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President's Welcome

Greetings to all who have reached the end of the yellow brick road and found the Emerald City—Seattle. I welcome all our members including international members and guests to the 54th Annual Session of the American Association of Endodontists!

The “Can you top this?” tradition continues as the annual session travels to the most spectacular site in the Pacific Northwest.

Browse through the pages of the program and plan your days and evenings. Don’t miss the high-tech educational opportunities, the sensational sights, and the tantalizing tastes of this remarkable meeting.

As you greet old friends, make new ones, and hurry from venue to venue, take a moment or two, as I will, to express your gratitude. Thank Kevin King, general chair; Kirk Coury, program chair; and Ken Spohnik, limited attendance chair; for their excellent planning. Thank Jim McGraw, Neil Bryant, and Maureen Swift for preparing Seattle for our meeting and preparing us for a great cultural, historical, and gustatory experience. Thank the AAE staff for all of their organizational efforts. Thank all those who make life easy for us during the meeting.

Education in an entertaining, enjoyable, beautiful setting is our goal. Seattle is this year’s OZ. Take advantage of all the wizardry offered—and when the week has ended, return home with an abundance of useful information and many pleasant memories.

Jerome V. Pisano, DDS, MS
President
AAE Board of Directors 1996–97

Jerome V. Pisano
President

Denis E. Simon III
President-elect

Carl W. Newton
Vice President

Jeffrey W. Hutter
Secretary

Harmon R. Katz
Treasurer

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Editor

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Immediate Past President

Irma S. Kudo
Executive Director

District I Directors
Gary R. Hartwell
1997

District II Directors
Kenneth N. Namerow
1998

District III Directors
Thomas E. Harvey
1997

District IV Directors
Roger R. Lacoste
1999

District V Directors
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1999

District VI Directors
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Christopher S. Wenckus
1997

David E. Stamos
1998

Gary S. Yonemoto
1997

Eva C. Dahl
1998

Jeffrey Hoover
1999

Mahmoud Torabinejad
1999

Annual Session Committee

Program
Continuing Education ........................................... Ronald W. Anderson
Limited Attendance Sessions ............................. Kenneth J. Spolnik
Oral and Poster Research Presentations .............. Gerald N. Glickman
Table Clinics ..................................................... Van T. Himmel
Exhibits ......................................................... Letty Catrambone

General Arrangements
Hospitality .......................................................... Maureen L. Swift
Hosts ..................................................................... Matthew A. Mandel
Monitors Co-Chair ............................................. Don H. Pratten
Monitors Co-Chair ............................................. Charles A. Backlund
Signs ................................................................... Gary A. Backlund
AAE Auxiliary Liaison ......................................... Sarma Davidson

Kevin T. King
General Chair

Kirk A. Coury
Program Chair

James C. McGrew
Local Committee Co-Chair

Neil W. Bryant
Local Committee Co-Chair
General Information

Please note: Unless otherwise indicated, ALL EVENTS will be held in the Washington State Convention & Trade Center.

AAE Headquarters Office

Room 601
AAE staff manages the office from 7 am-6 pm, Tuesday through Saturday.

Registration

Level 4 Lobby Atrium

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Tuesday, May 6</td>
<td>3-8 pm</td>
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<tr>
<td>Wednesday, May 7</td>
<td>7 am-8 pm</td>
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<tr>
<td>Thursday, May 8</td>
<td>7 am-5 pm</td>
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<tr>
<td>Friday, May 9</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 .......... Welcome Reception, all sessions and exhibits
& non-member student ............. Welcome Reception, all sessions and exhibits
Dental assistant or office ........ All sessions, exhibits, and breakfast and luncheons
administrato r ......................... Welcome Reception, all sessions, and AAE Auxiliary membership

Children ........................................ Welcome Reception

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 files in case of audit. AAE is an ADA CERP recognized provider.

Tape Recording

Teach' am, Inc. will record many of the sessions presented and also videocassette Scientific Sessions II, IV, and VI. The audio and video cassettes are available for purchase at the Level 6 Lobby of the Convention Center. Other audio or video taping is allowed only with the permission of the speaker.

Speaker AV Ready Room

Room 615

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.

Exhibits

Exhibit Hall

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

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Thursday, May 8</td>
<td>10 am-6 pm</td>
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<td>Friday, May 9</td>
<td>8 am-5 pm</td>
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<tr>
<td>Saturday, May 10</td>
<td>8 am-1 pm</td>
</tr>
</tbody>
</table>

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.

Web Site Demonstration

The AAE Information Booth, located in the exhibit hall, will display the AAE web site. There will also be information sessions about connecting to and using the Internet. If you have not had a chance to see the site and are interested in going online, don't miss this opportunity.

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 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 ten 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). Continuous bus service from the Sheraton, Cavanaugh, Crowne Plaza, Paramount, Plaza Park, and Roosevelt hotels to the Washington State Convention and Trade Center will begin at 6:15 pm. The last bus from the convention center to the hotels will depart at midnight.

Commemorative Tote Bags

You may be one of five lucky winners of free registration for the 1998 Annual Session in New York! You will receive a voucher for a free tote bag commemorating the 54th AAE Annual Session with your registration packet. Bring your voucher to the AAE Information Center in the Exhibit Hall to receive your complimentary tote bag and see if you're a winner.
Endodontic retreatment: The clinician’s perspective

Continuing Education Course
Wednesday, May 7, 8:30 am–4:45 pm (by ticket only—no on-site registration)
Grand Ballroom E
Moderator: Ronald W. Anderson, DDS, MS, Houston

Clifford J. Ruddle, DDS
Santa Barbara, CA

Frank M. Spear, DDS, MSD
Seattle

John D. West, DDS, MSD
Tacoma, WA

The role of the endodontist is rapidly evolving. As we enter the 21st century, the benchmarks of practice excellence will be professional leadership, impeccable patient care, and consistently successful results. Today's clinicians are often challenged when performing endodontic retreatment, yet they are still committed to improving tomorrow's outcomes and creating a future that distinguishes them as indispensable players on the total dental team.

AAE members Drs. Cliff Ruddle and John West will illuminate the opportunities of retreatment and address:
- How time, energy, expense, and prognosis influence the choice of endodontic retreatment versus restorative alternatives.
- How to overcome financial, technical, and emotional barriers of retreatment.
- The latest techniques and technologies.

Dr. Frank Spear, a prosthodontist and internationally recognized speaker, will address the restorative considerations of retreatment. This endodontist/restorative team approach is vital to a successful result. Dr. Spear will address how the team decides when to retreat or to extract and place an implant or bridge, as well as how to select the best materials to maximize protection, function, and esthetics and prevent coronal microleakage.

This program, designed by clinicians for clinicians, is intended to enhance practice possibilities; personal, professional, and patient satisfaction; and profitability. Join us on this exciting journey to build the exceptional endodontic practice.

The educational objective of this course is to teach each clinician how to decide between endodontic retreatment or removal and to describe the principles, techniques, and technologies selected to perform nonsurgical retreatment, surgical retreatment, and restorative excellence. At the conclusion, participants should be able to:
- Appreciate the interrelationships between root canal systems, portals of exit, and lesions of endodontic origin.
- Recognize the etiology of endodontic failure and select the appropriate treatment.
- Better perform the techniques required to manage all aspects of retreatment.
- Understand the steps to restoration predictability.
- Be inspired and challenged to achieve retreatment mastery.
- Create value, fun, and profitability.

Course Schedule

- 7–8 am ........................................... Continental Breakfast
  (Grand Ballroom C)
- 8:30–10:00 am .............................. Program
  (Grand Ballroom E)
- 10–10:30 am ................................. Morning Break
- 10:30 am–12 noon ......................... Program
- 12 noon–1 pm ............................. Lunch
  (Grand Ballroom C)
- 1–3:15 pm ..................................... Program
- 3:15–3:45 pm ............................. Afternoon Break
- 3:45–4:45 pm ................................ Program
Program

Please note: Unless otherwise indicated, ALL EVENTS will be held in the Washington State Convention & Trade Center.

WEDNESDAY, MAY 7

Welcome Reception
Postcards from Seattle
Grand Ballroom
7-9 pm
(by ticket only)
Discover Seattle's attractions via "Postcards from Seattle," and enjoy its wonderful cuisine with friends, family and colleagues at the Welcome Reception. Casual attire is appropriate.

THURSDAY AM, MAY 8

Opening Session Breakfast
Grand Ballroom A
8-10 am
(by ticket only)
Keynote: Jerome V. Pisano, DDS, MS
President, American Association of Endodontists

Exhibits
Exhibit Hall
10 am-6 pm

District Caucuses
10-10:45 am
District I
CT, DC, ME, MD, MA, PA, PR, RI, VT, VA
Room 304
District II*
NJ, NY
Room 308
District III*
Room 306
District IV*
IL, IN, KY, MI, OH, TN, WV, WI
Room 305
District V*
AL, AZ, AR, CO, IA, KS, LA, MN, MS, MO, MT, NE, NM, OK, TX, UT
Room 307
District VI
AK, CA, HI, OR, WA
Room 310

*These districts will nominate candidates to represent their districts on the Board of Directors for a three-year term beginning May 1998.

Affiliate Leadership Conference
Room 303
10:45 am-12 noon
AAE affiliate officers and AAE committee chairs are invited to attend this briefing on current AAE issues and activities.

Scientific Session I
Room 612
Moderator: Robert J. Rosenberg, DDS, DSCD
Greenbrae, CA
11 am-12:30 pm

Removal of canal obstructions and retreatment

Bradley H. Gettleman, DDS, MS
Glendale, AZ

This lecture will review the removal of canal obstructions, including radicular posts and core buildups, separated instruments, silver points, and obturating materials. At conclusion, participants should be able to:
- Describe an overview of armamentarium developed for retreatment.
- Describe the efficient and safe removal of intracanal objects, leaving a predictably restorable tooth.
- Describe considerations for nonsurgical versus surgical treatment.
- Describe the advantages of using a microscope for retreatment.

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, May 8. This year, each table seats ten people, so make arrangements early to enjoy this enchanting evening of sumptuous food, dancing, and splendor. Continuous shuttle busses for the Dinner Dance only will be available starting at 6:15 pm. For more details, see page three.

General Interest Session I
Room 608
Moderator: Gerald C. Dietz Sr., DDS
Bloomfield Hills, MI
11 am-12:30 pm

Creating and marketing the virtual endodontic office: Digital microvideography, digital radiography, and management systems

John A. Khademi, DDS, MS
San Leandro, CA
Martin D. Levin, DMD
Chevy Chase, MD

Year-over-year decreases in the price of new technology coupled with the improved connectivity of computers, the Internet, digital imaging systems, microscopes, and scanners are allowing for more cost-effective solutions to our computing needs. Since technological leadership has been shown to be an important influence on both referral patterns and patient perceptions of endodontic therapy, the stage is now set for a vast change in clinical and administrative practice.

This multimedia presentation will highlight advances in endodontic technology that will provide you with an understanding of what is available right now for your practice, insights on things to come, and marketing ideas to enhance referrals.

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

Commemorative Tote Bag
Exchange your tote bag voucher at the AAE Information Booth in the Exhibit Hall during exhibit hours to pick up your complimentary tote bag.
Program, continued

General Interest Session II
Room 616
Moderator: Jack A. Weichman, DDS
Pacific Palisades, CA
11 am-12:30 pm

Legal aspects of dentistry and risk prevention skills
Bruce H. Seidberg, 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 is recommended for the new endodontist by the Membership Services Committee.

*Speaker serves as a consultant and/or has a commercial interest in subject matter.
This session will not be taped.

Practitioners’ Platform
Room 604
Moderator: James L. Gutmann, DDS, Dallas
11 am-12:30 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. Case presentation format will encourage dialogue, challenges, and participation from the audience.

11 am
Complicated crown fracture of an unerupted permanent incisor
Paul V. Abbott, MDS, Balwyn, Australia

11:15 am
Labial and palatal ‘talon cusp’ on the same tooth
Paul V. Abbott, MDS, Balwyn, Australia

11:30 am
Retreatment via root-end
Hesham M. El-Tagouri, DMD, MDS, Snyder, NY

11:45 am
Periapical chronic abscess of the first right upper molar with an involvement of maxillary sinus and retrocurreolar region
Eduardo A. Ventura, DDS, Mexico City, Mexico

12 noon
The replantation of a knocked out tooth
Ricardo Caicedo, DDS, Santa Fe de Bogota, Colombia

12:15 pm
Closing remarks
James L. Gutmann, DDS

Oral Research Presentations I
Endodontist Section
Room 602
Moderator: Harold E. Goodis, DDS, San Francisco
11 am
Substance P induced vasodilation may depend on c-GMP levels
Yeung-Yi Hsu, BDS, MS (presenter), R. Wong, S. Simchon, B. Karabucak, & S. Kim, Univ. of Pennsylvania

11:15 am
Presence of nerve growth factor and trk A in human periapical lesions
Walter R. Bowles, DDS, MS (presenter), & K.M. Hargreaves, Univ. of Minnesota

11:30 am
SDS-PAGE and PCR for differentiation of Prevotella intermedia and P. nigrescens
Kwang Shik Bac, DDS, PhD (presenter), J.C. Baumgartner, T.R. Shearer, T. Xia, & L.L. David, Oregon Health Sciences Univ.

11:45 am
The effects of superoxide radical scavenging on rat pulps
Kirk R. Baumgartner, DDS, PhD (presenter), Univ. of Michigan

12 noon
Prostaglandin-bradykinin stimulated release of tCGRP in bony dental pulp
Harold E. Goodis, DDS (presenter), W.R. Bowles, & K.M. Hargreaves, Univ. of California & Univ. of Minnesota

12:15 pm
Analysis of the phosphorus content of dentin along the human root tooth
Konstantinos Verdelis, DDS (presenter), J.T. Wright, K. Hall, S. Yamauchi, M. Trope, & M. Yamauchi, Univ. of North Carolina

Oral Research Presentations II
Graduate Student Section
Room 603
Moderator: Timothy A. Svec, DDS
Houston
11 am
Corrosion in stainless steel and nickel titanium files
Orsue W. Stokes, DMD (presenter), P.M. Di Fiore, J.T. Barss, J.L. Gilbert, & E.P. Lautenschlager, Northwestern Univ.

11:15 am
In vitro biocompatibility analysis of boron-implanted nickel titanium
Trang (Jan) B. Nguyen, DDS (presenter), T. Serene & G.T. J. Huang, Univ. of California Los Angeles

11:30 am
Effect of sterilization on cyclic fatigue of NiTi instruments
Samuel B. Mize, DDS (presenter), D.J. Clement, D.L. Carnes Jr., & J.P. Pruitt, Univ. of Texas at San Antonio

11:45 am
SEM study of different irrigating solutions on dentinal walls after NiTi rotary instrumentation
Bekir Karabucak, DDS (presenter), R. Wong, C. Pypen, R. Weber, & S. Kim, Univ. of Pennsylvania and Univ. of Vienna, Austria

12 noon
Comparison of apically extruded debris amounts using bandpiece-driven NiTi instruments
Robin E. Hinrichs, DDS (presenter), W.A. Walker III, & W.G. Schindler, Wilford Hall USAF Medical Center & Univ of Texas at San Antonio

12:15 pm
Intracanal bacterial reduction with nickel titanium rotary instrumentation
B. Clark Dalton, DMD (presenter), D. Orstavik, & M. Trope, Univ. of North Carolina
Limited Attendance Sessions
Limited seating. NO standing
permitted.

LAS 1—Room 615
11 am-12:30 pm
Endoscope: An endodontic
application
Steven A. Hold, DDS, State College, PA
Yi How Kao, MD, State College, PA

The endoscope has revolutionized
surgical procedures in most medical
surgical specialties. An overview of
the endoscope and its application to
nonsurgical and surgical endodontic
procedures will be discussed. A
review of the maxillary sinus and
endodontic endoscopic sinus surgery
will also be presented.

LAS 2—Room 618
11 am-12:30 pm
Estate planning: Unless you
plan the distribution of your
estate, the government will
Larry Hogan, Seattle*

This workshop will discuss planning
techniques for immediate implementa-
tion to minimize taxation, provide
for surviving family, and allow giving to
your favorite charities.

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

LAS 3—Room 619
11 am-12:30 pm
The maxillary sinus: Its
implications in conventional
and surgical endodontic
procedures
Gerald W. Harrington, DDS, MSD
Seattle

Radiographic observations of diagnos-
tic value will be presented, including
projection effect, sinus recesses,
mucositis, periostitis, and mucous
retention cysts. Clinical implications of
these observations as they relate to
diagnosis, conventional root canal
treatment, and surgical approaches to
the maxillary sinus will be discussed.
This session will not be taped.

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

LAS 4—Room 620
11 am-12:30 pm
Hemostasis in periradicular
surgery
David E. Witherspoon, BDS, MS
Dallas

Modern endodontic surgical proce-
dures demand the need for hemor-
rhage control and surgical visibility.
This session will review all parameters
involved in achieving adequate
hemostasis during periradicular
surgery, including biological basis of
hemostasis, flap design, tissue reflection,
local anesthesia, and the use of
adjunctive hemostatic agents.

THURSDAY PM, MAY 8

American Board of
Endodontics
Louis I. Grossman Memorial
Luncheon
Grand Ballroom B
12:30-1:45 pm
(by ticket only)

Moderator: Sandra Madison, DDS,
MS, Asheville, NC

The opportunity
for learning never
ends

Lars Hollender, DDS, DScD, Seattle

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,
May 8. This year, each table seats ten
people, so make arrangements early
to enjoy this enchanting evening of
sumptuous food, dancing, and
splendor.

Visit the Exhibits
Be sure to stop by the Exhibit Hall,
place your orders, and say thanks to
the exhibitors who help defray annual
session costs.

Scientific Session II
Room 608
Moderator: Paul J. Ashkenaz, DDS
Chicago

2-4 pm
Microsurgical
armamentarium:
Development and
application

Richard A. Rubinstein, DDS, MS
Farmington Hills, MI

Understand the evolution and function
of the various instruments, materials,
and devices currently being used in
endodontic microsurgery. At con-
clusion, participants should be able to:

- Identify and describe the function
  of different instruments, materials,
  and devices used in different
  stages of microsurgery.
- Select specific instruments,
  materials, and devices to accom-
  plish predictably favorable surgical
treatment outcomes.
- Understand the criteria and
  techniques for properly mixing
  SuperEBA cement in varying
  conditions for use as a root-end
  filling material.

4-5 pm
Mechanisms of
healing following
periradicular
surgery

John W. Harrison, DMD, MS, Dallas

The sequential healing events that
lead to complete and rapid wound
healing following periradicular surgery
will be discussed. At conclusion,
participants should be able to:

- Describe the varied responses of
  the soft and hard tissues to surgi-
  cal wounding.
- Understand the mechanisms
  responsible for repair of cancel-
  lous and cortical bone, and for
  reformation of an apical attach-
  ment apparatus associated with
  the resected root end.

This session will be videotaped.
Scientific Session III
Room 612
Moderator: Richard E. Walton, DMD, MS, Iowa City, IA

2-5 pm
Inflammation: Practical applications in endodontics

Mahmoud Torabinejad, DMD, MSD, PhD, Loma Linda, CA

Endodontists should have fundamental knowledge of the role of inflammation in pulpal and periradicular pathosis and its effects on symptoms, pathologic mechanisms, and the healing process. At conclusion, participants should be able to:

- Describe causes and types of inflammation and inflammation mediators.
- Understand the role of inflammatory mediators in pathological changes in pulpal and periradicular pathosis.
- Describe pain control during endodontic emergencies.
- Understand healing following vital pulp therapy, nonsurgical treatment, and surgical treatment.

College of Diplomates
Room 604
Moderator: Stuart B. Fountain, DDS, MSC
Greensboro, NC

2-5 pm
Calling all diplomats—Pass it on

Leif K. Bakland, DDS
Loma Linda, CA
Albert C. Goerg, DDS, MS
Olympia, WA
M. Lamar Hicks, DDS, MS
Silver Spring, MD
Thomas O. Mork, DDS
Herndon, VA
Martha E. Proctor, DDS
Chicago
Eric M. Rivera, DDS, MS
Iowa City, IA
Louis E. Rossman, DMD
Philadelphia

This session will provide training for diplomates to become qualified and calibrated mentors for candidates for the current Board Examinations of the American Board of Endodontics. A mentoring manual will be distributed and discussed. The manual contains guidelines to assist those taking the written or oral exam, as well as those preparing their case portfolios. In addition, there will be a status report and business meeting of the College of Diplomates. All members and prospective members of the College are urged to attend.

Limited Attendance Sessions
Limited seating. NO standing permitted.

LAS 5—Room 615
2-3:15 pm
Factors influencing prognosis of root canal treatment
Louis M. Lin, DMD, PhD, Newark, NJ

Recent studies indicate that persistent infection in the root canal or periapical area of endodontically treated teeth is the important cause of periapical inflammation. This presentation will critically review the factors commonly attributing to endodontic failures.

LAS 6—Room 616
2-3:15 pm
Meet the challenge of retreatment using the operating microscope
Bertrand G. Khayat, DDS, MSD
Paris

In a very short period of time, the use of the operating microscope has become part of the routine of endodontic practice. This has dramatically enhanced the performance of our treatment and enabled us to retreat cases that were impossible in the past. Locating canals, repairing perforations, and removing broken instruments will become reliable procedures.

LAS 7—Room 618
2-3:15 pm
How and why we do what we do
Duane E. Compton, DDS
Longboat Key, FL*
James R. Miller, MBA, MA, CFC
Geneva, IL

Each of us has a natural talent, an instinctive method of operation that enables us to be productive. This presentation identifies instinctive strengths or natural talents. The system presented will assist you in indexing how people take action, forecasting and improving work group results, screening job candidates, assessing career options, and realizing a part of your spousal relationship.

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

LAS 8—Room 619
2-3:15 pm
Nonodontogenic toothache
George A. Zurkow, DDS
Wilmington, DE

Diseases and syndromes that cause nonodontogenic toothache are the subject of the presentation. This knowledge will assist the endodontist in treatment or referral to the appropriate specialist without delay.

Badges
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LAS 9—Room 620

2–3:15 pm

Critical assessment of contemporary root-end filling materials
James C. Douthitt, DDS, MS
Amarillo, TX
James L. Gutmann, DDS, Dallas

Historically, a variety of root-end filling materials have been used. In the past 5–10 years, a new group of restorative materials has been suggested to fill the surgical root-end preparation. This presentation will compare clinical, radiographic, and histologic findings from many of the advocated materials.

3:15 pm

Relationship between apical leakage and clinical success of root fillings
Paul V. Abbott, MDS (presenter), & C.M. Oliver, Univ. of Melbourne & Univ. of Western Australia, Australia

3:30 pm

Effect of a base on coronal endotoxin leakage of endodontically treated teeth
Jacinta M. Menezes, DDS, MDS (presenter), L. Lin, New Jersey Dental School

3:45 pm

In vitro bacterial penetration through provisory restorative materials in endodontically treated teeth
Noboru Imura, DDS (presenter), S.M. Otani, M.L. Zuolo, M.J. Avila-Campos, & E.G. Jardim Jr., PAEO Institute & USP, Brazil

4 pm

Microleakage between endodontic temporary restorative materials placed at different intervals
Shue-Fen Yang, DDS, MS (presenter), S.F. Pai, & K.H. Chung, Taipei Veterans General Hospital & National Yang-Ming Medical Univ., Taiwan

4:15 pm

Sealing ability of cured resin in the repair of furcation perforations
Sonia M. Otani, DDS (presenter), N. Imura, M.L. Zuolo, G. Hata, & T. Toda, PAEO Institute, Brazil & Osaka Dental Univ., Japan

4:30 pm

Effect of bleaching agents on dental amalgam in vitro: A histochemical study
Ilan Rotstein, CD (presenter), C. Mor, & J.R. Arwaz, Hebrew Univ. Israel

4:45 pm

The depth of hemoglobin penetration into dentin
Linda Ricks-Williamson, DDS, MS (presenter), & R.E. Walton, Univ. of Iowa

Oral Research Presentations IV
Graduate Student Section
Room 603
Moderator: Mary T. Pettiette, DDS
Chapel Hill, NC

2 pm

A comparison of nickel titanium versus stainless steel spreaders in curved canals
Colleen C. Shull, DMD (presenter), R.J. Loushine, & L.A. West, US Army Dental Activity

2:15 pm

Toxic effects of dentin bonding agent components on human macrophages
Douglas R. Rakich, DDS, MA (presenter), J.C. Wataha, C.A. Lefebvre, & R.N. Weller, Medical College of Georgia

2:30 pm

Comparison of four electronic apex locators in determining canal length
Kevin T. Nii, DDS (presenter), Y. Igarashi, Y.T. Jou, & S. Kim, Univ. of Pennsylvania

2:45 pm

Do gutta-percha solvents affect the precision of apex locators
Blaine E. Mowrey, DMD (presenter), P.M. DiFiore, W.C. Noblett, & E.P. Lautenschlager, Northwestern Univ.

3 pm

Apical extent of rotary canal instrumentation with an apex locating bandpiece in vitro
David A. Campbell, DDS (presenter), H.Q. Nguyen, & S. Friedman, Univ. of Toronto, Canada

3:15 pm

Comparison of measurement length as determined by conventional radiography and computed dental radiography

3:30 pm

Effect of lossy compression on DDI working length radiographs
Erich A. Dittmar, DDS (presenter), J.J. Legan, C.E. Brown, & M. Analoui, Indiana Univ.

continued on next page
Oral Research Presentations IV
continued

3:45 pm
The effect of canal instrumentation on s-shaped canals
Kevin M. O’Dea, DDS (presenter), M.M. Wang, T.A. Svec, J. Hoover, & M.R. Rieger, Univ. of Texas at Houston

4 pm
Retreatment of Thermafil obturated root canals with a new “System B” technique or solvent
James E. Wolcott, DDS (presenter), V.T. Himel, M.L. Hicks, Univ. of Tennessee, & Albert Einstein Medical Center

4:15 pm
Intracorpus seating of gutta percha obturated root canals to prevent coronal microleakage
Donna M. Pisano, DDS (presenter), P.M. DiFiore, S. McClanahan, & J. Duncan, Northwestern Univ.

4:30 pm
Longitudinal fluid conductance study of two root-end filling materials
Jon D. Yatsushiro, DDS (presenter), J.C. Baumgartner, J.S. Tinkle, Oregon Health Sciences Univ.

4:45 pm
Determining PDL cell viability in Gatorade and milks of varying fat content
Orest M. Harkacz Jr., DDS (presenter), D.L. Carnes Jr., & W.A. Walker III, Wilford Hall USAF Medical Center & Univ. of Texas at San Antonio

Limited Attendance Sessions
Limited seating. NO standing permitted.

LAS 10—Room 615
3:30–5 pm
The endodontist as a witness
Jack A. Weichman, DDS, JD
Pacific Palisades, CA

With our litigious society, the endodontist is called on to testify both as a percipient witness and as an expert witness. Which are you? Will you be paid? By whom and how much?

LAS 11—Room 616
3:30–5 pm
Immediate core buildups: The rest of the seal
Denny W. Southard, DDS, MSD
Tulsa, OK

Coronal microleakage is the enemy—one of the major causes of endodontic failure. This presentation will review potential problems with the current standard of merely “temporizing” the coronal aspect of a tooth following endodontic treatment. A better approach is to place an immediate core at the time of the endodontic obturation.

LAS 12—Room 618
3:30–5 pm
Pulpal injury models in animals: Neuroinflammatory interactions and pain
Margaret R. Byers, PhD, Seattle

Experimental studies show that dental nerves have many chemical interactions with pulp that differ for normal, injured, or inflamed conditions. The inflammatory interactions contribute to hypersensitive dentin pain and the “hot” tooth syndrome.

LAS 13—Room 619
3:30–5 pm
Endodontic problem solving
Harris B. Levine, DDS, Lyndhurst, OH

Endodontic practices encounter increasing numbers of challenges, including calcifications, obstructions, retreatments, perforations, and resorptions. Successful management utilizing ultrasonics, barriers, microscopes, and 3-D clean, shape, and pack strategies will be presented.

LAS 14—Room 620
3:30–5 pm
Withdrawal, removal, retrieval of separated objects in root canals
Frederick H. Kahn, DDS, New York

New technologies enable the endodontist to remove separated objects from a root canal. The use of ultrasonic devices, the operating microscope, and a variety of commercially available kits will be discussed.

FRIDAY AM, MAY 9

Continental Breakfast
Exhibit Hall
8–8:45 am
(by ticket only)

Exhibits
Exhibit Hall
8 am–5 pm

Scientific Session IV
Room 608
Moderator: Richard C. Burns, DDS
San Mateo, CA

9 am–12 noon

Advanced endodontic microsurgery
Syngouk Kim, DDS, PhD
Philadelphia
Gabrielle Pecora, MD, DDS, Rome

Basic and advanced microsurgical techniques for simple and complicated apical pathology with and without periodontal involvement will be presented. At conclusion, participants should be able to:

• Describe effective hemostasis and management of mental foramen and sinus during endodontic microsurgery.
• Describe the utility of the membrane barrier technique and calcium sulfate paste in endodontic surgery involving endodontic/periodontal communication.
• Describe the basic principles governing endodontic microsurgery and their scientific foundation.

This session will be videotaped.

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.


**Special Interactive Session**

Grand Ballroom C  
Moderator: John S. Olmsted, DDS, MS  
Greensboro, NC

**9 am–12 noon, 2–5 pm**  
*Making choices in daily endodontic practice*

James L. Gutmann, DDS, *Dallas*  
Joseph D. Maggio, DDS, *Oak Brook, IL*

Join other endodontists for an exploration of the choices made in daily practice. The presenters will show a scenario in which the practitioner must make a decision. You will then give anonymous input from your seat via an electronic key pad. You will see immediate computer-tabulated results showing how others in the room would respond in the same situation. Discussion will continue with the opportunity to challenge choices made and provide direction. In this interactive learning environment, you and your colleagues will explore contemporary philosophies of endodontic practice, learning from the presenters and each other, and improving your decision-making skills through shared experiences.

The session will be divided into morning and afternoon segments. The morning will feature emergencies, consultations, patient-doctor-staff interactions, working with referring colleagues, and more. The afternoon will focus on clinical decision making—diagnostic dilemmas, technical challenges, and assessment of treatment rendered.

This session will not be taped.

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**Scientific Session V**

Room 612  
Moderator: Leif K. Bakland, DDS  
Loma Linda, CA

**9 am–12 noon**  
*Pulpal management of traumatic injuries and caries in developing teeth*

Joe H. Camp, DDS, MSD  
Charlotte, NC

Diagnosis and treatment of pulpal involvement occurring as a result of caries or trauma during tooth development will be discussed. At conclusion, participants should be able to:

- Better understand tooth formation and prevent treatment errors related to tooth development.
- Understand methods for conservative management of the pulp following trauma and caries in young teeth.
- Know differences in pulpal management of trauma and caries in incompletely and fully formed teeth.
- Have as their goal preservation of pulpal vitality until root formation is complete.

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**General Interest Session III**

Room 610  
Moderator: A. Scott Cohen, DDS  
Concord, CA

**9 am–12 noon**  
*“Getting started” setting up your specialty practice*

Sue Panak, *Kinsman, OH*

During this presentation various issues will be discussed: purchasing or establishing a private practice; developing and expanding a referral base; and relocating an established specialty practice. This course offers guidelines for steps to be taken to achieve a desired “getting started” task. The attendee will leave with insight on how to choose a location, establish a line of credit, staff the office, and purchase equipment.

This session is recommended for doctors and their staff.

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**Oral Research Presentations V**

Graduate Student Section  
Room 603  
Moderator: Robert R. White, DMD  
Boston

**9 am**  
*The effect of demineralization of resected root ends on cementogenesis*

Hamid R. Abedi, BDS, LDS (presenter), M. Torabinejad, & P. McMillan, Loma Linda Univ.

**9:15 am**  
*Detection of a collagenase gene in P. gingivalis and P. endodontalis from endodontic infections*

Lynnetta J. Odell, DMD (presenter), J.C. Baumgartner, T. Xia, & L.L. David, Oregon Health Sciences Univ.

**9:30 am**  
*Microleakage of endodontically treated teeth restored with posts*

William S. Bachicha, DDS (presenter), P.M. DiFiore, D.A. Miller, E.P. Lautenschlager, & D.H. Pashley, Northwestern Univ.

**9:45 am**  
*Perforation repair comparing mineral trioxide aggregate and amalgam*

Todd T. Nakata, DDS (presenter), K.S. Bae, & J.C. Baumgartner, Oregon Health Sciences Univ.

continued on next page
Endodontic Educators’ Forum

The AAE Foundation: Research and education
Room 604
Moderator: Billie G. Jeansonne, DDS, PhD, New Orleans
AAE Foundation Trustee

9-11 am
Endodontic educators are acutely aware of the political and economic forces that impact endodontics. Join colleagues to discuss the challenges educators are facing and to learn how the AAE Foundation endowment fund can strengthen education and enrich the specialty.

9 am
Expanding agendas
Herbert Schilder, DDS, Boston
AAE Foundation President

The AAE Foundation has had overwhelming success in recent years in fundraising and in establishing an endowment fund. This success has allowed the Foundation to maintain an exciting level of support of increasingly sophisticated research proposals.

9:15 am
Research: Priorities for endodontics
Gerald N. Glickman, DDS, MS
Ann Arbor, MI
Research and Scientific Affairs Committee Chair

The Foundation depends upon the Research and Scientific Affairs Committee to collect, evaluate, and rank the research proposals submitted by graduate students, faculty, and practitioners. A significant component of the evaluation process is relevance to established research priorities.

9:30 am
Research proposals: Review and funding
Cindy R. Rauschenberger, DDS, MS
Oak Brook, IL
AAE Foundation Trustee and Liaison to Research and Scientific Affairs Committee

In addition to relevance to established priorities, each proposal is evaluated for scientific merit to determine a rank order of priority. Appropriate levels of funding disbursements are decided by the AAE Foundation. These funds are distributed to the proposals in this rank order until all funds are depleted. Discussion will also address the development of good research ideas and provision for assistance through constructive critiques to nonfunded applicants to improve chances for funding on subsequent applications.

9:45 am
The other mission: Endodontic education
Mahmoud Torabinejad, DMD, MSD, PhD, Loma Linda, CA
AAE Director and Friends of the Foundation Chair

As the endowment grows, the Foundation is investigating methods of further supporting its “other” mission: endodontic education. Support of research is indirect support of education and is an effective means of promoting endodontics in the academic environment.

10-11 am
Open Discussion

The Foundation’s challenge is to use limited resources in the most effective manner. An open discussion will follow the presentations for participants to comment on the forum’s theme.

Oral Research Presentations V continued

10 am
The protective role of activated lymphocytes in lesions of endodontic origin
Armando R. Mejia, DMD (presenter), R. Teles, P. Stashenko, H. Schilder, & D. Graves, Boston Univ.

10:15 am
Endotoxin leakage of four root end filling materials
Hong-Ming Tang, DDS (presenter), S.G. Morrow, J.D. Kettering, & M. Torabinejad, Loma Linda Univ.

10:30 am
BREAK

10:45 am
Evaluation of a minimally traumatic trephination procedure on postoperative endodontic symptoms
Vicki M. Houck, DDS, MS (presenter), A. Reader, R. Nist, M. Beck, & J. Weaver, Ohio State Univ.

11 am
Comparison of three obturation techniques: An evaluation of root fracture resistance
Michael J. Apicella, DDS (presenter), R.J. Loushine, L.A. West, & D.A. Runyan, US Army Dental Activity

11:15 am
Surgical wound healing response to alkaline phosphatase and phosphophoryn
David E. Witherspoon, BDS, MS (presenter), & J.L. Gutmann, Baylor College of Dentistry

11:30 am
The effects of a resorbable membrane and hOP-1 on tissue healing following endodontic surgery

11:45 am
The supplemental intrasosseous injection of 3% mepivacaine in irreversible pulpitis
Deron J. Reisman, DDS, MS (presenter), A. Reader, R. Nist, M. Beck, & J. Weaver, Ohio State Univ.

Insurance Questions?
Trelar and Heisel has been the endorsed administrator of insurance programs for the AAE for more than 17 years. Stop by their booth in the Level 6 Lobby.
Limited Attendance Sessions
Limited seating. NO standing permitted.

LAS 15—Room 619
9-10:15 am
The cast gold post and core revisited: An integral part of endodontic care
Manuel I. Weisman, DDS, Augusta, GA

Endodontic treatment is not an end in itself. Often a post and core must be made to supply artificial dentin for a crown. This presentation will illustrate a complete technique for an integrated cast gold post and core within the endodontic office environment with a thorough discussion of temporization. The results of a recent survey of post and core education in endodontic graduate programs will be displayed.

LAS 16—Room 616
9-10:15 am
Internal bleaching: From science to practice
Ilan Rotstein, CD, Jerusalem

Discoloration of anterior teeth is a cosmetic problem that can often be successfully corrected by bleaching. The successful outcome depends mainly on the etiology, correct diagnosis, and proper selection of bleaching technique. Internal bleaching has occasionally been associated with root resorption. This complication was reported in humans as well as in experimental animal studies. In this presentation, the etiology of bleaching-induced root resorption and its prevention will be discussed based on clinical and experimental data.

LAS 17—Room 618
9-10:15 am
Basics of endodontic surgery
David J. Dickey, DMD, Augusta, GA

This session will include preoperative considerations, including systemic anatomical, and their relationship to the success potential of specific techniques. Specific microsurgical techniques will be presented, followed by postoperative measures and follow up to ensure success.

LAS 18—Room 619
9-10:15 am
Financial planning and investment fundamentals: What we all need to know but were never taught
Richard Leffel, DMD, MBA
Monroeville, PA

The presentation will cover basic tax, retirement, and estate planning considerations for both personal and professional financial planning. Fundamental investment information emphasizing risk management, diversification, and asset allocation will also be discussed. At the conclusion of the presentation, participants will be able to determine their retirement goals and develop funding and investment strategies to attain these goals.

LAS 19—Room 620
9-10:15 am
Presto! Apexification!
Henry L. Herbet, DMD, Everett, WA

One-step apexification with tricalcium phosphate offers these advantages over lengthy Ca(OH)2 treatment: dramatically shorter treatment time, expanded access to care due to lower cost, aesthetic benefit, and far fewer radiographs.

Poster Research Presentations
Endodontist Section
Exhibit Hall
9 am-12 noon

PR 1
Efficacy of irrigation in debridement of apical deltas
B. Peter Austin, DDS, PhD, Milwaukee

PR 2
Hyperplastic chronic pulpitis: Clinical and histopathological description in human teeth
Ricardo Caicedo, DDS, & Hernan Becerra, DDS, Santafe de Bogota, Colombia

PR 3
Viability of PDL in teeth stored in three physiologic solutions
Juan G. Escobar, DDS, & Oscar J. Quintero, DDS, Santa Fe de Bogota, Colombia

PR 4
Caries lactobacilli and a Th1 response
Chin-Lo Hahn, DDS, PhD, Richmond, VA

PR 5
Effectiveness of oxidative potential water as root canal irrigant
Gin-Ichi Hata, DDS, Osaka, Japan

PR 6
Canal configuration of the mesiobuccal root of the maxillary first molar of Japanese patients
Shigeru Hayami, DDS, PhD, Osaka, Japan

PR 7
Double canals in mesiobuccal roots of maxillary molars
Noboru Imura, DDS, & Sonia M. Otani, DDS, Sao Paulo, Brazil

PR 8
Effect of new rotary instruments on distal root walls of first lower molars
Carlos R. Cantillo, DDS, Santafe de Bogota, Colombia

PR 9
Tissue levels of cytokines in pulpal and periapical pathosis
Hyunjung Ko, DDS, & Sung Sam Lim, DDS, MSD, Seoul, Korea

PR 10
Selectivity of amoxicillin on strict anaerobes present in dentoalveolar abscesses
Monica Leano, DDS, & Claudia M. Atuesta, DDS, Santafe de Bogota, Colombia

PR 11
Post-endodontic treatment evaluation of HIV-infected patients
Debora F. Levine, DDS, Houston

PR 12
Intraosseous implantation for biological evaluation of three retrofilling materials
Kan-Ichi Nakagawa, DDS, PhD, Chiba, Japan

PR 13
Effects of G-CSF injections on periapical lesion development in rats
Hiroshi Nakamura, DDS, PhD, Nagoya, Japan

continued on next page
Poster Research Presentations

PR 14
Procedural errors by undergraduate students with the use of K-files vs. NITI files
Mary T. Pettiette, DDS, Chapel Hill, NC

PR 15
Evaluation of endo-treatments at endodontic grad-clinic of COC between 1992-1995
Amelia Sarmiento, DDS, & Elizabeth Cendales, DDS, Santa Fe de Bogota, Colombia

PR 16
Connective tissue ingrowth after foramen enlargement in dogs: Two years observation
Francisco J. Souza Filho, DDS, & Carlos A.E. Murgel, DDS, Sao Paulo, Brazil

PR 17
Comparative analysis of lesions in normal stiiladenectomized, stiiladenectomized-immunosuppressive rats
Fabricio B. Teixeira, CD, Sao Paulo, Brazil

PR 18
Somatosensory latency of upper-lower maxillary nerves in periapical surgery patients
Maria F. Velasquez, DDS, & Martha L. Suarez, DDS, Santa Fe de Bogota, Colombia

PR 19
In vitro evaluation of five apex locators
Harmeen D. Walia, DDS, MDS, MS, Milwaukee

PR 20
Longevity of antimicrobial activity of calcium hydroxide in vitro
Mr. David E. Wilson, Univ. of Iowa

PR 21
An in vitro evaluation of cleaning efficacy of rotary files
Mr. Ron Wright, Univ. of Tennessee

PR 22
Co-localization of a large proteoglycan and link protein in the dental pulp
Shizuko Yamauchi, DDS, MS, Chapel Hill, NC

Table Clinics

Endodontist Section
Exhibit Hall
9 am-12 noon

TC 1
In vitro root surface temperatures produced by an electrically heated plugger system, the system B heat source, with the use of infrared thermography
Anthony P. Bastulli, DDS, & Gregory B. Wiggins, DMD, Baltimore, MD

TC 2
Treatment philosophy of teeth with fractured roots: A five-years report
Paolo Borelli, DDS, & Pasquale Alibrandi, DDS, Rome, Italy

TC 3
An engine driven root canal preparation with the TriAuto ZX
Chihiro Kobayashi, DDS, PhD, & Takamori Yoshioka, DDS, Tokyo

TC 4
KP cube evaluation of various filing techniques and instruments
Scott L. Marcum, DDS, & Grant E. Marucci, DDS, Mexico

TC 5
A new challenge to get to the apex: The RBS
Franklin Pineda, DDS, & Sergio Kuttler, DDS, Mexico

TC 6
Photographic documentation in clinical endodontics
Lee A. Taito, DMD, Ann Arbor, MI

New York Travel Mugs
Be sure to visit the 1998 Annual Session Display, located in the AAE Information Center in the Exhibit Hall, and exchange your voucher for a free travel mug (while supplies last).

AAE Online
Be sure to stop by the AAE Information Booth to see the AAE web site and learn about connecting to and using the Internet.

Limited Attendance Sessions

Limited seating. NO standing permitted.

LAS 20—Room 615
10:30 am-12 noon
The art of intentional replantation and transplantation: Predictable techniques to save hopeless teeth
S. Craig Schneider, DDS
Marriottsville, MD

Intentional replantation and autotransplantation of mature teeth have recently been shown to have a success rate between 95 and 98 percent. Long-term success implies reattachment and healing of the periodontium and requires the elimination and prevention of endodontic pathogens. The lecture will present eight years of clinical experience from more than 150 cases and emphasize new techniques and applications to save teeth previously considered hopeless.

LAS 21—Room 618
10:30 am-12 noon
Endodontics on wild and endangered charismatic animals
James C. McGraw, DDS
Bellevue, WA
William D. Powell, DDS, MS
Knoxville, TN
W. Paul Brown, DDS, Palo Alto, CA

Endodontists serve at the forefront, as valuable clinical members of modern zoo veterinary health teams, seeking to conserve exotic endangered animals for future generations to know and appreciate.

LAS 22—Room 620
10:30 am-12 noon
A futuristic look at the treatment of the avulsed tooth
Martin Trope, BDS, DMD
Chapel Hill, NC

Many in the dental community have questions about recent recommendations for the treatment of the avulsed tooth. This presentation will cover the rationale behind some of the recommended changes and discuss possible future changes in light of current research in the field.
**Endodontic Ancillary Personnel Program**

**Practice excellence and efficiency for the endodontic team**
Room 616  
Moderator: Terry J. Smorang, DMD, Calgary, AB

**Friday, May 9, 10:30 am-12 noon**
Albert C. Goerig, DDS, MS  
Olympia, WA

This fun program will focus on many helpful hints and time-saving techniques that will aid the dental team in obtaining predictable and high quality endodontic results while moving their practice to the next level of excellence. Areas of discussion: communication skills, simplified diagnosis, radiographic interpretation and technique, control of pain and infection, review of new technology, and practice management.

_This session is recommended for endodontic dental assistants._

**General Interest Session IV**
**Collect at time of service—like magic**
Room 610  
Moderator: Albert M. Jowid, DDS, Dallas

**Friday, May 9, 2-5 pm**
Patrick Wahl, DMD  
Wilmington, DE*  
Lorraine Hollett  
Wilmington, DE

Be a part of this presentation that will involve the audience and offer solutions to our common problems of collection. Tapes of actual patient conversations will be played to demonstrate the team effort of collecting the payment due. In this session, participants will be able to: 1) understand how an effective financial policy enhances excellence in every aspect of the practice; 2) create an effective financial policy for their practice; 3) learn scripts that work and avoid counterproductive phrases; 4) understand newer payment options such as preauthorized checking and healthcare credit cards and determine which systems best suit the needs of their practice; and 5) get paid for what the practice produces and receive thank you after thank you from grateful patients.

_This session is recommended for doctors and their staff._  
*Speaker serves as a consultant and/or has a commercial interest in subject matter._

_This session will not be taped._

**ADA procedure codes for endodontics**
Room 619  
Moderator: James Howard, DDS, MS, Holland, MI

**Friday, May 9, 10:30 am-12 noon**
Howard B. Fine, DMD, Rochester, NY

This presentation is for those endodontic offices who handle third party and benefit claims. The format is an open discussion that will help you facilitate claims handling and explain why it is important to provide feedback to the AAE on the problems you are experiencing.

_This session is recommended for endodontic administrative and front office personnel._

**General Interest Session V**
**How to triple referrals to the endodontic practice**
Room 608  
Moderator: Hedley Rakusin, BDS, MSC, Dallas

**Saturday, May 10, 9 am-12 noon**
Roger P. Levin, DDS, MBA, Baltimore*

This unique seminar was created to help endodontists enjoy unlimited growth and success and meet the challenges of increasing competition and change. The most significant key to the future development of endodontic practices is to increase referrals. This seminar presents effective marketing strategies for establishing and maintaining intensive referral relationships with general dentists. This course emphasizes the importance of motivating staff and explains their significant role in the marketing and relationship process.

_This session is recommended for doctors and their staff._  
*Speaker serves as a consultant and/or has a commercial interest in subject matter._

_This session will not be taped._
Program, continued

AADS Endodontic Section Meeting
Room 604
11 am-12 noon

FRIDAY PM, MAY 9

Award Luncheon
Grand Ballroom A
Moderator: Kirk A. Coury, DDS, MS
Amarillo, TX

12 noon-1:45 pm
(by ticket only)

President's Award
Peter A. Paesani, DDS
Rockford, IL

The President's Award is presented to a member who, behind the scenes, has unselfishly given time and talent to the AAE during his or her professional career.

Scientific Session VII
Room 612
Moderator: Kenneth M.
Hargreaves, DDS
Minneapolis, MN

2-5 pm
Treating and beating endodontic infections
J. Craig Baumgartner, DDS, MS, PhD, Portland, OR

Treatment rationales for the management of infections of endodontic origin will be presented. At conclusion, participants should be able to:
- Describe the significance of bacteria in pulpal and periradicular tissues.
- Describe methods for effective drainage to include aspiration, incision for drainage, trephination, and decompression.
- Discuss a hierarchy of analgesics and antibiotics for supportive therapy.

General Interest Session IV
Room 610
2-5 pm
(See page 15 for description.)

Oral Research Presentations VI
Endodontist Section
Room 602
Moderator: Richard E. Walton,
DMD, MS, Iowa City, IA

2 pm
Quantitative pulp diagnostic by means of optical transillumination
Benjamin M. Bisdendo, DDS (presenter),
A. Pistorius, H. Heusmann, G. Mite, &
G. Solknar, Univ. of Mainz, & Siemens
Ag. Research and Development Dept.,
Germany

2:15 pm
A comparison of digitized radiographic images using histogram analysis
W. Frank Kimbrough, DDS, MS
(presenter), B.J. Potter, R.V. Weller, &
M.K. Shrot, Medical College of
Georgia

Scientific Session VI
Room 608
Moderator: Gerald N. Glickman, DDS, MS
Ann Arbor, MI

2-5 pm
Point/counterpoint: The nickel-titanium paradigm in endodontics

Although the recent introduction of nickel-titanium (NiTi) metal in endodontics is claimed to have revolutionized clinical practice, a number of practitioner concerns have arisen. Some of these issues include unconventional instrument designs with variable tapering, quality control, and cyclic fatigue. This scientific session will highlight the scientific and clinical basis for NiTi instrumentation and will address the various pros and cons as reported via an extensive AAE membership survey. Interactive dialogue between the speakers and audience will follow each speaker's presentation. At conclusion, participants should be able to:
- Describe the scientific basis for NiTi endodontic instruments.
- Describe the principles of NiTi multi-tapered instrumentation.
- Discuss various clinical protocols and controversies associated with NiTi systems.
- Understand the mechanisms for both preventing and managing clinical problems with NiTi instruments.
- Modify their own NiTi techniques based upon scientific principles, survey outcomes, and interactive dialogue.

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

This session will be videotaped.
2:30 pm
Reliability of identification of the "widened" periodontal ligament
Richard E. Walton, DMD, MS (presenter), & R. Burche, Univ. of Iowa

2:45 pm
Evaluation of an electronic apex locator in vital and necrotic canals
Nijole A. Remelikis, DDS (presenter),
C.A. Dunlap, C.R. Rauschenberger, &
E.A. Begole, Univ. of Illinois at Chicago

3 pm
Tooth replantation success in dogs with saline, milk, dry and HBSS
Yi-Tai Jou, DDS (presenter), R. Wong,
S.H. Baek, Y.Y. Hsu, H. Plenk Jr., &
S. Kim, Univ. of Pennsylvania & Univ. of Vienna, Austria

3:15 pm
Periodontal healing after systemic use of amoxicillin and tetracycline
after replantation of dogs teeth
Yarawan Sae-Lim, DDS (presenter), C.
Wang, M. Trope, Univ. of North Carolina

3:30 pm
Assessment of the viability of PDL cells using a collagenase assay
Roberta Pileggi, DDS, MS (presenter),
T. Dumsha, V. Despotis, & J.E. Nor, Univ.
of Michigan & Univ. of Maryland

3:45 pm
Single-tooth implants in endodontics: Results and experiences of a
retrospective study after four years
Ramon E. Hernandez, DMD (presenter),
& T.J. Balshi, Institute for Facial Esthetics

4 pm
Tibia and mandible reactions to
implanted root end filling materials
Thomas R. Pitt Ford, BDS, PhD (presenter),
M. Torabinejad, H.R. Abedi,
H.M. Tang, Loma Linda Univ. & Univ. of London

4:15 pm
Colonization of dentin by E. faecalis
following treatment with
clorhexidine
Richard C. Komorowski, DDS (presenter),
S. Friedman, Univ. of Toronto,
Canada

4:30 pm
Surface temperature rise during CO₂
laser irradiation in root canal
Wan-Hong Lan, BMS, DDS, DDSc
(presenter), National Taiwan Univ.

American Board of Endodontics
Room 604
Moderator: Sandra Madison, DDS, MS
Asheville, NC

2-5 pm
The Board Walk: Becoming a Diplomate
Paul J. Ashkenaz, DDS, Chicago
Charles J. Cunningham, DDS, Gainesville, FL
Samuel O. Dorn, DDS, Fort Lauderdale, FL
Harold E. Goodis, DDS, San Francisco
William T. Johnson, DDS, MS, Iowa City, IA
Robert Peikoff, DMD, MSD, Winnipeg, MB
H. Robert Steiman, DDS, Detroit
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 give interested individuals the opportunity to interact
with the Directors and to clarify concerns regarding the certification process.

Oral Research Presentations VII
Graduate Student Section
Room 603
Moderator: Cindy R.
Rauschenberger, DDS, MS, Oak Brook, IL

2 pm
Dentinal crack incidence and post
removal time by ultrasonic or me-
chanical force
Joel H. Altshul, DMD (presenter),
J.G. Marshall, L.A. Morgan,
& J.C. Baumgartner, Oregon Health
Services Univ.

2:15 pm
Surface examination of apicected
and retro-prepared roots by an in situ
impression technique
Kevin J. Calzonnetti, DDS (presenter),
T. Iwanowski, & S. Friedman, Univ. of
Toronto, Canada

2:30 pm
Management of alveolar bone defects
during periradicular surgery using
Guidor
James C. Douthitt, DDS, MS (presenter),
J.L. Gutmann, Baylor College of
Dentistry

2:45 pm
Elevated extracellular calcium
influenced response of UMR-106
osteoblasts to IGF-I
Gregory E. Shinkwin, DDS (presenter),
P.M. DiFiore, P.H. Stern, & D.A. Miller,
Northwestern Univ.

3 pm
Periradicular response of immunode-
cific rats to mechanical pulpal
exposure
James E. Stich, DDS (presenter), M.
Torabinejad, P. McMillan, & J. Kettering,
Loma Linda Univ.

3:15 pm
Gallium nitrate diffusion across root
dentin
Samuel J. Angulo, DDS (presenter),
D.H. Pashley, R.J. Loushine, A.M. Ghazi,
& J.D. Eick, US Army Dental Activity &
Medical College of Georgia

3:30 pm
Apexitification in immature dog teeth
using osteogenic protein-I, mineral
trioxide aggregate, and calcium
hydroxide
Shahrokh Shabahang, DDS (presenter),
P.J. Boyne, H.R. Abedi, P. McMillan,
& M. Torabinejad, Loma Linda Univ.

continued on next page
Oral Research Presentations VII continued

3:45 pm
Quantitative analysis of immunoglobulins and inflammatory mediators in endodontic exudates
Ming-Li Kuo, DDS (presenter), I.B. Lamster, & G. Hasselgren, Columbia Univ.

4 pm
Osteoconduction of calcium phosphate thin film on porous implants in rabbit
Hung Quoc Nguyen, DDS (presenter), D.A. Deporter, R.M. Pilliar, J.E. Davies, N. Vallioutte, & R. Chernecky, Univ. of Toronto, Canada

4:15 pm
Immunobiochemical localization of the core protein of decorin in human dentin
Michael R. Bishop, DDS (presenter), D.J. Chiengo Jr., & G.N. Glickman, Univ. of Michigan

4:30 pm
Anesthetic efficacy of the intraosseous injection as an adjunct in endodontics

4:45 pm
The supplemental intraosseous injection of 2% mepivacaine with 1:20,000 levonordefrin
Anna M. Guglielmo, DDS, MS (presenter), A. Reader, R. Nist, M. Beck, & J. Weaver, Ohio State Univ.

Limited Attendance Sessions

Limited seating. NO standing permitted.

LAS 23—Room 615
2-4 pm
Renovating the severely debilitating coronal-radicular system
C. John Munce, DDS Santa Barbara, CA

New technology, materials, and instruments coupled with enhanced visibility and a philosophic shift allow for actual internal reconstruction of the endodontic system and treatment of teeth considered otherwise unsalvageable. Numerous clinical cases demonstrate canal projection for predictable management of severe coronal breakdown, canal obstructions, gross internal irregularities, perforations, single-visit treatment, furcal canals via elongated wave of condensation, and numerous additional complexities.

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

LAS 26—Room 619
2-4 pm
The role of the microscope in creating the exceptional endodontic practice
John D. West, DDS, MSD Tacoma, WA

How can the microscope be incorporated into a busy practice? Is it worth it? Do you need it? What is the relationship of the microscope to professional and personal satisfaction, to revitalizing the endodontic team, to the education of patients, and to the enlightenment of the endodontic/restorative team? This session will address each of these questions, as well as provide answers to crucial issues about practice style, identify innovative techniques, and discuss the role of the microscope in diagnosis, 3-D cleaning and shaping, 3-D obturation, and retreatment.

This session will not be taped.

LAS 27—Room 620
2-4 pm
MTA: Beyond the apical seal
Noah Chivian, DDS West Orange, NJ

Mineral trioxide aggregate (MTA) was recently developed to seal the portals of exit from the root canal system via the surgical approach. Its physical, chemical and immunological properties have been the subject of numerous published papers. Initially intended for use as the “ideal” root-end filling material, its clinical use has expanded exponentially. MTA can also be used to seal chamber floor, post, and resorption perforations. The presentation will demonstrate the use of MTA beyond the apical seal in more than 250 teeth.

Taping
Audio and video taping are allowed only with permission of the speaker.
Continental Breakfast
Exhibit Hall
8-8:45 am
(by ticket only)

Exhibits
Exhibit Hall
8 am-1 pm

*Poster Research Presentations*
Graduate Student Section
Exhibit Hall
8:30-11:30 am

**PR 23**
Effectiveness of gutta percha removal with and without a surgical operating microscope
Lynne A. Baldassari-Cruz, DDS, Univ. of Iowa

**PR 24**
A retrospective study evaluating the use of the panoramic radiograph in endodontics
Timothy E. Bodey, DDS, US Army Dental Activity

**PR 25**
Clinical assessment of rotary canal instrumentation with an apex locating bandpiece
David A. Campbell, DDS, Univ. of Toronto

**PR 26**
In vitro evaluation of a carbon-fiber post
Jon P. Dean, DDS, Louisiana State Univ.

**PR 27**
Qualitative comparison of two NiTi rotary file systems to hand filing
Kenneth J. Frick, DDS, Marquette Univ.

**PR 28**
The effect of foramen morphology on apex locators
John J. Jabar, DDS, Univ. of Pennsylvania

**PR 29**
Photoelastic comparison of stress using stainless steel vs. nickel titanium spreaders
Anthony P. Joyce, DDS, US Army Dental Activity

**PR 30**
Evaluation of materials used to seal pulp chambers: A bacteriological assay
Kathryn M. Karpinski, DDS, New York Univ.

**PR 31**
Reproducibility of periapical radiolucencies: Repositioning device vs. conventional radiographic technique
Nooshin Katebzadeh, DDS, Univ. of North Carolina

**PR 32**
Responsiveness of posterior teeth with open apices to electronic pulp testing
Kimberly A. Kochis, DMD, Univ. of Iowa

**PR 33**
Dynamics of host mediators in endodontic exudates
Ming-I. Kuo, DDS, Columbia Univ.

**PR 34**
Cytotoxicity of resin modified glass ionomers on human PDL cells
Marshall T. Lavin, DDS, Univ. of Nebraska

**PR 35**
A comparative in vitro study of the host immune response to three endodontic pathogens
Luciano A. Magli, DDS, Boston Univ.

**PR 36**
The influence of luting agents on microleakage in para-post system
Karim Malek, DMD, Univ. of Connecticut

**PR 37**
Biocompatibility and osteogenic potential of mineral trioxide aggregate
Tod R. Moreton, DDS, Indiana Univ.

**PR 38**
The numerical density of dentinal tubules at the apical pulpal wall
Joseph V. Quevedo, DDS, Univ. of Connecticut

**PR 39**
Quantitation of catecholamines in inflamed human dental pulp by high performance liquid chromatography
Patricia A. Tordik, DMD, New York Univ.

**PR 40**
Histological and microradiographical analysis of endodontic microsurgery in dogs
Ralan D. Wong, DDS, Univ. of Pennsylvania

*Table Clinics*
Graduate Student Section
Exhibit Hall
8:30-11:30 am

**TC 7**
Intrusive luxation/central dislocation pathogenesis and treatment for permanent teeth
Jeffrey P. Lilly, DDS, Univ. of Iowa

**TC 8**
Endodontic problem solving in tooth isolation
Chris R. Dacko, DMD, Northwestern Univ.

**TC 9**
Managing the bot mandibular molar
Derik P. DeConinck, DDS, & Todd V. Ester, DDS, Univ. of Michigan

**TC 10**
Management of stripped perforation
Joseph D. DeGuzman, DDS, Marquette Univ.

**TC 11**
Diagnostic aids in the evaluation of complex root structure
Jason P. Devey, DMD, & Charlene M. Auld, DDS, Naval Dental School

**TC 12**
Effect of rehydration on PDL cell viability of dry stored human teeth
Diane L. Doyle, DMD, & David M. Jones, DDS, Univ. of Maryland

**TC 13**
A double-seal technique for retrograde root fillings
Julio R. Galvez, DDS, Univ. of Pennsylvania

**TC 14**
An innovative approach to intentional replantation
Jason A. Garlock, DMD, Albert Einstein Medical Center

**TC 15**
Tooth shade evaluation in vitro with a sphere spectrophotometer
Donald J. Horn, DDS, Albert Einstein Medical Center

continued on next page
Program, continued

Table Clinics

**TC 16**
Radiographic imaging, past and present
Scott A. Jensen, DMD, & Robert A. Caruso Jr., DDS, Naval Dental School

**TC 17**
Perforation repairs using MTA and the internal matrix concept
Blair T. Johnson, DDS, Louisiana State Univ.

**TC 18**
Nickel titanium in endodontics: An exotic metal
Edward D. Kosakoski, DMD, & Robert L. Kaufman, DDS, Naval Dental School

**TC 19**
The diagnostic dilemma of incisive canal cysts
Nader Gill, DMD, & Waheed A. Malik, DDS, Marquette Univ.

**TC 20**
Bacterial extrusion through the apical foramen: A comparison of mechanical and band instrumentation
Troy E. McGrew, DDS, & Michael W. Nimmich, DMD, West Virginia Univ.

**TC 21**
Tri Auto ZX: A combination apex locator and band piece
Michael B. McKee, DDS, Univ. of Pennsylvania

**TC 22**
New sizing concept for endodontic instruments
Jose A. Medina, DMD, Univ. of Pennsylvania

**TC 23**
The ability of computed dental radiography to detect a small file in a tooth compared to D and E speed radiographic film
Kevin T. Mullin, DDS, & Ali Behnia, DMD, Univ. of Maryland

**TC 24**
The tuberculintive-positive patient: What you really need to know
Mark V. Nearing, DDS, Univ. of Michigan

**TC 25**
The relative diagnostic value of CDR imaging versus E-speed film in the diagnosis of bony lesions of the mandible
David F. O'Connor, DMD, & John B. Goessman Jr., DDS, Univ. of Maryland

**TC 26**
Enhancing root canal irrigation
James E. Pastor, DDS, & Kyle J. Schmidt, DDS, Naval Dental School

**TC 27**
Hemostasis in endodontic microsurgery
Sivakami Rethnam, BDS, Univ. of Pennsylvania

**TC 28**
Contemporary suturing concepts in endodontic surgery
Juan P. Rodriguez, DDS, & Solaiman M. Al-Hadlaq, BDS, Univ. of Michigan

**TC 29**
Concepts in restoration of endodontically treated teeth using pre-fabricated posts
David S. Rosenbaum, DDS, & Linda M. Sommercorn, DDS, Northwestern Univ.

**TC 30**
The effects of sterilization on the cutting efficiency of nickel titanium endodontic band files
Corene J. Poelman, DDS, West Virginia Univ.

**TC 31**
Alternate anesthetic techniques

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Scientific Session VIII

Grand Ballroom C
Moderator: John D. West, DDS, MSD, Tacoma, WA

9 am–12 noon

**Root canal shaping with variably tapered instruments and the continuous wave of condensation technique**

L. Stephen Buchanan, DDS
Santa Barbara, CA*

New variably tapered shaping files and the continuous wave of condensation obturation technique will be presented. At conclusion, participants should be able to:

- Describe the revolutionary new variably tapered files by their features, function, and optimal use.
- Describe a new warm gutta percha obturation technique and its advantages.

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

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Scientific Session IX

Room 603
Moderator: James C. Douthitt, DDS, Amarillo, TX

9 am–11 am

**Transantral endodontic surgery and surgical complications**

James A. Wallace, DDS, MDS, MSD, MS, Pittsburgh

Maxillary sinus endodontic surgery and its complications will be discussed. At conclusion, participants should be able to:

- Describe maxillary sinus anatomy.
- Describe efficient maxillary bicuspid and molar surgical techniques for apical approaches.
- Feel more comfortable with maxillary sinus exposures.
- Understand management of surgical complications.

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Visit the Exhibits

Be sure to stop by the Exhibit Hall, place your orders, and say thanks to the exhibitors who help defray annual session costs.

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.
**General Interest Session V**
Room 608
9 am-12 noon
(See page 15 for description.)

**SATURDAY PM, MAY 10**

Edgar D. Coolidge Luncheon
Grand Ballroom A
Moderator: Kevin T. King, DDS
Chicago
12:30-2 pm
(by ticket only)

Edgar D. Coolidge Award
Joseph D. Maggio, DDS, Oak Brook, IL

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.

**General Assembly**
Room 608
2-4 pm

Past Presidents' Reception
Room 608
6:30-7:30 pm
Preceding the President's Dinner Dance, this annual reception will offer a cash bar.

President's Dinner Dance
Grand Ballroom
7:30 pm-midnight
(by ticket only)
Come celebrate the breathtaking dinner dance capturing the iridescent elegance of the "Emerald City" Join friends, family, and colleagues for an elegant evening wrapping up the 54th Annual Session. Dine on sumptuous food and dance to a lively array of music provided by Bobby Medina and his band. (Dress is black tie optional.)

**SUNDAY, MAY 11**

Farewell Breakfast
Sheraton Seattle Grand Ballroom C
8-9 am
(by ticket only)

Faculty Development Post Meeting
Sheraton Seattle East Room A & B
8 am-1 pm
(by invitation only)

Perforation management: Today and tomorrow

Paul E. Lovdahl, DDS, MSD
Bellingham, WA
Ronald R. Lemon, DMD
New Orleans
Robert J. Rosenberg, DDS, DSCD
Greenbrae, CA

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**Take a bite out of the Big Apple!**


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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

The following will be held at the Sheraton Seattle Hotel and Towers.

**Sunday, May 4**
ABE Board of Directors, 8 am–6 pm ........................................... Room 416

**Monday, May 5**
ABE Board of Directors, 8 am–6 pm ........................................... Room 412 & 414

**Tuesday, May 6**
ABE Board of Directors, 8 am–5 pm ......................................... Aspen Room

**Wednesday, May 7**
AAE Foundation Board of Trustees, 8 am–5 pm ........................ Aspen Room
Dental Benefits, 2–5 pm ............................................................ Douglas Room
Honors & Awards, 2–5 pm ......................................................... Poplar Room

The following will be held at the Washington State Convention and Trade Center.

**Friday, May 9**
Clinical Practice, 7–8:45 am ..................................................... Room 304
Editorial Board, 7–8:45 am ..................................................... Room 302
Educational Affairs, 7–8:45 am ............................................... Room 308
Governmental Affairs & Federal Dental Health Services, 7–8:45 am .. Room 305
Membership Insurance, 7–8:45 am ....................................... Room 309
Membership Services, 7–8:45 am ......................................... Room 307
Professional Standards, Peer Review, & Ethics, 7–8:45 am .......... Room 303
Public and Professional Affairs, 7–8:45 am ............................ Room 306

**Saturday, May 10**
Past Presidents’ Breakfast, 7:45–8:45 am ............................... Room 210

The following will be held at the Sheraton Seattle Hotel and Towers.

**Sunday, May 11**
AAE Board of Directors, 8 am–1 pm ..................................... Aspen Room

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**1997 Tours**

**Orca Whale Cruise in the San Juans Islands**
$150/person; Lunch included
Pre-conference Tour
Tuesday, May 6, 7:30 am–10 pm

**San Juan Island Day Trip**
$87/person
Pre-conference Tour
Tuesday, May 6, 7:30 am–9:30 pm

**Whidbey Island Tour**
$61/person; Lunch included
Wednesday, May 7, 8:30 am–5 pm

**Seattle City Highlights and Pike Place Market Tour**
$22/person; Wednesday, May 7, 9 am–12 noon;
Thursday, May 8, 9 am–12 noon

**Snoqualmie Falls, Boehm's Candy Kitchen, and Gilman Village Tour**
$25/person; Wednesday, May 7, 12:30–5:30 pm

**Coffee Roasters Tour with Lunch on Vashon Island**
$51/person; Lunch included
Thursday, May 8, 10:15 am–3:30 pm

**Touring the Botanical Gardens and Kirkland Waterfront Galleries**
$24/person; Thursday, May 8, 1–4:30 pm

**Kiana Lodge Salmon Dinner**
$69/person; Dinner included
Thursday, May 8, 6–11:30 pm

**Boeing's Everett Plant Tour**
$30/person; Friday, May 9, 8–11:30 am

**Walking Tour with Chef's Tour of Pike Place Market**
$69/person; Lunch included
Friday, May 9, 9:45 am–2:15 pm

**Lake Washington Cruise**
$34/person; Friday, May 9, 11 am–2 pm

**Touring the Japanese Gardens with a Tea Ceremony**
$34/person; Friday, May 9, 1–4:30 pm

**Northwest Winery Tour**
$24/person; Saturday, May 10, 1–5 pm

**Microbrewery Tour and Pub Crawl**
$41/person; Saturday, May 10, 1–5 pm

**Independent Victoria Day Trip**
(Unescorted)
$95/person; Available any day, 8 am–9:30 pm

*If you have pre-registered, go to the AAE Registration Desk in the Level 4 Lobby Atrium Registration area of the Convention Center to pick up your tickets. Tickets may be purchased at the AAE Tour Desk on a space available basis only, subject to a two-dollar surcharge per ticket. Tours will depart from the Convention Place at the Convention Center. Please arrive 10 minutes prior to departure time.*
Alumni, Affiliates & Other Groups

The following will be held at the Sheraton Seattle Hotel and Towers.

Wednesday, May 7
US Army Assn. of Endo., 4:30–6 pm ........................................ Madrona

Thursday, May 8
Albert Einstein Endo. Alumni, 6:30–8 pm .................. Room 418 & 420
Baylor Graduate Endo. Alumni, 9:30–11 pm .................. Schooners
Christian Endo. Society, 5–6 pm .................................. Poplar Room
Harry J. Healy Endo. Study Club, 5:30–7 pm .................. Room 426
Harvard Endo. Alumni, 6–8 pm .................................. Douglas Room
Illinois Assn. of Endo., 6:30–8:30 pm ....................... Cirrus Room
Loma Linda Univ. Alumni, 7–9 pm ................................ Cedar Room
MCV/VCU Endo. Alumni Assn., 5–6:30 pm ..................... Madrona
Michigan Assn. of Endo., 6:30–8:30 pm .................... East Room A
Northwestern Dental Alumni, 6:30–8 pm ...................... Aspen Room
Tarheel Endo. Assn., 5–6 pm ...................................... Room 428 & 430
Tufts Univ. Endo. Alumni, 6:30–8 pm ......................... West Ballroom B
Univ. of Illinois at Chicago Endo. Alumni, 7:30–10 pm .......... East Room B
Univ. of Maryland Alumni, 6:30–8:30 pm ................... Room 422
Univ. of North Carolina Endo. Alumni Assn., 6–7:30 pm .......... Room 428 & 430
Univ. of Pittsburgh Alumni, 6–8 pm ............................... Room 424
Univ. of Washington Graduate Endo. Alumni, 6–11 pm ...... Metropolitan Room

Friday, May 9
Boston Univ. Alumni Faculty Assn., 7–10:30 pm .......... Metropolitan Room
Florida Assn. of Endo., 5–6 pm ................................. Poplar Room
Iowa Endo. Group, 6–8 pm ....................................... Room 422 & 424
New Jersey Alumni Assn., 6:30–10 pm ......................... Room 416
New York Univ. Endo. Alumni Assn., 6–8 pm ................ Room 428 & 430
Oklahoma Assn. of Endo., 7–8:45 am ... Room 310 (in the Convention Center)
Temple Alumni Endo. Assn., 5:30–7 p ......................... Madrona
Univ. of Minnesota Endo. Alumni, 6–8 p ..................... Room 426
Univ. of Pennsylvania Endo. Alumni, 5:30–7 p ................. Aspen Room
Univ. of Southern California Endo. Alumni, 5:30–7 p ........ Room 418

The following will be held at the Washington State Convention and Trade Center.

Saturday, May 10
Boston Univ. Alumni Faculty Assn., 7–8:45 am .................. Room 211
Endo. Section of Triple O, 7–8:45 am .......................... Room 213
Int'l Federation of Endo. Assn., 2–5 pm ........................ Room 615
Michigan Endo. Alumni, 7–8:45 am .......................... Room 214
US Air Force Endo., 7–8:45 am ................................ Room 209
US Navy Assn. of Endo., 7–8:45 am .......................... Room 204
Univ. of Detroit Mercy, 7–8:45 am ............................. Room 212

Auxiliary Program

President
Kathy Linebarger
(William)

President-elect
Phyllis Baur
(Jack)

Vice President
Rikki Bell
(Craig)

Secretary
Beverly Paulk
(Glenn)

Treasurer
Debra Howard
(James)

Parliamentarian
Sandy Sherman
(Phillip)

Local Arrangements
Sarma Davidson
(Thomas)

All events will be held in the AAE Auxiliary Hospitality Suite at the Sheraton Seattle Hotel and Towers unless otherwise indicated.

Wednesday, May 7
3–5 pm Board meeting

Thursday, May 8
8–11 am Hospitality Suite
2–3 pm "Lillian Pear" reception
3–4 pm Annual Business Meeting
4–5 pm Incoming Board Meeting

Friday, May 9
8–11 am and 2–5 pm Hospitality Suite

Saturday, May 10
8 am–12 noon Hospitality Suite
Please stop by, place your orders, and say thanks to the exhibitors who help defray annual session costs. Badges must be worn in the Exhibit 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, May 8: 10 am–6 pm
- Friday, May 9: 8 am–5 pm
- Saturday, May 10: 8 am–1 pm

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<tr>
<td>539</td>
<td>Link Dental Division 3149 California Blvd. Napa, CA 94558</td>
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<td>110</td>
<td>Medidenta Int'l., Inc. 39-23 62nd St. Woodside, NY 11377</td>
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<td>520</td>
<td>Metalift™ (Classic Practice Resources) 7855 Jefferson Hwy., Ste. C Baton Rouge, LA 70809</td>
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<td>438</td>
<td>Moller Microsurgical 9 Industrial Park Waldwick, NJ 07463</td>
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<td>209</td>
<td>Moyco Union Broach 200 Commerce Dr. Montgomeryville, PA 18936</td>
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<td>112</td>
<td>MPL Technologies, Inc. 9400 King St. Franklin Park, IL 60131</td>
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<td>220</td>
<td>Nephrone Corp. Dental Division 321 E. 25th St. Tacoma, WA 98421</td>
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<td>338437</td>
<td>NT Co. 17802 Fitch Ave.</td>
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<td>340439</td>
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<td>Obtura Corporation 1727 Larkin Williams Rd. Fenton, MO 63026</td>
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<td>523</td>
<td>OP-D-OP, Inc. 8559 Washington Blvd. Roseville, CA 95678</td>
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<td>518</td>
<td>Orascoptic Research, Inc. 5025-3 Verona Rd. Madison, WI 53744</td>
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<td>302</td>
<td>Osada, Inc. 8242 W. Third St., Ste. 150 Los Angeles, CA 90048</td>
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<td>444</td>
<td>Panoramic Corporation 4521 Groshen Rd. Fort Wayne, IN 46818</td>
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<td>225</td>
<td>Patterson Dental Supply, Inc. 8020 154th Ave., N.E. Redmond, WA 98052</td>
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<td>311</td>
<td>Premier Dental Products Co. P.O. Box 61574 3600 Horizon Dr. King of Prussia, PA 19046</td>
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<td>ProBusiness Systems, Inc. 9300 Jollyville Rd., Ste. 100 Austin, TX 78759</td>
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<td>Professional Results, Inc. 17 Phaedra Laguna Niguel, CA 92677</td>
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<td>Quality Aspirators P.O. Box 382120 Duncanville, TX 75138</td>
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<td>Quintessence Publishing Co., Inc. 551 N. Kimberly Dr. Carol Stream, IL 60188</td>
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<td>R. Chige, Inc. 4531 N. Dixie Hwy. Boca Raton, FL 33431</td>
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<td>Realtime Systems 84 Terra Bella Dr. Walnut Creek, CA 94596</td>
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<td>Ribbond, Inc. 1326 5th Ave., Ste. 640 Seattle, WA 98101</td>
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<td>Roydent Dental Products, Inc. 1010 W. Hamlin Rd. Rochester Hills, MI 48329</td>
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<td>Schick Technologies, Inc. 31-00 47th Ave. Long Island City, NY 11101</td>
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<td>Seiler Instrument Co. 170 E. Kirkham Ave. St. Louis, MO 63119</td>
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<td>Sime Health Limited 1200 Sixth Ave. South Seattle, WA 98134</td>
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<td>SS White Burs, Inc. 1145 Towbin Ave. Lakewood, NJ 08701</td>
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<td>SurgiTel/General Scientific Corp. 77 Enterprise Dr. Ann Arbor, MI 48103</td>
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<td>Trello &amp; Heisel, Inc. 3132 Wilmington Rd. New Castle, PA 16105 (Level 6 Lobby)</td>
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<td>417</td>
<td>Trophy Radiology, Inc. 2221 Newmarket Pkwy. Ste. 136 Marietta, GA 30067</td>
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<tr>
<td>419</td>
<td>5001 E. 68th St., Ste. 500 Tulsa, OK 74136</td>
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<tr>
<td>319</td>
<td>Williams &amp; Wilkins 351 W. Camden St. Baltimore, MD 21201</td>
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**Other Exhibits**

**AAE Information Center:**
- AAE Online
- AAE Products
- Colleagues for Excellence
- 1998 Annual Session in New York
- Tote bags and travel mugs
- American Board of Endodontics
- AAE Foundation

**AAE Career Opportunities Exchange** (Registration Area)

**Teach’em Inc.**
160 E. Illinois St.
Chicago, IL 60611
Level 6 Lobby

**Also in the Exhibit Hall:**

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

**Poster Research Presentations 1–22**
Endodontist Section
Friday, May 9, 9 am–12 noon

**Poster Research Presentations 23–40**
Graduate Student Section
Saturday, May 10, 8:30-11:30 am

**Table Clinics 1–6**
Endodontist Section
Friday, May 9, 9 am–12 noon

**Table Clinics 7–31**
Graduate Student Section
Saturday, May 10, 8:30-11:30 am
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* 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
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* Warren J. Hedman .......... '69-'70
* John F. Bucher .......... '70-'71
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*Deceased
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KEY
  CEC=Continuing Education Course
  GI=General Interest Session
  LAS=Limited Attendance Session
  SS=Scientific Session

1997 Annual Session Program 29
Sheraton Seattle Hotel & Towers
1400 6th Avenue
Seattle, WA 98101
Phone: 206/621-9000
Fax: 206/621-8441

Cavanaugh's on Fifth Avenue
1415 5th Avenue
Seattle, WA 98101
Phone: 206/971-8000
Fax: 206/971-8100

Crowne Plaza
1113 6th Avenue
Seattle, WA 98101
Phone: 206/464-1980
Fax: 206/340-1617

Paramount Hotel
724 Pine Street
Seattle, WA 98101
Phone: 206/292-9500
Fax: 206/292-8610

Plaza Park Suites
1011 Pike Street
Seattle, WA 98101
Phone: 206/682-8282
Fax: 206/682-5315

Roosevelt
1531 7th Avenue
Seattle, WA 98101
Phone: 206/621-1200
Fax: 206/233-0335

Continuous shuttle busses for the Dinner Dance only will be available starting at 6:15 pm Saturday, May 10, from the Sheraton, Cavanaugh, Crowne Plaza, Paramount, Plaza Park, and Roosevelt hotels to the Washington State Convention and Trade Center. The last bus from the convention center to the hotels will depart at midnight.