah  
Ali, Tariq  
Almeida, Amy  
Alvaro, Emmanuel  
Alves, Josiah A.  
Anderson, Donald G.  
Anderson, Ronald W.  
Andrasio, Sebastian  
Araki, Kouji  
Arndt, Larry  
Arnold, Jimmy W.  
Ashkenazi, Paul J.  
Aurbach, Justin E.  
Austin, B. Peter  
Avant, Sondra L.  
Averbach, Robert E.  
Azar, Sarina A.  
Azevedo, Cedson Lima de  
B
Babick, Peter J.  
Bachicha, William S.  
Bao, Kwang S.  
Baker, Mark C.  
Balkind, Leo L.  
Barbash, Fred  
Barrientos, Pabl  
Barrett, Keli K.  
Barraza, Joseph T.  
Bastalli, Anthony P.  
Bates, Christopher F.  
Batrum, Deborah E.  
Baumgartner, Craig  
Bebeau, Murry J.  
Beeson, Thomas J.  
Behrend, Gary D.  
Beling, Kristen L.  
Berenas, Fred W.  
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Bistany, Matthew R.  
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Bogaerts, Patrick  
Bond, John L.  
Buresch, Gregory H.  
Burger, Carie L.  
Burns, Richard C.  
Burian, Rudolf  
Bustos, Leonardo  
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Canby, Frederick J.  
Carr, Craig R.  
Carr, Gary B.  
Cartier, Denise  
Chung, Gary S.P.  
Chvost, Noah  
Chubayev, Aidai A.  
Chugal, Nadia  
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Cohen, Philip W.  
Coory, Kirk A.  
Covani, Ugo  
Cregagh, Deborah K.  
Cummins, G. Reed  
Cunningham, Charles J.  
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D’Amato, Mario  
De Souza, Rena  
Dahl, Eva C.  
Dalton, B. Clark  
Davis, Matthew S.  
de Guzman, Joseph D.  
de Leonards, Dario  
Deveikis, Jason P.  
Dietz, Gerald C. Sr.  
Dorn, Samuel O.  
Dougherty, William J. Jr.  
Dougherty, James C.  
Dow, James R.  
Doyle, Diane L.  
Dracup, Scott A.  
Duarte, Lida  
Dumsha, Thom C.  
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Ellison, Robert L.  
Elmer, Derek A.  
Elmoum, El-Mohamed, Ali  
Euler, George J.  
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Fink, Howard B.  
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Fournier, Stuart B.  
Fowler, Janet  
Frick, Kenneth J.  
Friedman, Shulin  
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Gettleman, Bradley H.  
Glickman, Gerald N.  
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Goesman, John B.  
Golub, George T.  
Goodis, Harold E.  
Goodreau, Wanda F.  
Granados, Maria A.  
Gremillion, Henry A.  
Gutmann, James L.  
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Harrison, Thomas K. Jr.  
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O’Dell, Josiane  
Olerhead, Thomas R.  
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Olsen, Brian D.  
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Ira, Rodney D.  
Imura, Noboru  
Iwai, Yosuke  
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Janse, Scott A.  
Jensen, Scott A.  
Johnston, Bradford R.  
Johnson, Wm. Ben  
Johnson, William T.  
Jones, Deborah  
Jones, Paul A.  
Jurosky, Kathryn A.  
Justus, Yolanda V.  
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Kamal, Abu M.M.  
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Katz, Harmon R.  
Kiefer, Karl  
Klapper, John A.  
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Klein, Jennifer M.  
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Selbst, Alan G.  
Seif, Steve A.  
Shields, Daniel K.  
Shklinik, Gregory E.  
Shohel, Steven D.  
Short, Jeffrey A.  
Silvaggi, Joseph A.  
Silverman, Jack  
Simon, Denis E. III  
Simms, Eddy  
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Key
CEC = Continuing Education Course
GI = General Interest Session
LAS = Limited Attendance Session
SS = Scientific Session