

STANDARD BEARERS

FOR ENDODONTICS



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**American Association of Endodontists  
48th Annual Session, April 17-21, 1991  
Washington, D.C.**



# President's Message

It is a special privilege for me to welcome each of you to our Nation's Capital, Washington, DC, for the 48th Annual Scientific Session of the American Association of Endodontists. Cherry blossoms of spring, national cultural events, historical monuments and governmental institutions beckon us all to a city recognized for setting the standards for freedom and democracy throughout the world. It is only appropriate that we meet here in the city of standards, under the theme banner: "Standard Bearers for Endodontics."

A special welcome to our international members and guests who came to share their knowledge with us and to participate in our program and activities.

Preparations for this important meeting have gone on for over two years under the guidance of General Chairman Ed Osetek. His passion for both this city and our organization is reflected in the quality and diversity of the program. Program Chairman Chuck Cunningham along with his talented committee composed of Bob Rosenberg, Sandy Madison, Bob Steiman and Fred Barnett are to be commended for securing the best presenters available around the world, that program space and logistics would allow at the Ramada Renaissance Techworld.

Local Committee Chairman Lamar Hicks and Auxiliary Liaison Chairperson Lisa Hicks have worked tirelessly for our Association's benefit. This in spite of compelling

distractions related to issues of riveting world interest. Neil Small, Walter Cunningham, John Olmsted, John Bramwell, Cindy Rauschenberger, Greg Isermann and Bob Flath composed the nucleus of our local action team.

The program format is a class act with something for everyone. There are likely to be overflow crowds at many of the sessions. Our AAE staff has worked in overdrive to finalize this session. Our Executive Director, Irma Kudo has kept her fingers on the pulse of our organization and this meeting while herself on chemotherapy. We welcome her back as she regains her strength. The individual help of Laura Galusha, Letty Catrambone, and Christine Bowden at the Headquarters Office provided the support necessary to stage this assembly of common purpose. I would also want to thank the other staff members Monica Taylor, Donna Gomez, Nora Jimenea and new staff members, Tim McCann and Dawn Kappel.

I encourage everyone to take advantage of the myriad opportunities for learning, rekindling old friendships and developing new ones, and enjoying the wonderful sights of our Nation's Capital.

On behalf of the Board of Directors, I wish you all a wonderful educational and cultural experience at this meeting, the largest gathering of endodontists from throughout the world.

James C. McGraw, DDS  
President



# American Association of Endodontists

## BOARD OF DIRECTORS



**James C. McGraw**  
President



**Joseph I. Tenca**  
President-elect

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# Annual Session Committee



**Edward M. Osetek**  
General Chairman



**Charles J. Cunningham**  
Program Chairman



**M. Lamar Hicks**  
Local Committee  
Chairman

## PROGRAM

Continuing Education ..... Robert J. Rosenberg  
 Limited Attendance Seminars ..... Sandra Madison  
 Research Seminars &  
 Poster Presentations ..... H. Robert Steiman  
 Table Clinics ..... Frederic Barnett  
 Technical Exhibits ..... Letty Catrambone

## GENERAL ARRANGEMENTS

Audiovisual ..... Bill Masheter  
 Banquets & Meals ..... John Olmsted  
 Dinner Dance Seating ... Pam Dietz & Carolyn Jennings  
 Hospitality ..... Neil J. Small  
 Hosts ..... Walter T. Cunningham  
 Luncheon with Learning ..... Gregory T. Isermann  
 Monitors ..... John D. Bramwell  
 Signs ..... Cindy R. Rauschenberger  
 Sports ..... Robert K. Flath  
 AAE Auxiliary Chairperson ..... Lisa Hicks

The statements and opinions expressed at the annual session are solely those of the individual speaker. Those statements and opinions do not reflect any endorsement by the American Association of Endodontists.



# General Information

The Grand Hyatt, Holiday Inn Crowne Plaza and Ramada Renaissance Techworld Hotel (headquarters hotel) will be the official hotels for the 48th Annual Session.

### AAE Headquarters - Room 19

AAE Headquarters office will be staffed by Letty Catrambone, Laura Galusha, Monica Taylor, Dawn Kappel, Tim McCann and members of the Annual Session Committee. Office hours are 8 am-5 pm Tuesday through Sunday.

### Exhibits - Exhibit Hall

Because exhibitors help to defray some of the cost of the annual session, we encourage you to stop by the exhibits and place your order.

Complimentary coffee service will be provided on Thursday and Friday in the exhibit area, 10:30 am and 2:30 pm.

Exhibit hours are:

Thursday, April 18	10 - 6 pm
Friday, April 19	8 - 5 pm
Saturday, April 20	8 - 12 n

### Cassette Tape Recordings

Teach'em Inc. will record many of the sessions presented. The cassette tapes are available for purchase in the Ballroom Foyer.

### Continuing Education Credit

California Board of Dental Examiners, Florida and Academy of General Dentistry Certificates - forms to be picked up and/or validated at the AAE Headquarters office.

#### Smoking

For the comfort of others, no smoking is permitted in any of the meeting rooms.

### Registration - Ballroom Foyer

Registration fees include the following:

AAE members (excluding student members) - all sessions, Welcome/Fellowship Reception, one full breakfast (Thursday), two continental breakfasts, one breakfast brunch (Sunday), two lunches (Friday & Saturday) and one ticket to the Dinner Dance (Saturday).

AAE student members - all sessions, Welcome/Fellowship Reception.

Non-member professionals, student and dental auxiliaries - all sessions.

Spouses - Welcome/Fellowship Reception and use of the Auxiliary hospitality suite.

Registration hours are:

Wednesday, April 17	11 - 8 pm
Thursday, April 18	8 - 5 pm
Friday, April 19	8 - 11 am

### Saturday Dinner Dance

Your table selection for the Dinner Dance must be made as soon as possible before 5 pm on Thursday by exchanging your voucher for a banquet ticket at the AAE registration desk. If you wish to have a group seating, you must present a voucher for each person in your group in order to reserve the space. All vouchers must be presented at the same time. No exceptions will be made.

### Speaker AV Ready Room - Room 18

Program participants are urged to review their audiovisual material in the speaker ready room prior to their presentation to avoid problems that may occur.

**Video Taping is not allowed.**

Badges must be worn at all official AAE functions.



# Program

## WEDNESDAY, APRIL 17

### CONTINUING EDUCATION COURSE

Renaissance Ballroom (by ticket only)

Management of procedural errors in endodontics  
Moderator: ROBERT J. ROSENBERG, DDS,  
DScD, Greenbrae, CA

8:30 am Welcome

8:45 am Guided tissue regeneration: applications in endodontic treatment  
ANDREW BROWER, DDS, Hinsdale, IL  
A periodontist will discuss the possible applications of periodontal barrier membranes in the management of endodontic lesions including perforations. Case histories and a discussion of the biologic principles involved with the use of this material will be presented.

10:15 am Management of furcation perforations: classic and new methods  
RONALD R. LEMON, DMD, New Orleans, LA  
One of the most devastating injuries affecting the long-term prognosis of a posterior tooth is the perforation of the furcation. Traditionally, the treatment of this type of defect has required surgical intervention or an extended treatment period attempting to recalcify the defect with calcium hydroxide. By using hydroxylapatite as a biocompatible internal matrix most of these defects can now be repaired nonsurgically. The technique offers a greatly improved long-term prognosis. This method of repair has been researched at LSU School of Dentistry over 10 years.

11:45 am Lunch

12:45 pm Non-surgical management of procedural errors  
MICHAEL J. SCIANAMBLO, DDS, San Rafael, CA  
Procedural errors are complex aspects of endodontic retreatment which occupies an ever increasing part of contemporary endodontic practices. This presentation will discuss crown and post removal, negotiation and retrieval of fractured instruments, negotiation of obstructed and ledged canals, non-surgical treatment of perforations and ultimate obturation of the root canal system in three dimensions.

2:45 pm Surgical management of procedural errors (This portion will not be taped)  
CLIFFORD J. RUDDLE, DDS, Santa Barbara, CA  
Endodontists frequently encounter cases that pose an ever-increasing challenge in diagnosis and treatment. Of great interest to clinicians is the selection of materials, armamentarium, and techniques that can be successfully employed during endodontic surgery. An overview of surgical endodontic procedures will emphasize the significant advancements in techniques, lighting, visibility, and hemostasis dramatically enhancing the abilities of the surgical team.

4:30 pm Discussion

11:00 am- 8:00 pm **REGISTRATION**  
Ballroom Foyer



7:00 pm- 9:00 pm **WELCOME/FELLOWSHIP RECEPTION**  
The Mall (by ticket only)

**All Aboard!** Next stop: The Mall!

Don't miss the bus for this traditional kick-off to the AAE Annual Session. Several food stations and open bars will be scattered under the gigantic tent, waiting for AAE guests to partake of the sumptuous feast. **Casual dress** is appropriate; however, April evenings in the Nation's capital may still have a chill, so be sure to bring a sweater or jacket as this is an outdoor gala. Because the beautiful surroundings will surely be an open invitation for an evening stroll, comfortable walking shoes are recommended.

**Continuous bus service** will run every ten minutes from the Ramada Renaissance Techworld K Street entrance and from the Holiday Inn Crowne Plaza 12th Street entrance beginning at 6:30 pm. Return transportation will also be provided to the Ramada Renaissance Techworld, Holiday Inn Crowne Plaza and Grand Hyatt Washington with the last shuttle leaving the Mall at 9:30 pm.





## THURSDAY MORNING, APRIL 18

### OPENING SESSION BREAKFAST

8:00 am- Grand Ballroom (by ticket only)  
 10:00 am Keynote: JAMES C. MCGRAW, DDS,  
 AAE President  
 Guest: EUGENE J. TRUONO, DDS,  
 ADA President

### 8:00 am- REGISTRATION

5:00 pm Ballroom Foyer

### 10:00 am- EXHIBITS

6:00 pm Exhibit Hall

### GENERAL INTEREST SESSION I

10:30 am- Renaissance East  
 12:00 n Moderator: PATRICK J. FERRILLO, Jr, DDS,  
 St Louis, MO

The endodontist as a witness  
 JACK A. WEICHMAN, DDS, JD,  
 Pacific Palisades, CA

Endodontists are frequently called as witnesses in accident and dental malpractice cases. This presentation will discuss your rights, depositions, writing reports, testimony at trial, getting along with the attorneys and what's expected of you. There will also be a discussion on the value of your time and getting paid for your efforts and knowledge.

### SCIENTIFIC SESSION I

10:30 am- Renaissance - West A  
 12:00 n Moderator: JAMES L. FRAZIER, DDS, MS,  
 San Diego, CA

Clinical treatment of traumatic injuries — chipped to avulsed teeth  
 DONALD D. ANTRIM, DDS, MA, MS, Encinitas, CA

This clinical presentation will review the endodontic considerations of the treatment of traumatic injuries from the chipped tooth through the avulsed tooth. Clinical cases will be shown and used to discuss pertinent treatment modalities which are based on sound biological principles and the latest research information.

### SCIENTIFIC SESSION II

10:30 am- Renaissance - West B  
 12:00 n Moderator: CINDY R. RAUSCHENBERGER, DDS,  
 MS, Baltimore, MD

Alternatives to radiographs  
 NEVILLE J. McDONALD, BSc, BDS, MS,  
 Baltimore, MD

Radiographs play an integral role in endodontic therapy, but recent advances in the technology of

electronic apex locators and digital image processing techniques provide the clinician with alternative methods to conventional radiography. The role these devices can play in clinical practice will be presented along with guidelines for their use.

### LIMITED ATTENDANCE SEMINARS

10:30 am- Limited seating. NO standing permitted  
 12:00 n

#### LAS 1 - Room 2

Problem-solving in nonsurgical root canal retreatment  
 GERALD N. GLICKMAN, DDS, MS, MBA, Dallas, TX

Cases requiring nonsurgical endodontic retreatment have infiltrated the practice of endodontics and due to their increasing complexity, have become more difficult to treat. Problems encountered with removal of gutta-percha, pastes, instruments, and silver cones will be addressed along with techniques for managing these situations. Clinical cases will be presented to highlight treatment planning considerations and various methodologies used to achieve successful results.

#### LAS 2 - Room 16

Warm lateral condensation and new instrumentation  
 HOWARD MARTIN, DMD, Silver Spring, MD  
 GARY L. La BOUNTY, DDS, MS, APO New York, NY

Enhanced lateral condensation technique using a warm lateral condenser requiring no alteration of canal preparation and armamentarium. New spreader/pluggers, orifice openers and files will be discussed. Repeated as LAS 24.

#### LAS 3 - Room 5

Achieving diplomate status: a new diplomate's perspective

DENNIS L. TORNEY, DDS, Greensboro, NC  
 MARY T. PETTIETTE, DDS, Chapel Hill, NC  
 JOHN D. BRAMWELL, DDS, Chantilly, VA  
 JOHN R. LUDINGTON, DDS, MSD, Houston, TX  
 DOUGLAS J. MCKENDRY, DDS, MSD, Buffalo, NY

With the recent rerecognition of endodontics as a dental specialty, a renewed interest in Board Certification has arisen. Currently, 27 percent of the AAE members are Diplomates of the American Board of Endodontics. The members of this panel have recently completed the Board Certification process and represent various tracts in endodontics. They will share their impressions and experiences relative to this process. Preparation for the Boards and impact of certification both personally and professionally will be discussed.





**THURSDAY MORNING** (continued)

**LAS 4 - Room 3**

State of the art in laser therapy: new developments in clinical and surgical endodontics  
GUY C. LEVY\*\*, DDS, PhD, Tustin, CA  
MARWAN ABOU-RASS, DDS, MDS, PhD, Los Angeles, CA

Heat control during laser exposure have unveiled new improvements in clinical and surgical endodontics which will be presented during this seminar. Other applications of laser use related to hydroxyapatite fusion will be presented, i.e. retrofill with hydroxyapatite, repair of cracks, bone or tooth reconstruction. Repeated as LAS 23.

**LAS 5 - Room 4**

Restoring endodontically treated teeth: a prosthodontic view  
RICHARD D. JORDAN, DDS, MS, Chapel Hill, NC

This presentation will discuss different clinical techniques available to restore teeth following endodontic treatment. The indications/prognosis of these techniques based on recent experimental data will be presented.

**LAS 6 - Room 15**

Root amps and hemisections: "a cut above for the endodontist"

PATRICE D. PRIMACK, DMD, MS, Martinez, GA

This presentation will discuss how to get to the root of the problem and remove it successfully. Includes surgical cases presented from an endodontist's unique point of view. Repeated as LAS 18.

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

**NEED A BREAK?**

Visit the Technical Exhibits. Complimentary coffee service will be provided in the Exhibit Area on Thursday and Friday at 10:30 am and 2:30 pm.

**RESEARCH SEMINARS I**

Auditorium

Moderators: CALVIN D. TORNECK, DDS, MS, Toronto, Canada  
H. ROBERT STEIMAN, DDS, Detroit, MI

- 10:30 am The cutting efficiency of endosonic K-files  
A. DAMIEN WALMSLEY \*, A. THOMAS & P.J. LUMLEY, Univ of Birmingham
- 10:45 am SEM comparative study of four irrigating solutions used with sonic instruments  
CATHERINE R. RICCI \* & J.M. LAURICHESSE, Univ of Paris
- 11:00 am Investigation into acoustic streaming field in simulated root canals  
MAJINAH AHMAD \* & A.G. KAMARUDIN, Univ of Malaya
- 11:15 am Cleaning ability of straight and precurved endosonic files  
PHILIP J. LUMLEY \*, A.D. WALMSLEY, J.W. RIPPIN, Univ of Birmingham & R. WALTON, Univ of Iowa
- 11:30 am Canal master files: wear patterns with usage  
CARLOS A. F. MURGEL \*, M. ZUOLO, Univ of Sao Paulo & R. WALTON, Univ of Iowa
- 11:45 am Histologic evaluation of 3 instrument/preparation techniques  
MARIO ZUOLO \*, Univ of Sao Paulo, & R. WALTON, Univ of Iowa

\* Presenter

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## THURSDAY AFTERNOON, APRIL 18

### A.B.E. GROSSMAN MEMORIAL LUNCHEON

12:00 n- North Salon (by ticket only)  
 1:45 pm Moderator: EDWARD M. OSETEK, DDS,  
 Chicago, IL

*Leadership in a changing world*  
 GENERAL P.X. KELLEY, USMC (Retired),  
 Arlington, VA

### GENERAL INTEREST SESSION II

2:00 pm- Renaissance East  
 3:30 pm Moderator: DARRELL W. ZENK, DDS, MSD  
 Inver Grove Heights, MN

What the endodontist needs to know about the new  
 ADA insurance codes

PHILIP W. COHEN, DDS, MS, Livonia, MI

The ADA insurance codes for endodontics have  
 undergone a major revision. Also, a new ADA  
 Users Guide has now been published. This will be  
 a question and answer opportunity to review utiliza-  
 tion of these new codes and guides in the private  
 practice environment of endodontics.

### RESEARCH SEMINARS II

Auditorium

Moderators: MAHMOUD TORABINEJAD, DDS,  
 MSD, Loma Linda, CA  
 SANDRA MADISON, DDS, MS  
 Chapel Hill, NC

### Graduate Student Section

- 2:00 pm Further investigation of the apical microleakage  
 patterns of a new endodontic filling technique  
 DOUGLAS MOLL \*, M. LIN, N. PAPAPETROS,  
 M. GOLDMAN & R. WHITE, Tufts Univ
- 2:15 pm Concentration of leukotriene B4 in symptomatic  
 human periradicular lesions  
 ELISABETTA COTTI \*, T. JUNG &  
 M. TORABINEJAD, Loma Linda Univ
- 2:30 pm A quantitative evaluation of debridement comparing  
 two instrumentation techniques  
 KIRK A. COURY \*, J.G. CAILLETEAU,  
 M.R. RIEGER & J.R. LUDINGTON,  
 Univ of Texas at Houston
- 2:45 pm Response of pulpal blood flow to infusion of  
 endothelin-1  
 THOMAS M. GILBERT \*, D.H. PASHLEY &  
 R.W. ANDERSON, Medical College of Georgia
- 3:00 pm Effect of pulpal injury on levels of immunoreactive  
 substance p.  
 ERIC H. GRUTZNER \*, M.G. GARRY &  
 K.M. HARGREAVES, Univ of Minnesota

3:15 pm Evaluation of mechanical properties of machined  
 versus twisted endodontic instruments  
 DONALD B. DAVIES \*, J.F. CORCORAN &  
 R.G. CRAIG, Univ of Michigan

3:30 pm The effect of pulpal disease on Ia expression  
 CAROLYN SHULMAN KERR \*, W.D. BERRY &  
 G. SONNENFELD, Univ of Louisville

3:45 pm Assessment of external root resorption using digital  
 subtraction radiology  
 LES H. KRAVITZ \*, D. TYNDALL & S. MADISON,  
 Univ of North Carolina

4:00 pm In vivo efficacy of ultrasound after step-back  
 instrumentation  
 RICHARD D. ARCHER \*, A. READER, M. BECK &  
 W. MEYERS, Ohio State Univ

4:15 pm Histological evaluation of the periradicular tissues  
 from Nd:YAG laser endodontic treatment in dogs  
 JAMES K. BAHCALL \*, P. HOWARD,  
 L. MISERENDINO & H. WALIA, Marquette Univ

4:30 pm Prophylactic diflunisal to minimize post-operative pain  
 following endodontic treatment  
 ILDIKO E. BAKOS \*, J.A. WALLACE, &  
 G.T. TEREZHALMY, Case Western Reserve Univ

4:45 pm Sealing ability of metal versus plastic carrier thermafil  
 obturators  
 DONALD SCOTT CLARK \* & M.E. ELDEEB,  
 Univ of Minnesota

\* Presenter

### SCIENTIFIC SESSION III

2:00 pm- Renaissance - West A  
 5:00 pm Moderator: H. ROBERT STEIMAN, DDS, Detroit, MI

Management of color by splint bleaching of vital teeth  
 with carbamide peroxide

RONALD R. LEMON, DMD, New Orleans, LA

The splint method of vital bleaching of stained  
 teeth has become immensely popular within the last  
 two years. Is this method a valid addition to the  
 scope of dental practice or just another gimmick?  
 Are there valid scientific concerns about the long-  
 term safety of this procedure? Controlled research  
 projects at LSU School of Dentistry offer the initial  
 scientific information about this technique. Treat-  
 ment planning, case selection and presentation,  
 technical instruction, and medical-legal aspects of  
 this technique will be present.



**THURSDAY AFTERNOON** (continued)

Enamel microabrasion: old problems, new solutions  
(This portion will not be taped)

THEODORE P. CROLL, DDS, Doylestown, PA

This presentation will also introduce the concept of enamel microabrasion for correction of superficial enamel "dysmineralization" and decalcification discoloration defects. History of the procedure will be reviewed and extensive case history documentation will be presented. A number of cases in which visible light polymerized composite resin restorations were used in conjunction with enamel microabrasion will also be described.

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

**SCIENTIFIC SESSION IV**

2:00 pm- Renaissance - West B

3:30 pm Moderator: THOM C. DUMSHA, DDS, MS,  
Baltimore, MD

Neurogenic inflammation  
SYNGCUK KIM, DDS, PhD, New York, NY

In general, inflammation involves the alteration in microcirculatory and sensory functions of the pulp. Recent experimental evidence suggests that the vascular events are caused by various neuropeptides, notably substance P, which are released from the sensory nerve endings. The pathophysiological process of pulpal inflammation seems to depend on two factors: the neurovascular interaction and the low compliance system. Many clinical problems involving dental pain caused by inflammation can be explained by these physiological processes.

**SCIENTIFIC SESSION V**

3:30 pm- Renaissance - West B

5:00 pm Moderator: GERALD W. HARRINGTON, DDS,  
MSD, Seattle, WA

Lasers, electro-optics and endodontics  
ROBERT R. WHITE, DMD, Boston, MA

From supermarket lasers to Star Wars defense, electro-optic technology is rapidly changing our lives. This presentation will examine how these new manipulations of light have and will affect the way we practice dentistry and endodontics. What is possible now and what is still potential? What should we look for and when can we expect it?

**DISTRICT CAUCUSES**

- 2:00 pm- District I ..... Room 3
- 3:00 pm- District II ..... Room 4
- District III ..... Room 5
- District IV ..... Room 6
- District V ..... Room 15
- District VI ..... Room 16

**REFERENCE COMMITTEE HEARINGS**

3:30 pm- Reference Committee Hearings provide an open  
4:30 pm forum for the membership to voice opinions on specific issues up for consideration by the Association.

- Association Affairs ..... Room 4
- Member Services ..... Room 4
- Membership ..... Room 5
- Education and Development ..... Room 5
- Communications/Publications ..... Room 15

**AADS SECTION MEETING**

4:30 pm- Room 16  
5:30 pm

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## FRIDAY MORNING, APRIL 19

### 7:00 am- STUDENT/NEW MEMBER BREAKFAST

8:30 am Renaissance - West A (by ticket only)

### 7:30 am- CONTINENTAL BREAKFAST

8:30 am Central Ballroom (by ticket only)

### 8:00 am- EXHIBITS

5:00 pm Exhibit Hall

### 8:00 am- REGISTRATION

11:00 am Ballroom Foyer

### LIMITED ATTENDANCE SEMINARS

8:45 am- Limited seating. NO standing permitted.

10:15 am

#### LAS 7 - Room 2

OSHA guidelines: how they apply to dentistry

CAROLE L. FRINGS, JD, Washington, DC

This seminar will focus on the current and proposed OSHA Infection Control requirements for dental offices, as well as the application of OSHA's Hazard Communication rule to the dental office.

Repeated as LAS 13.

#### LAS 8 - Room 5

Success and failure in endodontics

ADAM STABHOLZ, DMD, Redlands, CA

What is the success rate when performing a root canal treatment, or, what is the extent of endodontic failure? The operator must try to establish the possible cause of the problem, so that he/she may treat it successfully. Repeated as LAS 28.

#### LAS 9 - Room 3

Women in endodontics

EVA C. DAHL, DDS, MA, MS, La Crosse, WI

INA L. GRIFFIN, DMD, Hattiesburg, MS

LISA R. WILCOX, DDS, MS, Coralville, IA

CAROLYN M. BROWN, DDS, MS, Ft Jackson, SC

As the number of women seeking careers in dentistry has increased dramatically in recent years, women endodontists are no longer a rarity. Women now constitute nearly 22 percent of the endodontic graduate student enrollment. A panel discussion will explore the career options in endodontics including solo and group private practices, academics, and the armed services.

#### LAS 10 - Room 16

Clinical use of sonics and ultrasonics in endodontics

JOE H. CAMP, DDS, MSD, Charlotte, NC

Much confusion exists regarding the effectiveness of sonics and ultrasonics. This discussion will concentrate on the clinical results attained with many of the various devices while showing the pitfalls and precautions necessary with their use. Repeated as LAS 29.

#### LAS 11 - Room 4

Endodontic emergencies

R. SCOTT GATEWOOD, DMD, Jackson, MS

VAN T. HIMEL, DDS, Memphis, TN

SAMUEL O. DORN, DDS, Ft Lauderdale, FL

A questionnaire was sent to diplomates of the American Board of Endodontics to determine changing trends in the treatment of endodontic emergencies since Dorn's survey ten years ago. The results of this questionnaire will be presented. Trends in treatment approaches to various endodontic emergency situations will be discussed.

#### LAS 12 - Room 15

50 endodontic practice enhancers

MARTIN D. LEVIN, DMD, Chevy Chase, MD

These 50 practice enhancers identify some of the main goals of today's endodontic practice. Specific suggestions in dealing with forms, personnel, office design, computers, accounts receivable and patient communications will be discussed.

### SCIENTIFIC SESSION VI

9:00 am- Ballroom North

12:00 n Moderator: HERBERT SCHILDER, DDS, Boston, MA

The challenge of selecting an obturation method (This session will not be taped)

GERALD N. GLICKMAN, DDS, MS, Dallas, TX

JAMES L. GUTMANN, DDS, Dallas, TX

WILLIAM BEN JOHNSON", DDS, Tulsa, OK

HOWARD MARTIN", DMD, Silver Spring, MD

ANDREW E. MICHANOWICZ", DDS, Pittsburgh, PA

FRANKLIN S. WEINE, DDS, MSD, Chicago, IL

JOHN D. WEST, DDS, MSD, Tacoma, WA

Do you favor one obturation method? Do you believe *your* technique is the most appropriate? Can you "justify your selection"? Could there be a better method? Is there a "standard" obturation method?

A panel of experts will stimulate a variety of opinions and controversy when probing the above queries. Each has shown a personal commitment to excellence with innovations and advancements in our discipline. The panelists will identify those specific factors that justify their "preferred" obturation technique. A provocative scenario for an audience "looking for answers" or debate!

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



**FRIDAY MORNING** (continued)

**RESEARCH SEMINARS III**

Auditorium

Moderators: FREDERIC BARNETT, DMD,  
Penn Valley, PA  
SAMUEL W. OGLESBY, DDS, MA,  
San Clemente, CA

**Graduate Student Section**

- 9:00 am Pulse oximetry as a definitive diagnostic tool  
JENIFER M. SCHNETTLER \* & J.A. WALLACE,  
Case Western Reserve Univ
- 9:15 am Reliability of electric pulp testing after pulpal testing  
with dichlorodifluoromethane  
CAROLE T. PANTERA \*, E.A. PANTERA, Jr, &  
R.W. ANDERSON, Medical College of Georgia
- 9:30 am Comparison of apically extruded debris using  
3 instrumentation techniques  
GARRY L. MYERS \*, Wilford Hall Medical Ctr &  
S. MONTGOMERY, Univ of Texas at San Antonio
- 9:45 am Cytotoxicity and dentin permeability of "nightguard"  
vital bleaching material in vitro  
JOHN C. FAT \*, J.F. CORCORAN & C.T. HANKS,  
Univ of Michigan
- 10:00 am An evaluation of the canal master, balanced force  
and step-back techniques  
PHILIP J. HANKINS \* & M.E. ELDEEB,  
Univ of Minnesota
- 10:15 am The effect of storage media of human PDL cells in  
extracted teeth  
SUDHA PATIL \*, T. DUMSHA & R. SYDISKIS,  
Univ of Maryland
- 10:30 am Effects of pulp exposure on periapical tissues of  
athymic rats  
JOHN B. WALLSTROM \* & M. TORABINEJAD,  
Loma Linda Univ
- 10:45 am Quantitative histometric analysis of development and  
healing of periapical lesions in cats  
WILLIAM J. PALANK \*, H.E. GRUBER &  
M. TORABINEJAD, Loma Linda Univ
- 11:00 am The effect of endodontic procedures on root dentin  
permeability  
LIWEN TAO \*, R.W. ANDERSON & D.H. PASHLEY,  
Medical College of Georgia
- 11:15 am Evaluation of mylohyoid and mylohyoid/IAN blocks in  
human mandibular anesthesia  
STEPHEN J. CLARK \*, A. READER, M. BECK &  
W. MEYERS, Ohio State Univ

11:30 am Evaluation of second division nerve blocks in human  
maxillary anesthesia  
RICHARD P. BROERING \*, A. READER, M. BECK &  
W. MEYERS, Ohio State Univ

11:45 am Effects of moisture content and endodontic treatment  
on some mechanical properties of human dentin  
TZYY-JOU G. HUANG \*, H. SCHILDER &  
D. NATHANSON, Boston Univ

\* Presenter

**GENERAL INTEREST SESSION III**

9:00 am- Renaissance East  
12:00 n Moderator: KATHRYN A. JURISKY, DDS, MS  
Manhattan Beach, CA

Building the specialty practice through increased  
referrals  
(This session will not be taped)  
ROGER P. LEVIN, DDS, MBA, Baltimore, MD  
Referrals are the most significant key to the  
successful development and growth of specialty  
practices. In this highly motivating seminar,  
Dr. Levin presents numerous suggestions for estab-  
lishing and maintaining intensive referral relation-  
ships. Using his advanced techniques, many  
practices have increased their referral rate by 30  
percent or more. Office staff is invited! *Recom-  
mended by and for the young professional.*

**LIMITED ATTENDANCE SEMINARS**

10:30 am- Limited seating. NO standing permitted  
12:00 n LAS 13 - Room 2  
OSHA guidelines: how they apply to dentistry  
(Repeat of LAS 7)

LAS 14 - Room 5  
Endo-perio: combined therapy  
LOUIS E. ROSSMAN, DMD, Philadelphia, PA  
KATSUEI MORI, DDS, Tokyo, Japan

The endodontist is part of a team rendering dental  
care to patients. Decisions concerning saving or  
extracting teeth are made daily. Sometimes these  
decisions are not routine and the entire treatment  
plan depends on the predictability of a procedure.  
This seminar will address those advanced clinical  
problems that involve endodontic and periodontal  
disciplines and principles. Special emphasis will be  
placed on diagnosis and treatment. Clinical solutions  
utilizing carefully documented step by step examples  
will be presented to help prognosticate successful  
results. Repeated as LAS 20.

**FRIDAY MORNING** *(continued)*

LAS 15 - Room 3

Hypnosis can help your endodontic practice  
**HOWARD L. PRANIKOFF, DDS, MScD,**  
 Ormond Beach, FL

Hypnosis techniques can help patients to overcome fears and apprehensions concerning endodontic treatment. A historical review and case studies will be discussed, followed by demonstrations and actual experience by the participants.

LAS 16 - Room 4

Nonsurgical retreatodontics: let's take up the challenge  
**PIERRE MACHTOU, DDS, CES, Paris, France**  
**ANNA G. COHEN, BDS, MS, Paris, France**

Most of the teeth to be retreated have already been restored. In order to recover canal patency, all the different obstructions must be removed: coronal restorations, radicular posts, root canal filling materials. This initial step is very challenging but is essential for the successful completion of the treatment. A detailed clinical approach involving all the current armamentarium available will be discussed.

LAS 17 - Room 16

Diagnosis and treatment of cracked teeth and vertical root fractures  
**WILLIAM T. JOHNSON, DDS, MS, Lincoln, NE**

Cracked teeth and teeth exhibiting vertical root fractures are often difficult to diagnose and treat. This seminar will focus on the etiology of each clinical entity and discuss the diagnosis, treatment planning, and therapeutic procedures for managing these common clinical problems.

LAS 18 - Room 15

Root amps and hemisections: "a cut above for the endodontist" (Repeat of LAS 6)

**FRIDAY AFTERNOON, APRIL 19**

**LUNCHEON WITH LEARNING**

12:00 n- Central Ballroom (by ticket only)  
 1:45 pm Moderator: **GREGORY T. ISERMANN, DDS, MS,**  
 Racine, WI



**Calvin D. Torneck**



**Jens O. Andreasen**

**Calvin D. Torneck**, recipient of the 1991 **Louis I. Grossman Award**. The Grossman Award is given to an AAE member for cumulative publication of significant research studies which have made an extraordinary contribution to endodontology.

**Jens O. Andreasen**, recipient of the 1991 **Ralph F. Sommer Award**. The Sommer Award is awarded for recognition to the principal author(s) of a publication of specific significance to the science and art of endodontology.

**GENERAL INTEREST SESSION IV**

2:00 pm- Renaissance East  
 5:00 pm Moderator: **CARL L. TINKELMAN, DMD,**  
 Philadelphia, PA

Dental considerations for the female patient: from puberty to menopause  
**BARBARA STEINBERG, DDS, Philadelphia, PA**

This course is designed to familiarize the dental team with various stages in women's lives when there are fluctuations in sex hormones. Time will be devoted to discussion of puberty, menses, pregnancy, menopause, oral contraceptives, hormonal replacement therapy and their effect on the oral cavity and dental therapy.

**NEED A BREAK?**

Visit the Technical Exhibits. Complimentary coffee service will be provided in the Exhibit Area on Thursday and Friday at 10:30 am and 2:30 pm.



## FRIDAY AFTERNOON (continued)

### LIMITED ATTENDANCE SEMINARS

2:00 pm- Limited seating. NO standing permitted.  
3:30 pm

#### LAS 19 - Room 2

The making of an endodontist: the four "P's"  
TERRYL A. PROPPER, DDS, MS, Nashville, TN

There is more to being a successful and complete endodontist than a gutta percha fill. This presentation will emphasize the four "P's" necessary to "have it all". This seminar is especially geared to *graduate students and new practitioners*. "The Making of an Endodontist" will discuss:

PERCEPTION: What you see is what you get!

PROMOTION: Creating a consistent image.

PROJECTION: Difficult questions, difficult answers.

PERFECTION: Doing the best job possible.

#### LAS 20 - Room 5

Endo-perio: combined therapy (Repeat of LAS 14)

#### LAS 21 - Room 4

Apical surgery: retrofilling? When and how  
GABRIELE PECORA, MD, DDS, Rome, Italy  
LUCIANO GIARDINO, MD, Rome, Italy

This presentation will focus on the situations in which it is necessary to perform a retrofilling. Also to be discussed is why, in many cases, it is better to carry out only the apical resection. The different stages of retrofilling as well as the alternative materials will be addressed and the opportunity of the use of a microscope will be evaluated in order to carry out the right choice of the filling material. Repeated as LAS 30.

#### LAS 22 - Room 15

Human performance in endodontics: searching for the best

MICHAEL M. BELENKY, DDS, MPH, Baltimore, MD

An occupational revolution that breaks the barriers to personal health and professional success. Leave back, neck, and shoulder pain to tradition. Reach your peak of perception, control, and achievement via proprioception and natural posture.

#### LAS 23 - Room 3

State of the art in laser therapy: new developments in clinical and surgical endodontics (Repeat of LAS 4)

#### LAS 24 - Room 16

Warm lateral condensation and new instrumentation (Repeat of LAS 2)

### SCIENTIFIC SESSION VII

2:00 pm- Renaissance - West A  
3:30 pm Moderator: ROBERT K. FLATH, DDS, Bluffton, SC

Treatment of infections and associated lesions of endodontic origin

J. CRAIG BAUMGARTNER, DDS, MS, PhD, Columbia, MD

Microorganisms produce threatening infections and inflammatory reactions that include acute/chronic apical periodontitis, acute/chronic alveolar abscess, and cellulitis. Treatment regimens will be presented that include drainage of soft and hard tissues, trephination, and decompression. Methods for microbial sampling and a hierarchy of antibiotic therapy will also be presented.

### SCIENTIFIC SESSION VIII

2:00 pm- Renaissance - West B  
3:30 pm Moderator: GARY R. HARTWELL, DDS, Richmond, WA

A clinical approach to maxillary molar surgery  
RALPH BELLIZZI, DDS, Ft Lewis, WA  
ROBERT J. LOUSHINE, DDS, Ft Benning, GA

A clear and concise approach to maxillary molar surgery which utilizes the current state-of-the-art techniques and materials. Anatomical landmarks, flap design, root resection and retroobturation are illustrated by a step-by-step clinical outline and aided by detailed clinical photos during each phase of the surgical procedure.



**FRIDAY AFTERNOON** (continued)

**RESEARCH SEMINARS IV**

Auditorium

Moderators: DAVID L. PITTS, DDS, MSD,  
Seattle, WA  
DAVID S. AUGUST, DDS, MS,  
York, PA

- 2:00 pm Pulpal cooling - the next generation device and coolant  
HAROLD E. GOODIS\*, K. KOWALSKI,  
J. ROBINSON, J.M. WHITE & L.G. WATANABE,  
Univ of California, San Francisco
- 2:15 pm Fluid flow of amalgam and cermet cement retrograde fillings  
KATHLEEN STREIFF BOYD\* & K.J. BRUGGERS,  
Univ of North Carolina
- 2:30 pm Comparison of coronal leakage in lateral condensation and thermafil obturations  
JAY K. TAYLOR\*, K.R. BAUMGARDNER & R.E. WALTON, Univ of Iowa
- 2:45 pm Endodontic retreatment of thermafil versus laterally condensed gutta-percha  
LISA R. WILCOX\* & J.J. JUHLIN, Univ of Iowa
- 3:00 pm Manipulative characteristics of core-filled gutta-percha cones  
STEFFAN SCHERER\* & J. JENSEN,  
Univ of Minnesota
- 3:15 pm Radicular penetration of 30% hydrogen peroxide during bleaching: in vitro  
ILAN ROTSTEIN\*, Hebrew Univ
- 3:30 pm Histologic characterization of bleaching-induced external root resorption in dogs  
CHAIM MOR\*, I. ROTSTEIN, S. FRIEDMAN,  
J. KATZENELSON, M. SOMMER & I. BAB,  
Hebrew Univ
- 3:45 pm Effects of ND:Yag laser on apical seal of teeth after apicoectomy and retrofill  
ADAM STABHOLZ\*, A. KHAYAT,  
S.H. RAVANSHAD & M. TORABINEJAD,  
Loma Linda Univ
- 4:00 pm Scanning electron microscopic study of resected teeth using ND:Yag laser  
AKBAR KHAYAT\*, A. STABHOLZ, D.A. WEEKS & M. TORABINEJAD, Loma Linda Univ

- 4:15 pm Human pulpal blood flow determination with laser doppler flowmetry  
TSUNEYASU IZAWA\*, Tokyo Univ, M. MOYNIHAN,  
M. LIU & S. KIM, Columbia Univ
- 4:30 pm Effects of CO<sub>2</sub> laser on pulpal blood flow  
MIN-TSAI LIU\*, Columbia Univ, T. IZAWA,  
Tokyo Univ, S. FRIEDMAN, Hebrew Univ,  
M. MOYNIHAN, J. DORSCHER-KIM & S. KIM,  
Columbia Univ
- 4:45 pm Histological study of the use of CO<sub>2</sub> laser in apical surgery  
SHIMON FRIEDMAN\*, I. ROTSTEIN, I. BAB,  
Hebrew Univ

\*Presenter

**SCIENTIFIC SESSION IX**

- 3:30 pm- Renaissance - West A
- 5:00 pm Moderator: WALTER T. CUNNINGHAM, DDS,  
Silver Spring, MD

Complex endodontic lesions and defects implanted with plaster composites reinforced by a biodegradable polyester mesh  
R. DENBY LEWIS, DDS, Danville, VA

Malleable composite hydroxylapatite/plaster of Paris or polymer/plaster of Paris mixtures were implanted in complex endodontic surgical defects after nonsurgical endodontic treatment had failed. In 141 surgery cases, 85% success rate was observed over healing periods of six months to four years.

**SCIENTIFIC SESSION X**

- 3:30 pm- Renaissance - West B
- 5:00 pm Moderator: ALBERT C. GOERIG, DDS, MS,  
Monterey, CA

Surgical management of large anterior lesions  
ROBERT A. AUGSBURGER, DDS, MS, MSD,  
Ft Huachuca, AZ

Endodontists have become the standard bearers in the diagnosis of many dental problems. This presentation will focus on the diagnosis and comprehensive management of large anterior radiolucent lesions. The gambit of surgical options will be discussed, culminating with the "sharp dissection" technique of enucleation. These practice-building techniques will yield higher success rates and reduced morbidity.





## SATURDAY MORNING, APRIL 20

### 7:30 am- **CONTINENTAL BREAKFAST**

8:30 am Central Ballroom (by ticket only)

### 8:00 am- **EXHIBITS**

12:00 n Exhibit Hall

### 8:30 am- **POSTER CLINICS**

11:30 am North Ballroom

PC 1 Evaluation of the endex apex locator with different foramen sizes  
ASHRAF F. FOUAD, BDS, MS, Iowa City, IA

PC 2 Cross sectional configuration of files compared with manufacturers' design  
JOSEPH E. D'SOUZA, DDS, Iowa City, IA

PC 3 Sealing ability of some canal obturating techniques  
GIN-ICHIRO HATA, DDS, Osaka, Japan

PC 4 Accuracy of placement of conductive gutta percha master cones  
ERIC M. RIVERA, DDS, MS, Iowa City, IA

#### **Graduate Student Section**

PC 5 The histologic study of vertical root fractures using freeze dried bone and hydroxylapatite  
JENNY G. BAJALCALIEV, DDS, Northwestern Univ

PC 6 Root canal shape of the mandibular first premolar  
MICHAEL K. BAISDEN, DDS, US Army Ft Gordon

PC 7 Cytotoxicity of dentin bonding agents  
GREGORY S. BRUCE, DDS,  
BRENDA K. RICHARDSON, DDS,  
Univ of Maryland

PC 8 An in vitro autoradiographic study of the sealing ability of lased hydroxyapatite plugs for the use as a retrofill material  
DAVID M. DOBIN, DDS, Northwestern Univ

PC 9 The distance between the maxillary sinus and the apexes of the maxillary posterior teeth  
JAMES A. EBERHARDT, DDS, Loma Linda Univ

PC 10 Removal of Ca(OH)<sub>2</sub> from the root canal  
KEITH H. FOSTER, DMD, US Army Ft Gordon

PC 11 Techniques for gutta-percha removal from the root canal  
RANDALL S. HILTNER, DMD, US Army Ft Gordon

PC 12 A clinical evaluation of the endocater-an electronic apex locator  
MICHAEL E. KELLER, DDS, MSD, Indiana Univ

PC 13 Osteogenic and antiresorptive effects of high calcium on mineralized tissues  
MARNA M. NII, DDS, Northwestern Univ

PC 14 Influence of instrument design on transportation of the root canal  
RUSSELL A. PAUL, DDS, Univ of Michigan

PC 15 Lateral condensation: an inside view  
SALAM SAKKAL, DMD,  
JEFFERY H. HEMBROUGH, DDS, Loyola Univ

PC 16 Effect of aging on responses of nerve fibers to pulpal inflammation  
MAUREEN L. SWIFT, DDS, Univ of Washington

PC 17 An in vitro autoradiographic leakage study of retrofilling materials in wet and dry environments  
DAVID J. TOCA, DDS, Northwestern Univ

PC 18 A comparison of three obturation techniques: an autoradiographic study  
MARK W. TODD, DMD, Northwestern Univ

PC 19 Effect of smear layer on in-vitro root canal bacterial colonization  
ALFRED H. WIEMANN, DMD, Univ of Iowa

### 8:30 am- **TABLE CLINICS**

11:30 am North Ballroom

TC 1 The use of grafting materials in endodontic surgery  
JEAN-YVES COCHET, DDS, &  
ISABELLE COCHET, DDS, Paris, France

TC 2 Endo-perio: the diagnostic dilemma  
KENT G. KNUDSON, DDS, Norfolk, VA

TC 3 The technical progress of pulpotomy in the 1930's and 1990's  
NICOLA PERRINI, DDS, Pistoia, Italy

TC 4 Alternative methods for mandibular nerve block  
RAHELE F. REZAI, DMD, MA, Washington, DC

TC 5 Adequacy of radiographs in endodontic  
HASSAN A. SELIM, BDS, MS, Riyadh, Saudi Arabia

TC 6 Maximization of insurance reimbursements for endodontic procedures  
JERRY F. TAINTOR, DDS, MS, Memphis, TN  
AHMID FAHID, DDS, Beverly Hills, CA

TC 7 Clinical survey of vertical root fractures  
TIZIANO TESTORI, DDS, Como, Italy



## SATURDAY MORNING (continued)

### Graduate Student Section

- TC 8 Decompression of a large periapical lesion  
JOYCE L. AWRAMIK, DDS,  
ROBERT E. BLUNDELL, DDS, Naval Dental School
- TC 9 Nature's I and D: draining sinus tract  
DEAN A. BURNETT, DDS, Northwestern Univ
- TC 10 Irrigating characteristics of subsonic, and ultrasonic hand pieces and irrigating needles  
JOSE A. DuLUC, DDS, New York Univ
- TC 11 Retreatment techniques for thermafil  
EDWARD K. GAMSON, DDS,  
BARTLEY T. QUILLIN, DDS, Univ of Maryland
- TC 12 Apical barrier & perforation repair with calcium hydroxide  
CRAIG S. HAGA, DDS,  
ROBERT J. CEISEL, DDS, Northwestern Univ
- TC 13 S-shaped canal systems  
SCOTT A. JOHNSON, DMD,  
Baylor College of Dentistry
- TC 14 Instrumentation of curved canals using four types of endodontic files  
MARTIN M. KATZMAN, DDS,  
JAMES A. WALLACE, DDS, MS, MSD, MDS, PhD,  
Case Western Reserve Univ
- TC 15 Use of hydroxyapatite matrix when sealing furcation perforations  
SAMUEL KRAMER, DDS, New York Univ
- TC 16 Using cyanoacrylate for endodontic isolation  
CHRISTOPHER A. LENTO, DMD,  
ROBERT K. FRISK, DDS, Naval Dental School
- TC 17 Salvaging a tooth with a separated instrument or silver cone  
MARIA C. MARANGA, DDS,  
CAROLINE NUP, DDS, New York Univ
- TC 18 Retrofill material in apical surgery  
BARZIN T. MASSARAT, DDS,  
MICHAEL J. RIBERA, DMD, Northwestern Univ
- TC 19 Laser dopplers and pulp vitality  
JULIAN R. D. MOISEWITSCH, BDS,  
JAMES M. MUSSELWHITE, DDS,  
Univ of North Carolina
- TC 20 Lymphoma of the jaws: signs and symptoms in three cases  
RALPH W. NIEMANN, DDS,  
JAMES G. KOTAPISH, Jr, DDS, West Virginia Univ
- TC 21 Techniques for post removal  
DON H. PRATTEN, DMD,  
NEVILLE J. McDONALD, BDS, MS,  
Univ of Maryland
- TC 22 Decompression: reduction of large periradicular lesions  
STEPHANIE L. SNYDER, DMD,  
Baylor College of Dentistry
- TC 23 A comparison of 3 techniques for placement of calcium hydroxide paste  
ROBERT STANCILL, DDS  
ASGEIR SIGURDSSON, DDS,  
Univ of North Carolina
- TC 24 Simple controlled root extrusion  
JEFFREY R. THORPE, DDS,  
JOHN C. CALHOUN, DMD, Naval Dental School

### LIMITED ATTENDANCE SEMINARS

8:45 am-10:15 am Limited seating. NO standing permitted.

#### LAS 25 - Room 2

Practice development: increasing patient load by increasing referral base  
MICHAEL E. KOSSAK, DDS, Washington, DC

This lecture will discuss how to develop a competitive edge over your colleagues and how to create an image with your patients and referring dentists that makes them appreciate you more.

#### LAS 26 - Room 3

Endodontics and third parties: insanity or reality  
MANUEL I. WEISMAN, DDS, Augusta, GA

Are you an endodontist or insurance agent? This seminar will help solve problems between the endodontist, patient and insurance company. Topics include: accident insurance dilemmas, attending endodontist's statements, insurance consultant relationships and office procedures to reduce insurance headaches in endodontic practice.

#### LAS 27 - Room 15

Dental components of aging: how to outlive your pulp  
DONALD R. MORSE, DDS, PhD, Philadelphia, PA

This presentation will discuss the use of dental components as an aging barometer in the practice of dentistry. In addition, application of this information to forensics and anthropology and methods to outlive the pulp will be presented.

**SATURDAY MORNING** (continued)

LAS 28 - Room 5  
Success and failure in endodontics  
(Repeat of LAS 8)

LAS 29 - Room 16  
Clinical use of sonics and ultrasonics in endodontics  
(Repeat of LAS 10)

LAS 30 - Room 4  
Apical surgery: retrofilling? When and how  
(Repeat of LAS 21)

**RESEARCH SEMINARS V**

Auditorium  
Moderators: ROBERT L. ELLISON, DDS, Detroit, MI  
HAROLD E. GOODIS, DDS,  
San Francisco, CA

9:00 am In vivo and in vitro glycosaminoglycans from human dental pulp  
CHUTIMA MANGKORNKARN \* & J.C. STEINER,  
Univ of California, Los Angeles

9:15 am Posttreatment endodontic symptoms: effect of administration of prophylactic penicillin  
JANE CHIAPPINELLI \*, R. WALTON & H. LOGAN,  
Univ of Iowa

9:30 am Intracanal pH changes of Ca(OH)<sub>2</sub> pastes exposed to CO<sub>2</sub> *in vitro*  
ZVI FUSS \*, R. RAFAELOFF, M. TAGGER &  
S. SZAJKIS, Tel Aviv Univ

9:45 am Radicular and periradicular wound healing following demineralization of resected root ends  
KATHLEEN R. CRAIG \* & J.W. HARRISON,  
Baylor College of Dentistry

10:00 am Simultaneous recording of pulpal blood flow and sensory nerve activities in the same tooth  
MICHAEL MOYNIHAN \*, K. MARKOWITZ, M. LIU &  
S. KIM, Columbia Univ

10:15 am Non-pathological periapical radiolucencies in mandibular molars with fused roots  
GUNNAR HASSELGREN \* & N. SERMAN,  
Columbia Univ

10:30 am Serum IgG reactive with oral anaerobic microorganisms  
J. CRAIG BAUMGARTNER \*, Walter Reed Medical Ctr, W.A. FALKNER, R.D. BERNIE & J.B. SUZUKI, Univ of Maryland

10:45 am A two year evaluation of the seal of endodontic retrofillings  
EUGENE A. PANTERA, Jr, \*, R.W. ANDERSON & D.H. PASHLEY, Medical College of Georgia

11:00 am Microleakage of amalgambond in endodontic retrofillings  
RONALD W. ANDERSON \*, D.H. PASHLEY & E.A. PANTERA, Medical College of Georgia

11:15 am Retreatment of root canals obturated in conjunction with difference sealers  
JOSHUA MOSHONOV \*, S. FRIEDMAN & M. TROPE, Hebrew Univ & Temple Univ

11:30 am Fracture resistant of bonded root segments  
CEMIL YESILSOY \*, S FRIEDMAN, J. MOSHONOV & M. TROPE, Hebrew Univ & Temple Univ

11:45 am Fracture resistance of endodontically treated roots  
HERBERT L. RAY, Jr, \* & M. TROPE, Temple Univ

\* Presenter

**GENERAL INTEREST SESSION V**

9:00 am- Renaissance East  
10:30 am Moderator: GERALD C. DIETZ, Sr, DDS,  
Birmingham, MI

Financial death can be catastrophic  
DONALD E. ARENS, DDS, MSD, Indianapolis, IN  
Whether it is caused by accident, illness or other means, financial death can in many cases be more of a problem than physical death. The experience can be devastating to everyone unless you are prepared.  
This lecture will explain the need for financial goals and the protection of income. It is important to recognize those goals change with age and need, but it all begins with recognizing what life would be for you and your family if the ability to earn ended.

**SCIENTIFIC SESSION XI**

9:00 am- Renaissance - West A  
10:30 am Moderator: ROLAND C. DUELL, DDS, MS,  
Lexington, KY

Endosseous implants in endodontic practice  
W. PAUL RADMAN, DDS, Dallas, TX  
The success of properly placed endosseous implants and the restorations they carry has gained respectability in dentistry. They are the treatment of choice today and in the future for many teeth that are endodontic failures or poor candidates for endodontic therapy. We will explore if they are for you.



## SATURDAY MORNING (continued)

### SCIENTIFIC SESSION XII

9:00 am- Renaissance - West B  
10:30 am Moderator: LAWRENCE S. VAZZANA, DDS,  
Clinton, MD

Retrograde filling materials: the changing standard  
SAMUEL O. DORN, DDS, Ft. Lauderdale, FL  
ARNOLD H. GARTNER, DDS, Southfield, MI

For many decades, amalgam has been accepted as the standard material for retrograde fillings. During the past decade, the properties of many materials have been investigated in a search for a more ideal retroseal. The speakers will present a synopsis of the literature, and will discuss the rationale for use of reinforced modified zinc oxide-eugenol compositions or modified zinc oxide-eugenol compositions containing ortho-ethoxy benzoic acid and eugenol in the liquid in retrograde situations. The handling properties and techniques for clinical usage of these materials will be discussed in detail.

### SCIENTIFIC SESSION XIII

10:30 am- Renaissance - West A  
12:00 n Moderator: LISA R. WILCOX, DDS, MS,  
Coralville, IA

The biophysical aspects in clinical endosonics  
A. DAMIEN WALMSLEY, BDS, MSc, PhD,  
Birmingham, England

It is important to understand the biophysical mechanisms involved with endosonic equipment so that clinical users are able to employ them safely and effectively. This symposium will cover the current instruments that are available together with an assessment of how well these instruments perform and how endodontic techniques need to be amended in respect to their biophysical operation.

### SCIENTIFIC SESSION XIV

10:30 am- Renaissance - West B  
12:00 n Moderator: JEAN-MARIE LAURICHESSE, DDS,  
Paris, France

Endodontic surgery: a specific approach for each part of the mouth  
BERTRAND G. KHAYAT, DDS, MSD, Paris, France

Endodontic surgery is now expected to be performed on almost any tooth. This presentation will address the specific aspects of the surgical approach for each part of the mouth and will focus on the different parameters which determine the flap design. Comprehensive techniques will be examined for each clinical situation.

## SATURDAY AFTERNOON, APRIL 20

### COOLIDGE LUNCHEON

12:00 n- Central Ballroom (by ticket only)  
2:00 pm Moderator: CHARLES J. CUNNINGHAM, DDS,  
Lexington, KY

*The war in the gulf with CNN*  
BOBBI BATTISTA, Anchorwoman, CNN AM News



Michael A. Heuer

**Michael A. Heuer**, recipient of the 1991 **Edgar D. Coolidge Award**. The Coolidge Award is presented annually to an AAE member who has had active participation in the AAE during the individual's professional lifetime and who has displayed leadership and exemplary dedication to dentistry and to endodontics.

2:30 pm- **GENERAL ASSEMBLY**  
5:00 pm Renaissance - West A

6:30 pm- **PAST PRESIDENTS' RECEPTION**  
7:30 pm Ballroom Foyer

7:30 pm- **PRESIDENT'S DINNER DANCE**  
Midnight Grand Ballroom (by ticket only)

As all good things must come to an end, so too must the 1991 AAE Annual Session. Bring out your finest evening attire (black tie optional) and join friends and colleagues as we trip the light fantastic! Live music and gourmet dining set the high standards for this evening of food and merriment. A cash bar will precede the dinner.



## SUNDAY, APRIL 21

8:00 am- **FAREWELL BREAKFAST BUFFET**  
8:45 am Central Ballroom (by ticket only)

### SCIENTIFIC SESSION XV

9:00 am- Renaissance - West A  
10:30 am Moderator: JEFFREY R. THORPE, DDS,  
Bethesda, MD

What's new in endodontics  
JAMES O. ROAHEN, DDS, MS, Bethesda, MD

This will present an overview of many of the various devices and techniques which have been added to the armamentarium of the endodontist in recent years. These devices will be briefly described and analyzed for pros and cons based upon current literature and their use at the Naval Dental School Endodontic Graduate Program.

### SCIENTIFIC SESSION XVI

9:00 am- Renaissance - West B  
10:30 am Moderator: JOYCE L. AWRAMIK, DDS,  
Bethesda, MD

Fascial space infections of odontogenic origin  
JEFFREY W. HUTTER, DMD, Bethesda, MD

Possessing the ability to diagnose and subsequently provide therapy to patients who present with a fascial space infection of dental origin is of paramount importance to the practicing endodontist. This very beneficial presentation will describe the location and anatomy of the clinically significant fascial spaces, and discuss the anatomical considerations inherent in the spread of odontogenic infections. In addition, the principles involved in examining and treating a patient with a dentoalveolar infection will be presented.

## AAE Auxiliary

### OFFICERS

Mrs. Linda Powell (William) ..... President  
Mrs. Cheryl Pranikoff (Howard) ..... President-Elect  
Mrs. Elizabeth Collins (Joe) ..... Vice President  
Mrs. Chizuko Shibuya (Arnold) ..... Secretary  
Mrs. Carol Belanger (Laurent) ..... Treasurer  
Mrs. Sue Zenk (Darrell) ..... Parliamentarian  
Mrs. Lisa Hicks (Lamar) ..... Local Arrangements

### WEDNESDAY, APRIL 17

3:00 pm- Welcome tea - Room 2  
4:30 pm

### THURSDAY, APRIL 18

3:45 pm- Board Meeting - Mrs. Powell's Suite  
5:00 pm

### FRIDAY, APRIL 19

2:00 pm- Renaissance East  
5:00 pm Dental considerations for the female patient: from puberty to menopause,  
BARBARA STEINBERG, DDS

### SATURDAY, APRIL 20

8:30 am- Auxiliary Breakfast - Rooms 12-14  
10:30 am Speaker to be announced  
11:00 am- Board Meeting - Mrs. Powell's Suite  
12:00 n

### TOURS

Welcome to Washington, \$20/person - Wed, 12:30-3:30 pm  
and Thu, 9-12 n & 12:30-3:30 pm  
Arlington Cemetery, Iwo Jima & Vietnam Veterans Memorial,  
\$24/person - Thu, 1-4 pm and Fri, 8:30-11:30 am  
Dumbarton Oaks, the Gardens of Tudor Place, Hillwood, and  
the Old Stone House, \$25/person - Fri & Sat,  
12:30-4:30 pm  
Embassy Row, Washington Cathedral & Woodrow Wilson  
House for Tea, \$28/person - Thu, 12:30-4:30 pm and  
Fri, 12:30-4:30 pm  
Mt Vernon & drive by Old Town Alexandria, \$26.50/person -  
Wed, 12:30-4:30 pm and Sat, 1:30-5:30 pm  
Mt Vernon with a stop in Old Town Alexandria, \$28.50/person-  
Thu, 8:30-2:30 pm  
State Dept Diplomatic Reception Rooms, \$20/person -  
(On-site registration only) Fri, 9-12 n  
VIP Capitol Hill, \$27/person - Thu, 1-4 pm and Fri, 9-12 n  
Washington after dark, \$20/person - Thu & Fri, 7:30-10 pm

Pre-registration tickets are to be picked up at the tour desk in the AAE registration area. If seats are available, tickets will be sold on-site. All tour buses depart from the K Street entrance of the Ramada Hotel.



## Board & Committee Meetings

	Room
<b>MONDAY, APRIL 15</b>	
ABE Board of Directors 8 am-6 pm .....	Board Room D
<b>TUESDAY, APRIL 16</b>	
R&E Foundation Trustees 8 am-5 pm .....	4
<b>WEDNESDAY, APRIL 17</b>	
AAE Board of Directors 8 am-5 pm .....	13 & 14
Honors & Awards 2 pm-5 pm .....	6
Public & Professional Affairs 2 pm-5 pm .....	7
<b>FRIDAY, APRIL 19, 7:30-8:45 am</b>	
Ad Hoc Governmental Affairs .....	1
Constitution & Bylaws .....	Board Room C
Dental Care & Clinical Practice .....	9
Editorial Board .....	6
Educational Affairs .....	8
Federal Dental Health Services .....	Board Room D
International Relations .....	7
Student/New Member Breakfast 7-8:30 am .....	Renaissance West A
Professional Standards, Peer Review & Ethics .....	14
Research & Scientific Affairs .....	Board Room B
<b>SATURDAY, APRIL 20, 7:30-8:45 am</b>	
Membership .....	Board Room C
Member Services .....	Board Room D
Past Presidents' Breakfast .....	Presidential Suite
Public & Professional Affairs .....	7
<b>SUNDAY, APRIL 21</b>	
AAE Board of Directors 9 am-5 pm .....	13 & 14

## American Board of Endodontics

**1991**  
 M. Lamar Hicks, Secy/Treasurer  
 F. James Marshall  
 Edward M. Osetek, President

**1992**  
 Leif K. Bakland  
 Louis E. Rossman  
 Robert Zelikow

**1993**  
 William E. Bernier  
 Robert L. Ellison  
 Arthur E. Skidmore

## Affiliates, Alumni & Other Groups

	Room
<b>WEDNESDAY, APRIL 17</b>	
US Army Assn of Endo 4:30-6 pm .....	8
<b>THURSDAY, APRIL 18</b>	
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Loma Linda Univ 7-10 pm .....	7
Michigan Assn 5:30-7 pm .....	15
North Carolina Assn of Endo 5-6 pm .....	6
Northwestern Alumni 6:30-8:30 pm .....	Chinese Gardens
Pennsylvania Academy 5-5:30 pm .....	1
Tufts Univ Alumni 6-10 pm .....	3
Univ of Maryland Alumni 6-8 pm .....	5
Univ of North Carolina Alumni - 6-7:30 pm .....	9
Univ of Southern California Alumni 7-9 pm .....	8
US Army Assn of Endo, 5-9 pm .....	Ft Myer, VA
<b>FRIDAY, APRIL 19</b>	
Albert Einstein Medical Center 6-8 pm .....	7
Baylor College Alumni 5:30-9 pm .....	6
Boston Univ Alumni 7-10:30 pm .....	Central Ballroom
Christian Endo Society 5-6 pm .....	1
Florida Assn of Endo 5-6 pm .....	15
Harry J. Healey Study Club 7-8:45 am .....	12
Iowa Endo Group 6-8 pm .....	9
LSU Alumni 6-8 pm .....	14
MCV Endo Alumni 6-8pm .....	10
Marshall Oregon/Ohio Alumni 6-8 pm .....	5
New York Univ Alumni 6-8 pm .....	16
Univ of Michigan Alumni 7-8:45 am .....	13
Univ of Pennsylvania Alumni 7-9 pm .....	Dr. Oliet's Suite
Univ of Washington Alumni 6:30-8:30 pm .....	8
<b>SATURDAY, APRIL 20</b>	
Boston Univ Alumni 7-8:45 am .....	8 & 9
Oklahoma Assn of Endo 7-8:45 am .....	1
USAF Assn of Endo 7-8:45 am .....	6
US Navy Assn of Endo 7-8:45 am .....	Floreale Restaurant

## Research & Education Foundation of the AAE

**1991**  
 Gary R. Hartwell  
 Sandra Madison, President  
 John W. Myers, Secy/Treasurer

**1993**  
 Harmon R. Katz  
 Robert J. Rosenberg  
 Bruce H. Seidberg  
 Joel C. Small

Ex officio: Eric J. Hovland

**1992**  
 Harold E. Goodis, Pres.-elect  
 Peter A. Paesani  
 Carl L. Tinkelman

**1994**  
 Donald D. Antrim  
 Wallace B. Brown  
 Carl W. Newton



# Principal Speakers



**Donald D. Antrim, DDS, MA, MS**  
Encinitas, CA  
Force Dental Officer, Naval Surface  
Force Pacific, US Navy



**Philip W. Cohen, DDS, MS**  
Livonia, MI  
Private practice



**James L. Gutmann, DDS**  
Dallas, TX  
Professor & Chairman, Department  
of Endodontics, Baylor College of  
Dentistry; also in private practice



**Donald E. Arens, DDS, MSD**  
Indianapolis, IN  
Associate Professor, Department of  
Endodontics, Indiana Univ; also in  
private practice



**Theodore P. Croll, DDS**  
Doylestown, PA  
Clinical Associate Professor,  
Univ of Pennsylvania; Adjunct  
Clinical Professor, Univ of Texas-  
Houston; also in private practice



**Jeffrey W. Hutter, DMD**  
Rockville, MD  
Department of Endodontics, Naval  
Dental School



**Robert A. Augsburger, DDS, MS,**  
Ft. Huachuca, AZ  
Commander, US Army Dental  
Activity



**Samuel O. Dorn, DDS**  
Ft. Lauderdale, FL  
Chairman of Advanced  
Endodontics, Dade County Dental  
Research Clinic; also in  
private practice



**William Ben Johnson, DDS**  
Tulsa, OK  
Private practice



**J. Craig Baumgartner, DDS, PhD**  
Columbia, MD  
US Army Institute of Dental  
Research, Walter Reed Army  
Medical Center



**Arnold H. Gartner, DDS**  
Southfield, MI  
Assistant Clinical Professor,  
Department of Endodontics, Univ of  
Detroit; also in private practice



**Bertrand G. Khayat, DDS, MSD**  
Paris, France  
Private practice



**Ralph Bellizzi, DDS**  
Ft. Lewis, WA  
Chief of Endodontics, US Army  
DENTAC



**Gerald N. Glickman, DDS, MS**  
Dallas, TX  
Associate Professor, Department of  
Endodontics, Baylor College of  
Dentistry; also in private practice



**Syngcuk Kim, DDS, PhD**  
New York, NY  
Professor & Chairman, Department  
of Endodontics, Columbia Univ;  
also in private practice



**Ronald R. Lemon, DMD**  
New Orleans, LA  
Chairman, Department of  
Endodontics, Louisiana State Univ;  
also in private practice



**Neville J. McDonald, BDS, MS**  
Baltimore, MD  
Assistant Professor, Baltimore  
School of Dental Surgery, Univ of  
Maryland



**A. Damien Walmsley, BDS, PhD**  
West Midlands, England  
Clinical Lecturer in Restorative  
Dentistry, Univ of Birmingham



**Roger P. Levin, DDS, MBA**  
Baltimore, MD  
President of dental management  
consulting firm; Consultant, ADA  
Council on Dental Practice; also in  
private practice



**Andrew E. Michanowicz, DDS**  
Pittsburgh, PA  
Private practice



**Jack A. Weichman, DDS, JD**  
Pacific Palisades, CA  
Professor of Endodontics, Univ of  
California at Los Angeles; arbitrator  
and judge pro tem for the Superior  
and Municipal courts of Los  
Angeles County



**R. Denby Lewis, DDS**  
Danville, VA  
Clinical Professor of Endodontics,  
Univ of North Carolina; also in  
private practice



**W. Paul Radman, DDS**  
Dallas, TX  
Clinical Instructor of Oral Surgery,  
Univ of Texas Southwestern  
Medical School; also in private  
practice



**Franklin S. Weine, DDS, MSD**  
Chicago, IL  
Professor & Director of Post-  
graduate Studies, Loyola Univ; also  
in private practice



**Robert J. Loushine, DDS**  
Columbus, GA  
Director, Department of Endodontics,  
Ft. Benning Dental Activity



**James O. Roahen, DDS, MS**  
Annapolis, MD  
Chairman, Department of  
Endodontics, Naval Dental School



**John D. West, DDS, MSD**  
Tacoma, WA  
Private practice



**Howard Martin, DMD**  
Silver Spring, MD  
Research Endodontist, Virginia  
Medical Center; also in private  
practice



**Barbara Steinberg, DDS**  
Philadelphia, PA  
Professor of Medicine, Assistant  
Director, Division of Dental  
Medicine, Medical College of  
Pennsylvania; also in private  
practice



**Robert R. White, DMD**  
Boston, MA  
Associate Professor, Director of  
Postgraduate Endodontics, Tufts  
Univ; also in private practice

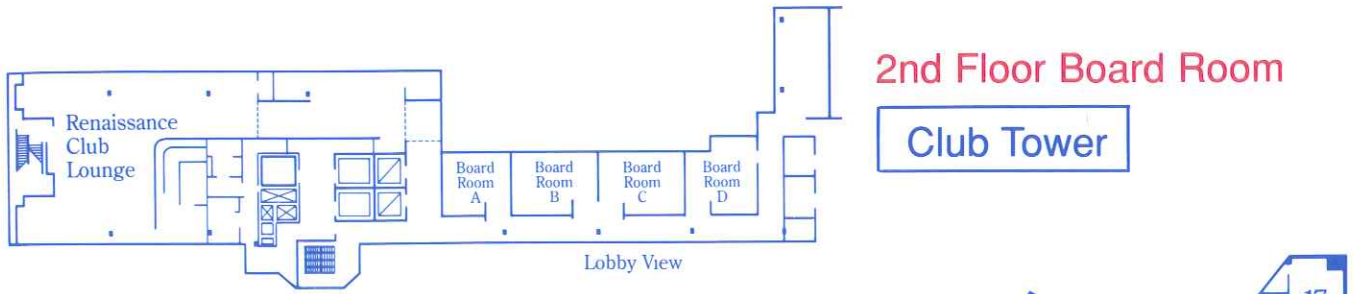




# Exhibitors' Index

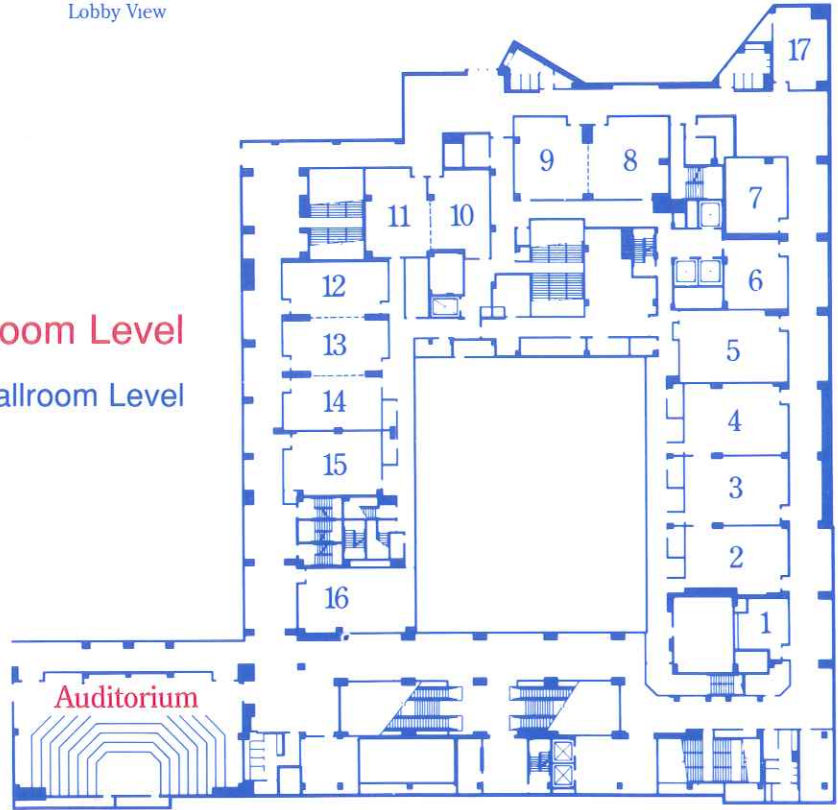
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52	Advanced Endodontic Concepts Inc. 7011 Shallowford Road, Ste 204 Chattanooga, TN 37421	42	Designs for Vision 760 Koehler Ave Ronkonkoma, NY 11779	28	Knoll Pharmaceuticals 30 N. Jefferson Road Whippany, NJ 07981	6	Quintessence Publishing 870 Oak Creek Drive Lombard, IL 60148
1	Amadent P.O. Box 733 Cherry Hill, NJ 08003	33	Dunvale Corp. 141 Union St Gilberts, IL 60136	36	Medidenta Int'l Inc. 39-23 62nd St Woodside, NY 11377	48	Rinn Corp/Greene Dent Prod 1212 Abbott Drive Elgin, IL 60123-1819
18	Analytic Technology Corp. 15233 NE 90th St Redmond, WA 98052	224	Ellman Int'l Mfg. Inc. 1135 Railroad Ave Hewlett, NY 11557	31	Microcopy 3120 Moon Station Road Kennesaw, GA 30144	17	Roydent Dental Products 6964 Crooks Road Troy, MI 48098
21	Aseptico Inc. P.O. Box 3209 Kirkland, WA 98083	7	Encyclopaedia Britannica USA 310 S. Michigan Ave Chicago, IL 60604	22	Micro-Designs Software Corp. 704 Executive Blvd Valley Cottage, NY 10989	2	Henry Schein Inc. 5 Harbor Park Drive Port Washington, NY 11050
45	Astra Pharmaceutical Products Inc. 50 Otis St Westborough, MA 01581	41	Endo Technic Corp. 3002 Dow Ave, #114 Tustin, CA 92680	14	Miles Inc Dental Products 4315 S. Lafayette Blvd South Bend, IN 46614	35	Charles B. Schwed Co. Inc. 138 Audley St Kew Gardens, NY 11418
37	Becker-Parkin Dental Supply Co. Inc. 245 Seventh Ave New York, NY 10001	46	Endoco Inc. 5180 Park Ave Memphis, TN 38119	11	Navy Recruiting Command 4015 Wilson Blvd Code 122, Rm 203 Arlington, VA 22203-1991	51	Texceed Corp/Obtura II 3001 Redhill Ave, Bldg 4-104 Costa Mesa, CA 92626
7	Block Drug Co. 257 Cornelison Ave Jersey City, NJ 07302	30	Essential Dental Systems Inc. 7 W. 36th St New York, NY 10018	16	Nephron Corp-Dental Div 321 E. 25th St Tacoma, WA 98421	40	Thermafil/Tulsa Dental 5001 E. 68th St, Ste 500 Tulsa, OK 74136
20	Brasseler USA 800 King George Blvd Savannah, GA 31419	19	Healthco Int'l Inc. 25 Stuart St Boston, MA 02116	43	OMSsystems Inc. 3120 Crossing Park Norcross, GA 30071	4	Treloar & Heisel Inc. 3132 Wilmington Road P.O. Box 5168 New Castle, PA 16105
10	Caulk/Dentsply P.O. Box 359 Milford, DE 19963	54	HealthFirst Corp. P.O. Box 279 Edmonds, WA 98020	34	Osada Electric Company Inc. 8242 W. Third St, #150 Los Angeles, CA 90048	39	Uniflex Endodontic Co. P.O. Box 1806 Troy, MI 48099
15	R. Chige Inc. 475 W. Merrick Road Valley Stream, NY 11580	26	Hu-Friedy Mfg. Company Inc. 3232 N Rockwell St Chicago, IL 60618	8	Premier/Espe-Premier 1710 Romano Drive Norristown, PA 19401	32	Union Broach 1212 Ave of the Americas, 24th Fl. New York, NY 10036
44	Coltene/Whaledent 236 Fifth Ave New York, NY 10001	12	Hygenic Corp. 1245 Home Ave Akron, OH 44310	3	Professional Results-Tooth Slooth 29 Merano Laguna Niguel, CA 92677	53	Whitehall Laboratories 685 Third Ave New York, NY 10017
49	Cygnus Instruments Inc. 1809 Cliff Drive, Ste D Santa Barbara, CA 93109	23	JS Dental Mfg. Inc. P.O. Box 904 Ridgefield, CT 06877	50	ProLybius Software Inc. P.O. Box 5203 Norman, OK 73069	<b>Non-Technical Exhibits</b>	
47	Dental Consultants Inc. P.O. Box 9046 Pittsburgh, PA 15224	13	Kelly Systems Inc. 6735 Telegraph Road, Ste 205 Birmingham, MI 48010	38	Pulpdent Corp. 80 Oakland St Watertown, MA 02272-0780	AAE Information Booth	
9	Dentsply/Equipment Division 570 W. College Ave York, PA 17405	29	Kerr Mfg. Co. 28200 Wick Road Romulus, MI 48174	5	Quality Aspirators P.O. Box 382120 Duncanville, TX 75138	Teach'em Inc. 160 E. Illinois St Chicago, IL 60611	
		25	Kilgore Int'l Inc. 36 W. Pearl St, P.O. Box 98 Coldwater, MI 49036				

# Ramada Renaissance Techworld



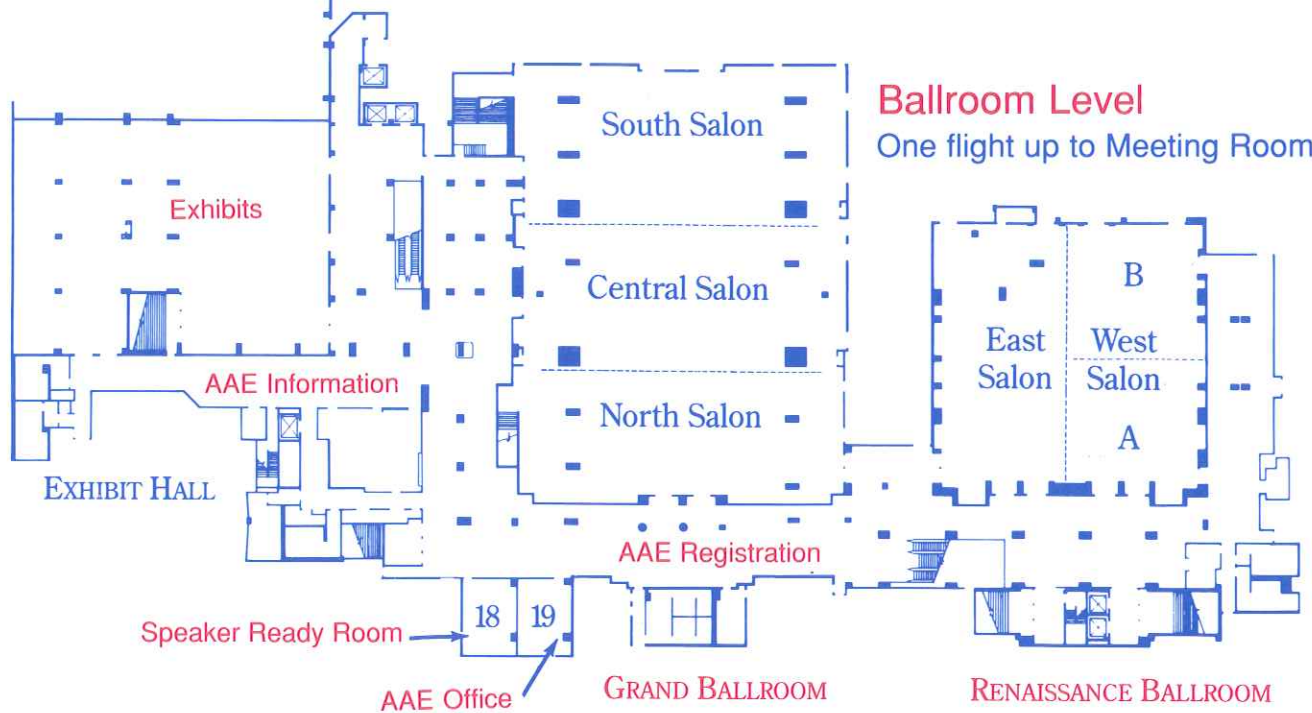
## Meeting Room Level

One flight down to Ballroom Level



## Ballroom Level

One flight up to Meeting Room Level





# Past Presidents

* W. Clyde Davis .....	'43-44
* Ralph F. Sommer .....	'44-45
* Robert G. Kesel .....	'45-46
* E. G. Van Valey .....	'46-47
Maynard K. Hine .....	'47-48
* Louis I. Grossman .....	'48-49
* Elmer A. Jasper .....	'49-50
* Raymond L. Girardot .....	'50-51
* George G. Sharp .....	'51-52
F. Darl Ostrander .....	'52-53
Laurence A. Lucas .....	'53-54
* N. Weir Burkman .....	'54-55
* Harry J. Healey .....	'55-56
John R. Pear .....	'56-57
* George C. Hare .....	'57-58
George G. Stewart .....	'58-59
* J. Henry Kaiser .....	'59-60
* Paul P. Sherwood .....	'60-61
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* Vincent B. Milas .....	'62-63
James H. Sherard Jr. ....	'63-64
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* Henry S. Schmidt .....	'65-66
John I. Ingle .....	'66-67
Edwin C. Van Valey .....	'67-68
Samuel S Patterson .....	'68-69
Warren J. Hedman .....	'69-70
John F. Bucher .....	'70-71
Dudley H. Glick .....	'71-72
I. B. Bender .....	'72-73
Charles A. Scott, Jr. ....	'73-74
Alfred L. Frank .....	'74-75
Robert A. Uchin .....	'75-76
Frank B. Trice .....	'76-77
George A. Zurkow .....	'77-78
Harry Blechman .....	'78-79
Paul E. Zeigler .....	'79-80
Edward M. Osetek .....	'80-81
Henry J. Van Hassel .....	'81-82
Noah Chivian .....	'82-83
Donald E. Arens .....	'83-84
Stephen F. Schwartz .....	'84-85
Herbert Schilder .....	'85-86
Michael A. Heuer .....	'86-87
Charles J. Cunningham .....	'87-88
Joseph D. Maggio .....	'88-89
Gerald C. Dietz, Sr. ....	'89-90

\*Deceased

# Award Recipients

## EDGAR D. COOLIDGE AWARD

* Edgar D. Coolidge .....	'69
* Harry B. Johnston .....	'70
* Henry A. Bartels .....	'71
Bertram L. Wolfsohn .....	'74
* Vincent B. Milas .....	'75
Worth B. Gregory .....	'78
Jacob B. Freedland .....	'80
Alfred L. Frank .....	'81
George G. Stewart .....	'82
F. Darl Ostrander .....	'83
Maynard K. Hine .....	'83
* George C. Hare .....	'84
* Irving J. Naidorf .....	'85
Harry Blechman .....	'86
I. B. Bender .....	'87
Dudley H. Glick .....	'88
Samuel S Patterson .....	'89
Robert A. Uchin .....	'90
Michael A. Heuer .....	'91

## LOUIS I. GROSSMAN AWARD

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

## 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

## HONORARY MEMBERS

- Mary Crowley
- Maynard K. Hine
- Oscar A. Maisto
- Harold R. Stanley
- Henry O. Trowbridge



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