

PROGRESS THROUGH EXCELLENCE



SAN ANTONIO



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*American Association of Endodontists
44th Annual Session
April 29-May 3, 1987
San Antonio, Texas*



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PRESIDENT'S MESSAGE

Welcome to San Antonio and to the 44th Annual Session of the American Association of Endodontists! San Antonio provides us with a graceful blend of the style and spirit of many cultures—Spanish, Mexican, French, Irish and German—in a unique historical setting.

In this thriving modern city, built around the site of early Spanish missions, the seat of government for Spanish and Mexican Texas, and of course, the famous Alamo (which provided the spark for Texas independence), you can enjoy a warm and friendly climate and an abundance of things for you and for your family to see and do.

The scientific meeting expands upon the theme of **Progress Through Excellence** and has been prepared for you by the team of Ed Osetek, General Chairman, and Joe Tenca, Program Chairman. They have attracted pre-eminent speakers and clinicians on those topics of importance and current interest to you in your practice. These presentations are designed to appeal to the wide range of interests of our membership and offer much of value to each and every one of you in attendance. They are organized into three distinct areas—General Interest Sessions, Scientific Sessions and Research Seminars—with presentations in the form of lectures, demonstrations, table/poster clinics and Limited Attendance Seminars. New to this Annual Session and of particular interest to those of you concerned about the Association and its role in the profession and society are the Thursday afternoon Reference Committee Hearings on Association affairs followed by meetings of the six district caucuses, which will select nominating committees for nomination of directors of the Association to be elected at the 45th Annual Session in Anaheim.

Carlos del Rio and his hard-working Local Arrangements Committee has provided you with a wonderful array of social functions. The San Antonio Convention Center as well as the Hilton and Hyatt Hotels are to be found along the Paseo del Rio (Riverwalk) bordering the San Antonio River as it winds its way through the heart of the city. Don't forget to explore the city's culinary delights, a variety of temptations highlighted by local fare including mesquite barbecues and tantalizing Tex-Mex.

Our thanks go out to Carlos, Joe and Ed as well as the members of the committees who have worked long and well to insure your enjoyment at this meeting. Special appreciation goes to Irma Kudo, our Executive Director, and her staff for bringing all the elements together in the meaningful way that is necessary for the success of great meetings. Our gratitude goes as well to all those contributing chairmen and clinicians who give their best to us at this time. Enjoy and refresh yourself while joining us in making your visit one in which you and yours will always remember the Alamo!

Michael A. Heuer

Michael A. Heuer, DDS, MS
President

AMERICAN ASSOCIATION OF ENDODONTISTS

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President



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Editor



Irma S. Kudo
Executive Director

BOARD OF DIRECTORS

1987

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Immediate Past-president: Herbert Schilder

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WELCOME

On behalf of the Program Committee, I wish to extend to you and your families a very warm welcome to the 44th Annual Session of the American Association of Endodontists.

The charm of yesterday still remains in San Antonio, where the ambience is casual with the emphasis on traditional Texas hospitality.

In keeping with the theme of "Progress Through Excellence," the program is designed to meet the challenge facing endodontists today by offering a wide variety of topics that are particularly relevant to our profession. We believe we have something for all members and their spouses, and we encourage you to take maximum advantage of the program. Your reward will be an educational, stimulating and entertaining experience.

Our thanks to the Local Arrangements Committee for their dynamic efforts in making this session a memorable one and to Irma Kudo and the Central Office staff for their usual invaluable assistance. My personal thanks to President Mike Heuer for his absolute confidence in the efforts of the Program Committee.

Enjoy our first meeting in San Antonio!

Joseph I. Tenca, DDS, MA
Program Chairman

ANNUAL SESSION COMMITTEE



Edward M. Osetek
General Chairman



Joseph I. Tenca
Program Chairman



Carlos del Rio
Local Committee Chairman

Program

Continuing Education	Carl W. Newton
Limited Attendance Seminars	M. Lamar Hicks
Research Seminars	Syngcuk Kim
Sunday Program	Joel B. Alexander
Table/Poster Clinics	Daniel R. Kozlowski
Technical Exhibits	Letty Catrambone
Printed Program	Irma S. Kudo

General Arrangements

Audio-Visual	William Masheter
Banquets & Meals	John W. Myers Charles J. Cunningham
Hospitality	George M. McWalter
Hosts	E. Steve Senia
Monitors	John D. Andrews
Registration	Glenn R. Walters Paul D. Eleazer
Signs	E. Jack Martin
Sports	William G. Schindler Charles L. Bruchmiller John W. Myers
AAE Auxiliary Chairperson	Carolyn Myers

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

GENERAL INFORMATION

The Hilton and Hyatt Hotels will be the Headquarters hotels for the 44th Annual Session. Unless otherwise indicated, all events will take place at the San Antonio Convention Center.

AAE Headquarters — Room 101

The headquarters will be staffed by members of the Central Office—Laura Cancilla, Letty Catrambone, Laura Hoekner, and Sandy Stueber—and by members of the Annual Session Committee. Office hours are 8 am-6 pm Wednesday through Friday and 8 am-5 pm on Saturday.

General Registration — Gallery

Wednesday, April 29: 11 am-8 pm
 Thursday, April 30: 8 am-6 pm
 Friday, May 1: 8 am-6 pm

Registration fees include the following:

- AAE MEMBERS (after March 15)
 - \$200 All Scientific Sessions (excluding surgery workshop), Welcome/Fellowship Fiesta, one full breakfast (Thursday), two lunches (Friday and Saturday), three continental breakfasts, and one ticket to the Dinner Dance (Saturday).
- AAE ASSOCIATE MEMBERS
 - \$250 Same as above (excluding surgery workshop).
- AAE STUDENT MEMBERS
 - \$75 All Scientific Sessions (excluding surgery workshop), Welcome/Fellowship Fiesta.
- NON-MEMBER PROFESSIONALS
 - \$225 All Scientific Sessions (excluding surgery workshop).
- NON-MEMBER STUDENTS
 - \$75 All Scientific Sessions (excluding surgery workshop).
- DENTAL AUXILIARIES
 - \$55 All Scientific Sessions (excluding surgery workshop).
- SPOUSES
 - \$55 Welcome/Fellowship Fiesta and use of the Auxiliary hospitality suite.

Exhibits — North 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 in San Antonio.

Complimentary coffee service will be provided on Thursday and Friday in the exhibit area, 10:30 am-12 Noon and 2:30 pm-4:00 pm.

Exhibit hours are:

Thursday, April 30: 10 am-6 pm
 Friday, May 1: 8 am-5 pm
 Saturday, May 2: 8 am-12 Noon

Limited Attendance Seminars

Tickets reserved in advance are included in each individual's registration packet. To register for an open seminar or to exchange tickets, inquire at the special desk located in the AAE registration area.

Cassette Tape Recordings

American Audio Association will record many of the sessions presented. The cassette tapes are available for purchase at the American Audio booth located in the registration area.

Speaker Ready Room — Room 104

Program participants are urged to review their audio visual material in the Speaker Ready Room prior to their presentation to avoid possible problems that may occur.

Saturday Dinner Dance

Your table selection for the Saturday 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.

Continuing Education Credit

Academy of General Dentistry—All course forms may be validated at the AAE headquarters office.
California Board of Dental Examiners—Information not available at press time.

IMPORTANT NOTICE

Be sure to exchange your voucher by 5:00 pm Thursday to reserve a seat for the Dinner Dance on Saturday. Your cooperation will be appreciated as **we cannot extend this deadline.**



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PROGRAM

Unless otherwise indicated, all programs listed will be conducted at the San Antonio Convention Center.

★ SUNDAY, APRIL 26

8:00 am- **ABE BOARD MEETING**
6:00 pm Hilton/La Duquesa Room

★ MONDAY, APRIL 27

8:00 am- **ABE BOARD MEETING**
6:00 pm Hilton/La Duquesa Room

★ TUESDAY, APRIL 28

8:00 am- **E & M FOUNDATION TRUSTEES MEETING**
5:00 pm Hyatt/Medina Room

8:00 am- **ABE ORAL EXAMS**
6:00 pm Hilton/La Vista Room

★ WEDNESDAY, APRIL 29

8:00 am- **AAE BOARD OF DIRECTORS MEETING**
5:00 pm Hyatt/Rio Grande West

8:00 am- **ABE ORAL EXAMS**
6:00 pm Hilton/La Vista Room

11:00 am- **REGISTRATION**
8:00 pm Gallery

CONTINUING EDUCATION COURSE

(Pre registration required)
Mission Room

Advanced scientific and clinical principles of surgical endodontics

Moderators: CARL W. NEWTON, DDS, MSD,
Indianapolis
JOEL B. ALEXANDER, DDS, MA,
San Antonio

- 8:30 am Welcome
- 8:45 am Biological basis of soft tissue management concepts and their application to posterior endodontic surgery
JOHN W. HARRISON, DMD, MS, Baylor College of Dentistry
- 10:15 am Coffee Break
- 10:30 am Periapical pathosis of endodontic importance
CHARLES E. TOMICH, DDS, MSD, Indiana University
- 11:30 am Evaluation for posterior endodontic surgery
DONALD D. ANTRIM, DDS, MS, MA, Naval Dental School
- 12 Noon Luncheon — Fiesta A, B, C Rooms
- 1:00 pm Illustrated surgical endodontic treatment of posterior teeth
DONALD D. ANTRIM, DDS, MS, MA, Naval Dental School
(Continuation of morning presentation)
- 3:00 pm Coffee Break
- 3:15 pm Surgical management of large lesions and lesions associated with vital pulps
WILLIAM R. ADAMS, DDS, MSD, Indiana University
- 4:30 pm Discussion
- 7:00 pm- **WELCOME/FELLOWSHIP FIESTA**
9:00 pm (By ticket only)
La Villita

SMOKING

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



THURSDAY MORNING, APRIL 30

8:00 am- **REGISTRATION**
6:00 pm Gallery

8:00 am- **OPENING SESSION BREAKFAST**
10:00 am (By ticket only)
North Banquet Hall

Special Guest: MAYOR HENRY G. CISNEROS

KEYNOTE: MICHAEL A. HEUER, DDS, MS
President, American Association of Endodontists

10:00 am- **EXHIBITS**
6:00 pm Exhibit Hall

SCIENTIFIC SESSION I — Mission Room
Moderator: DONALD E. ARENS, DDS, MSD,
Indianapolis

10:30 am- Restoration of endodontically treated teeth
12 Noon DAVID A. KAISER, DDS, MSD, San Antonio

A survey and overview of post and core systems will be presented. Included will be the advantages and disadvantages of the various systems with particular emphasis on occlusal considerations. The importance of biologic width in construction of post and cores will be discussed.

GENERAL INTEREST SESSION I

Fiesta A Room
Moderator: DUDLEY H. GLICK, DDS, Beverly Hills

10:30 am- Endodontic malpractice—how to avoid it
12:30 pm JACK A. WEICHMAN, DDS, JD, Pacific Palisades, CA

Endodontists are being caught-up in the current malpractice "crisis." Endodontics ranks first as the most frequently reported dental procedure relative to malpractice claims and these claims are against endodontists as well as general practitioners. This presentation will discuss how to avoid being sued, what to do if you are sued, and the role of the endodontist as an expert witness.

10:30 am- **LIMITED ATTENDANCE SEMINARS**
12:30 pm (Pre registration required)

LAS 1 Patio A Room
Endodontic applications of chemomechanical caries removal, the Caridex System
VAN T. HIMEL, DDS, New Orleans, LA

LAS 2 Room 107
The dynamics of modern endodontic surgery
JOHN W. HARRISON, DMD, MS, Dallas, TX

LAS 3 Room 108
Associateship and a sale/purchase agreement for an endodontic practice
JAMES H. PEARCE, Jr., DDS, Denver, CO

LAS 4 Room 102
Warm lateral condensation with the new Endotec
HOWARD MARTIN, DMD, Silver Spring, MD and GARY L. LaBOUNTY, DDS, Washington, DC

LAS 5 Fiesta B Room
Management of the curved canal
L. STEPHEN BUCHANAN, DDS, Santa Barbara, CA

LAS 6 Fiesta C Room
Endodontic burnout
RICHARD C. BURNS, DDS, San Mateo, CA



IMPORTANT NOTICE

Be sure to exchange your voucher by 5:00 pm Thursday to reserve a seat for the Dinner Dance on Saturday. Your cooperation will be appreciated as **we cannot extend this deadline.**



NEED A BREAK?

Visit the Technical Exhibits. Complimentary coffee service will be provided in the Exhibit Area (Exhibit Hall) on Thursday and Friday, 10:30 am-12 noon and 2:30 pm-4:00 pm.



PROGRAM (continued)

RESEARCH SEMINARS I — Fiesta D Room
Moderator: KEITH V. KRELL, DDS, MS, MA,
Iowa City

GRADUATE STUDENT SECTION

- 10:30 am Pain and suppression after pulpectomy with preoperative flurbiprofen
ROBERT K. FLATH*, DDS,
M. LAMAR HICKS, DDS, MS,
RAYMOND A. DIONNE, DDS, PhD and
GEORGE B. PELLEU, Jr., PhD, Naval Dental School
- 10:45 am Periodontal ligament injection: Efficacy in human maxillary and mandibular teeth
JEFFREY J. WHITE*, DDS,
ALFRED W. READER, DDS,
F. MICHAEL BECK, DDS, MA and
WILLIAM J. MEYERS, DMD, MEd, Ohio State University
- 11:00 am Analgesic efficacy of volumes of lidocaine in human maxillary infiltration
ALAN B. MIKESSELL*, DDS,
ALFRED W. READER, DDS,
F. MICHAEL BECK, DDS, MA and
WILLIAM J. MEYERS, DMD, MEd, Ohio State University
- 11:15 am The analgesic efficacy of mepivacaine and prilocaine in human IAN block
CELIA M. McLEAN*, DDS, MS,
ALFRED W. READER, DDS,
F. MICHAEL BECK, DDS, MA and
WILLIAM J. MEYERS, DMD, MEd, Ohio State University
- 11:30 am The presence of a systemic antibiotic in pulp-extirpated root canals
MING M. WANG*, BDS, MS,
JEFFREY HOOVER, DMD,
ROBERT R. WHITE, PhD and
JOHN R. LUDINGTON, Jr., DDS, University of Texas at Houston
- 11:45 am Drug regimens following maxillary sinus communication: Survey results
RANDALL J. JOHNSON*, DDS, University of Iowa and
SANDRA MADISON, DDS, MS, University of North Carolina
- 12 Noon Internal anatomy of maxillary first permanent molars in Egyptian population
ESSAM I. ZAATAR*, BDS, MS and
GARTH A. JAMES, DDS, MS, University of Nebraska



THURSDAY AFTERNOON, APRIL 30

12:30 pm- **LUNCHEON**
1:45 pm On your own

SCIENTIFIC SESSIONS II & III

Mission Room
Moderator: HARRY BLECHMAN, DDS,
New York

2:00 pm- Infection control in endodontics: The challenge
4:00 pm of hepatitis and AIDS
JAMES A. COTTONE, DMD, MS, San Antonio

Practical infection control is being adopted by endodontists in order to combat the threat of hepatitis, AIDS, and other infectious diseases to the health of the dentist, dental staff, and patients. The program will cover the impact and management of these infectious diseases and will review practical guidelines for infection control in the endodontist's office. Products currently available in the marketplace will also be discussed.

4:00 pm- Microbes, medications and malpractice
5:00 pm DONALD R. MORSE, DDS, Cherry Hill, NJ

The relationship of the endodontic microbial flora to flare-ups and serious sequelae and the role of antibiotics in preventing and treating these cases will be presented. Some dramatic malpractice cases related to non-use of antibiotics and microbiological culturing will be reviewed. Methods of avoiding the dire consequences resulting from inadequate treatment will be discussed.

2:00 pm- **LIMITED ATTENDANCE SEMINARS**
4:00 pm (Pre registration required)

LAS 7 Room 102
Repair of furcation perforations using a hydroxylapatite matrix
RONALD R. LEMON, DMD, New Orleans, LA

LAS 8 Room 107
Understanding the marketplace for dental plans
GREGORY T. ISERMANN, DDS, MS,
Milwaukee, WI

LAS 9 Room 108
Predictable success and failure in endodontics
JERRY F. TAINTOR, DDS, MS, Sherman Oaks, CA and
ROBERT C. BIESTERFELD, DDS, MS, Brooklyn Center, MN

RESEARCH SEMINARS II — Fiesta D Room
 Moderator: SYNGCUK KIM, DDS, PhD,
 New York

GRADUATE STUDENT SECTION

- 2:00 pm Pulpal biocompatibility of two photo cured Ca(OH)₂ containing materials
 W. BRUCE HOWERTON, Jr.*, DDS and CHARLES F. COX, MS, University of North Carolina
- 2:15 pm Histologic study of healing of induced root fractures in baboons
 FATHY M. EL-HOSSEINY*, BDS, ANDREW E. MICHANOWICZ, DDS, R. MUNDELL, PhD and J. SCHMUTZ, PhD, University of Pittsburgh
- 2:30 pm The effects of two spreader types on the incidence of root fracture and the production of root distortion during canal obturation
 DARRELL A. DANG*, DDS, MS and RICHARD E. WALTON, DMD, MS, University of Iowa
- 2:45 pm Clinical factors associated with ledged canals in maxillary and mandibular molars
 KATHLEEN J. GREENE*, DDS and KEITH V. KRELL, DDS, MS, MA, University of Iowa
- 3:00 pm The effects of ultrasonic instrumentation on the developing toothbud
 MARK A. ODOM*, DDS, VAN T. HIMEL, DDS and JIM C. WEIR, DDS, JD, Louisiana State University
- 3:15 pm An in vitro comparison study to quantitate the debridement ability of hand, sonic, and ultrasonic instrumentation
 DAVID E. STAMOS*, DDS, EZEDIN M. SADEGHI, DDS, MS, GREGORY C. HAASCH, DDS and HAROLD GERSTEIN, DDS, Marquette University
- 3:30 pm Acoustic cavitation and its implications in ultrasonic root canal debridement
 MAJINAH BTE AHMAD*, BDS, MDSc, T.R. PITT FORD, BDS, PhD, Guy's Hospital, England and L.A. CRUM, MS, PhD, University of Mississippi
- 3:45 pm Curved molar root canal instrumentation study using large straight files
 DENNY W. SOUTHARD*, DDS, MSD, ROBERT J. OSWALD, DDS and EUGENE NATKIN, DDS, MSD, University of Washington

- 4:00 pm Effect of modified instrument tips on apical canal configuration
 STEVEN E. POWELL*, DDS, PERRY D. WONG, DDS and JAMES H. SIMON, DDS, VA Medical Center, Long Beach
- 4:15 pm Effect of heat treatment on the torsional ductility of files
 HARMEET WALIA*, BDS, MDS, MS, WILLIAM A. BRANTLEY, MS, PhD, HAROLD GERSTEIN, DDS and LEO J. MISERENDINO, DDS, MS, Marquette University
- 4:30 pm Efficiency of different solvents on paste-filled root canals
 ANNA G. COHEN*, BDS and HERBERT SCHILDER, DDS, Boston University

*Presenter

2:00 pm- **REFERENCE COMMITTEE HEARINGS**

3:30 pm (Open forums to present your views on AAE activities.)

Association Affairs — Patio A
 Membership — Fiesta A
 Member Services — Fiesta B
 Communications/Publications — Fiesta C
 Education/Development — River A

3:30 pm- **DISTRICT CAUCUSES**

5:00 pm (Each District is to select its Nominating Committee and discuss issues of mutual concern among the District States.)

DISTRICT I Caucus — Patio A
 CT, DE, DC, MA, MD, ME, NH, PA, PR, RI, VA, VT

DISTRICT II Caucus — Fiesta A
 NJ, NY

DISTRICT III Caucus — Fiesta B
 Air Force, Army, FL, GA, Navy, NC, Public Health, SC, Veterans Admin.

DISTRICT IV Caucus — Fiesta C
 IL, IN, KY, MI, OH, TN, WV, WI

DISTRICT V Caucus — River A
 AL, AZ, AR, CO, IA, ID, KS, LA, MN, MS, MO, MT, NE, NV, NM, ND, OK, SD, TX, UT, WY

DISTRICT VI Caucus — Fiesta E
 AK, CA, HI, OR, WA

4:30 pm- **AADS SECTION MEETING**

5:30 pm Room 102



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PROGRAM (continued)



FRIDAY MORNING, MAY 1

- 6:00 am **FUN RUN**
(Pre registration required. Participants will depart from the main entrance of the Hilton Hotel.)
- 7:00 am- **GOLF**
1:00 pm Sonterra
(Pre registration required. Participants will depart from the Market Street entrance of the San Antonio Convention Center.)
- 8:00 am- **REGISTRATION**
6:00 pm Gallery
- 8:00 am- **CONTINENTAL BREAKFAST**
8:45 am Exhibit Hall
- 8:00 am- **EXHIBITS**
5:00 pm Exhibit Hall
- 8:30 am- **TENNIS**
12 Noon McFarlin Tennis Center
(Pre registration required. Participants will depart from the Market Street entrance of the San Antonio Convention Center.)

SURGERY WORKSHOP

University of Texas at San Antonio
(Pre registration required. Participants will depart from the Market Street entrance of the San Antonio Convention Center.)

Session I: 8:30-11:30 am Session II: 2:00-5:00 pm
(Bus departs at 8:00 am) (Bus departs at 1:30 pm)

COURSE DIRECTOR: James L. Gutmann, DDS,
Dallas

COURSE FACULTY: Donald D. Antrim, Donald E. Arens, Ralph Bellizzi, Robert M. Block, Raleigh R. Cummings, Thom C. Dumsha, Harold Gerstein, Albert C. Goerig, John W. Harrison, Eric J. Hovland, John G. Kostohryz, Paul E. Lovdahl, F. James Marshall, Alan J. Nevins, Carl W. Newton, Hedley Rakusin, Louis E. Rossman, Khodabakhsh Salamat, Ramona M. Torgerson

GENERAL INTEREST SESSIONS II & III

Fiesta A Room

Moderators: STEPHEN COHEN, DDS, San Francisco
STEVEN G. MORROW, DDS, Loma Linda, CA

- 9:00 am- The management and marketing of an en-
5:00 pm dodontic practice
FRANCIS G. EDWARDS, Palo Alto, CA

In spite of heavy reliance on general practitioner referral, endodontists can build neighborhood reputations for efficient, sensitive service. Their goal should be to make a missionary out of every patient. A missionary is one whose legitimate expectations were exceeded by excellent care. Understanding modern management and marketing techniques is an essential pre-requisite. These sessions will be divided into four parts: Without planning, you dare not delegate; Without delegation you cannot motivate; An effective practice is an attractive practice; Making a missionary out of every patient.

9:00 am- LIMITED ATTENDANCE SEMINARS

11:00 am (Pre registration required)

LAS 10 Room 108

(repeat)

Associateship and a sale/purchase agreement for an endodontic practice
JAMES H. PEARCE, Jr., DDS, Denver, CO

LAS 11 Room 107

The new panaceas in endodontics
JAMES H. SIMON, DDS, Tustin, CA

LAS 12 Patio A Room

So you want to publish!
STEVE MONTGOMERY, DDS, San Antonio

LAS 13 Room 102

How instrument design and rotation conquer curvature
JAMES B. ROANE, DDS, MS, Norman, OK

LAS 14 Fiesta B Room

The diagnostic dilemma of pulpalgia and referred pain
E. STEVE SENIA, DDS, San Antonio

LAS 15 Fiesta C Room

(repeat)

Endodontic burnout
RICHARD C. BURNS, DDS, San Mateo, CA

SCIENTIFIC SESSIONS IV, V, & VI

Mission Room

Moderator: CARL L. TINKELMAN, DMD, Philadelphia

- 9:00 am- Etiological factors for endodontic flare-ups
10:00 am SAMUEL SELTZER, DDS, Philadelphia

The factors responsible for pain and swelling during and after endodontic therapy will be presented. The presentation will focus on microbial and chemical irritants which are present in the root canal. These include the prostaglandins, leukotrienes, platelet-activating factor, lymphokines, complement, and endotoxin.

- 10:00 am- Immunology of endodontic flare-ups
11:00 am JAMES KETTERING, MS, PhD, Loma Linda, CA

A brief overview of immunology currently recognized as significant in endodontics will be given. Specific immunological processes, centering around IgE biology, which may play a role in endodontic flare-ups, will be presented. Evidence described in current literature reports will be emphasized.

- 11:00 am- Clinical management of endodontic flare-ups
12 Noon MELVIN GOLDMAN, DDS, Boston

In recent years, increasing attention is being given to the implications of various immunological phenomena and their relationship to endodontics. A recent clinical study reveals that patients with allergies had a 33.9% incidence of flare-ups, while those without had a 13.2% incidence. The effect of this and other studies in progress on the clinical management of endodontic flare-ups will be presented.

RESEARCH SEMINARS III

Fiesta D Room

Moderator: MAHMOUD TORABINEJAD, DDS, MSD, Loma Linda, CA

- 9:00 am A comparative investigation of the root form and canal anatomy of first and second mandibular molars in a southern Chinese population
R.T. WALKER*, Prince Philip Dental Hospital, Hong Kong

- 9:15 am The periapical neural response to pulpectomy: A 3-dimensional study
GRAHAM R. HOLLAND*, BDS, PhD, University of Alberta

- 9:30 am Smear layer with sonic and ultrasonic endodontic instrumentation
KEITH V. KRELL*, DDS, MS, MA and DARRELL A. DANG, DDS, MS, University of Iowa

- 9:45 am Effect of varying ultrasonic power on instrumentation time and prepared canal shape
CRAIG L. WALSH*, DMD, MAHMOUD E. EIDEED, DDS, MS and HAROLD H. MESSER, MDSC, PhD, University of Minnesota

- 10:00 am Coronal microleakage in endodontically treated teeth: An in vivo study
LISA R. WILCOX*, DDS, University of Iowa and SANDRA MADISON, DDS, MS, University of North Carolina

- 10:15 am Microleakage of temporary endodontic restorations
RONALD W. ANDERSON*, DDS, BILLY J. POWELL, DMD and DAVID H. PASHLEY, DMD, PhD, Medical College of Georgia

- 10:30 am Evaluation of antimicrobial properties of various root canal sealers
AIDA A. CHOHAYEB*, DDS, MSD, Howard University and MICHAEL COLE, BDS, PhD, Georgetown University

- 10:45 am Oxygenated perfluorocarbons in the treatment of teeth with infected root canals
FREDERIC BARNETT*, DMD, MARTIN TROPE, BDS, DMD and LEIF TRONSTAD, DMD, PhD, University of Pennsylvania

- 11:00 am Indirect immunofluorescence for detection of Bacteroides species
EUGENE A. PANTERA, Jr.*, DDS, Medical College of Georgia, JOSEPH J. ZAMBON, DDS, PhD and MING SHIH LEVINE, DDS, MS, SUNY at Buffalo

*Presenter



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PROGRAM (continued)



FRIDAY AFTERNOON, MAY 1

12 Noon- **LUNCHEON**
1:45 pm North Banquet Hall

Presentation of the Sommer Award.
Dr. Amy Freeman Lee, whose career spans the fields of art, education, civic affairs and humane ethics, will be the featured speaker.

SCIENTIFIC SESSIONS VII & VIII

Mission Room
Moderator: I.B. BENDER, DDS, Philadelphia

2:00 pm- Mechanisms of oral-facial pain and its control
3:30 pm **BARRY SESSLE, BDS, MSD, PhD, Toronto, Canada**

This presentation will focus on (1) recently identified critical neural elements in the brain that are concerned with transmitting oral-facial pain; (2) some of the recent findings of modulatory influences controlling pain transmission; and (3) insights, which these findings provide, into how particular pain problems may arise.

3:30 pm- It's only a little stress?
5:00 pm **ROBERT F. KALTENBACH, PhD, Augusta, GA**

Personal stress control for the endodontist. As an endodontist you are well aware of the stresses faced each day. As a person you may not be aware of how stress is affecting your body. This program will present "whys" and "wherefores" of personal stress but will focus on stress reduction procedures that may be done at chairside or in the office.

2:00 pm- **LIMITED ATTENDANCE SEMINARS**
4:00 pm (Pre registration required)

LAS 16 Patio A Room
Endodontics and third parties: insanity or reality?
MANUEL I. WEISMAN, DDS, Augusta, GA

LAS 17 Room 107
Success and failure in endodontics—a portrait of false expectations
RALPH BELLIZZI, DDS, Ft. Benning, GA

LAS 18 Room 108
Endodontics on exotic animals
CARL L. TINKELMAN, DMD, Philadelphia, W. PAUL BROWN, DDS, Palo Alto, CA, JAMES C. MCGRAW, DDS, Bellevue, WA and WILLIAM D. POWELL, DDS, Knoxville, TN

LAS 19 Room 102
Use of non-steroidal anti-inflammatory agents and steroidal drugs in endodontics
MICHAEL K. GAYNOR, DDS, Chicago

LAS 20 Fiesta B Room
Injectable warm gutta percha with the obtura—what can it do for the endodontist?
JAY MARLIN, DMD, Worcester, MA

LAS 21 Fiesta C Room
Radiographic interpretation
ALBERT C. GOERIC, DDS, MS, Monterey, CA

GENERAL INTEREST SESSION III

Fiesta A Room
Moderator: **STEVEN G. MORROW, DDS**
Loma Linda, CA

2:00 pm- The management and marketing of an
5:00 pm endodontic practice
FRANCIS G. EDWARDS, Palo Alto, CA
(Continuation of morning session)

NEED A BREAK?

Visit the Technical Exhibits. Complimentary coffee service will be provided in the Exhibit Area (Exhibit Hall) on Thursday and Friday, 10:30 am-12 noon and 2:30 pm-4:00 pm.

RESEARCH SEMINARS IV — Fiesta D Room
 Moderator: GUNNAR BERGENHOLTZ, DDS,
 Chapel Hill

- 2:00 pm The correlation of delayed permanent restoration with endodontic prognosis
 KAMRAN E. SAFAVI*, DMD,
 WILLIAM E. DOWDEN, DDS and
 KAARE LANGELAND, DDS, PhD, University of Connecticut
- 2:15 pm Cervical root resorption following bleaching of endodontically treated teeth: An in vivo study
 SANDRA MADISON*, DDS, MS, University of North Carolina,
 RICHARD E. WALTON, DMD, MS and
 SUSAN A. CHILES, CDA, University of Iowa
- 2:30 pm Resorption after physiologic and rigid splinting of monkey permanent incisors
 JOHN A. BERUDE*, DDS,
 M. LAMAR HICKS, DDS, MS,
 JEROME J. SAUBER, DVM and
 SHOU-HUA LI, MS, Naval Dental School
- 2:45 pm Instrumentation of curved canals using a modified tipped instrument: A comparison study
 CLYDE L. SABALA*, DDS,
 JAMES B. ROANE, DDS, MS and
 LINDA Z. SOUTHARD, DDS, MSD, University of Oklahoma
- 3:00 pm Efficacy of obtura and ultrafil root filling devices
 KAARE LANGELAND*, DDS, PhD,
 KENNETH LIAO, DDS,
 NEY COSTA, DDS and
 ELIZEU A. PASCON, DDS, MSD, University of Connecticut

- 3:15 pm Correlation between geometrical design and cutting efficiency of endodontic files
 NAGEAB ABOUL-ENEIN*, BDS, MS,
 S. IBRAHIM, BDS, MS and
 M. JOMHA, BDS, MS, PhD, Cairo University, Egypt
- 3:30 pm Sealing ability of intermediate restorations and cavity design used in endodontics
 RAHMAT A. BARKHORDAR*, DMD,
 MARVIN M. STARK, DDS and
 LARRY G. WATANABE, University of California at San Francisco
- 3:45 pm New approach for sealer application into the prepared root canals
 NAGEAB ABOUL-ENEIN*, BDS, MS,
 S. IBRAHIM, BDS, MS and
 S. ELASHRY, BDS, MS, PhD, Cairo University, Egypt
- 4:00 pm Biocompatibility of endodontic sealers
 ELIZEU A. PASCON*, DDS, MSD,
 LARZ SPANGBERG, DDS and
 KAARE LANGELAND, DDS, PhD, University of Connecticut
- 4:15 pm Sealability of calcium hydroxide sealers in curved and straight canals
 AHMED MASSOUD*, BDS, MS, Alexandria University, Egypt and
 TAHANY M. HAMDY, BDS, MSCD, Tanta University, Egypt

*Presenter

BADGES MUST BE WORN AT ALL OFFICIAL AAE FUNCTIONS

CASSETTE TAPES OF SCIENTIFIC SESSIONS

are available from American Audio Association in the Registration area.



PROGRAM (continued)



SATURDAY MORNING, MAY 2

8:00 am- **CONTINENTAL BREAKFAST**
8:45 am (By ticket only)
Exhibit Hall

8:00 am- **EXHIBITS**
12 Noon Exhibit Hall

SCIENTIFIC SESSIONS IX & X

Mission Room

Moderator: GARTH A. JAMES, DDS, MS,
Lincoln, NE

9:00 am- Non-surgical retreatment of endodontic failures
10:30 am R. DENBY LEWIS, DDS, Danville, VA

Today's endodontist must be equipped to manage a wide spectrum of referred failures. Whether or not surgery is anticipated, non-surgical retreatment must first be considered. This program deals with non-surgical retreatment techniques including the use of sonic and ultrasonic instruments, solvents, the Masserann Kit, and assorted grasping instruments.

10:30 am- Surgical retreatment of endodontic failures
12 Noon ROBERT M. BLOCK, DDS, MS, Flint, MI

The high incidence of referred failures has resulted in an increase in the number of indications for surgical retreatment. When non-surgical retreatment is unable to be accomplished, surgical intervention is indicated. Numerous cases including videotaped surgical procedures will be demonstrated. Emphasis will also be placed on anatomic and periodontal considerations during treatment.

GENERAL INTEREST SESSION IV

(For members and spouses)

Fiesta A & B Room

Moderator: CHARLES J. CUNNINGHAM,
DDS, Lexington, KY

9:00 am- Sex and intimacy
12 Noon DOMEENA C. RENSHAW, MD, Maywood, IL

Intimacy is a special word for special closeness. Having sex and making love are not synonymous. Couple attendance is encouraged at this workshop which will explore, with explicit audiovisuals, the barriers and the benefits of intimacy. Those who may be offended may opt not to attend.

8:30 am- **POSTER CLINICS**
11:30 am Exhibit Hall

PC 1 Changes of PH in the media surrounding teeth after bleaching procedure—in vitro study
ZVI FUSS, DMD, and
SULIM SZAJKIS, DMD, Tel-Aviv, Israel

PC 2 The application of biochemical agent to endodontics
MITSURU OTANI, DDS, DMS, Tokyo, Japan

PC 3 C-shaped root canals in bimaxillary molars in Chinese population
ZU-PYN YANG, BDS and
SHUE-FEN YANG, BDS, Taipei, Taiwan

PC 4 Canal enlargement comparisons between sonic, ultrasonic and mechanical methods
KENNETH L. ZAKARIASEN, DDS, Halifax, Canada

GRADUATE STUDENT SECTION

PC 5 Dentin bonded post and cores: an in vitro failure analysis
ROBERT A. COLEMAN, DDS, University of Michigan

PC 6 A study of the relationship of the mandibular canal to the apices of the mandibular posterior teeth in dried human mandibles
DALE DENIO, DDS, Loma Linda University

PC 7 Some 'loco' laterals
ARTHUR J. LeCLAIRE, DMD and
WILLIAM D. JARVIS, DDS, West Virginia University

PC 8 A(ardvark) to Z(ebra) of animal endodontics
JOAN B. LEVINE, DDS, VA Medical Center
New York

PC 9 A comparison of two temporary restorations: light-cured resin vs. a self-polymerizing temporary
DARLENE C. MELTON, DDS and
STUART S. COBB, DDS, University of Iowa

PC 10 Vital tooth bleaching—the patient's viewpoint
SCOTT W. MORRISON, DDS, Indiana University

PC 11 Communicative and psychological techniques for the management of apprehensive dental patients
RICHARDSON M. ODUM, DMD, Louisiana State University

PC 12 Demonstration of inflammatory changes to nerve tissue in rat dental pulp using CGRP immunocytochemistry
CHARLES L. KIMBERLEY, DDS, University of Washington

8:30 am- **TABLE CLINICS**
11:30 am Exhibit Hall

- TC 1** Combined periodontic and endodontic lesions: diagnosis and treatment
RAHMAT A. BARKHORDAR, DMD and
NGUYEN T. NGUYEN, DDS, San Francisco
- TC 2** Video and fiberoptics in endodontics
SEYMOUR FRIEDMAN, DDS, Stony Brook,
NY
- TC 3** A new technique for root canal first
penetration
JEAN-MARIE LAURICHESSE, DDS and
CATHERINE R. RICCI, DDS, Paris
- TC 4** The canal finder: a new approach towards en-
dodontic instrumentation
JACK LEVI, DDS, Teaneck, NJ
- TC 5** Ability and efficacy of a new endodontic
device for curved root canal
GUY LEVY, DDS, Marseille, France
- TC 6** Light cured temporary endo restorative
material—a comparative study
MARVIN O. LUDLOW, DDS, MS and
KENNETH P. HERMSEN, DDS, MS, Omaha
- TC 7** Investigation of endodontic preclinic
instruction
JOSE LUIS MEMBRILLO, DDS, MSD, Mexico
City
- TC 8** Lateral plastifiers: a new mechanical spreader
for the plastification of gutta-percha during
lateral condensation
JOHN T. McSPADDEN, DDS, Chattanooga,
TN
- TC 9** Uses and abuses of the Gates Glidden Drill
JERRY F. TAINTOR, DDS, MS, Sherman Oaks,
CA and
ROBERT C. BIESTERFELD, DDS, MS, Brooklyn
Center, MN

GRADUATE STUDENT SECTION

- TC 10** Computer reproduction and analysis of
radiographs
MICHAEL J. BARKAN, DMD, Albert Einstein
Medical Center
- TC 11** Nasal apical communication associated with a
pulpless tooth
JOSH H. BRICKMAN, DMD, University of
Medicine & Dentistry of New Jersey
- TC 12** The retrograde filling—does a dry field really
matter?
RANDALL R. CALVERT, DDS and
JEROME K. YAMADA, DDS, Northwestern
University

- TC 13** Use of calcium hydroxide in endodontic
treatment
YONG P. CHA, DMD, University of
Connecticut
- TC 14** Thermoplasticized gutta percha delivery
systems
JOSE F. COSTAS, DMD and
MICHAEL L. SQUITIERI, DDS, Marquette
University
- TC 15** Eucapercha: preparation and use
MARK S. DeNUNZIO, DDS, Naval Dental
School
- TC 16** The advantages of the cavi-endo in the
removal of broken files, posts, and silver
points from the root canal system using
chelating agents
HESHAM EL-TAGOURI, BDS and
MARIO CZONSTKOWSKY, DDS, MDS,
University of Pittsburgh
- TC 17** Innovative endodontic radiography
STEPHEN B. HAAS, DDS, Naval Dental
School
- TC 18** Diagnosing cracked tooth syndrome
CHARLES E. JEROME, DDS, Naval Dental
School
- TC 19** Splinting of intentionally replanted teeth
KEVIN A. KEATING, DDS, Naval Dental
School
- TC 20** Veterinary endodontics
LAURENCE W. KIELT, DDS and
DALE C. GULLICKSON, DDS, Wilford Hall
Medical Center
- TC 21** Fabrication of a disposable CO₂ pencil
JAN M. LaCOMBE, DMD, Naval Dental
School
- TC 22** Calcium hydroxide placement techniques
PAUL A. LINDAUER, DDS, Naval Dental
School
- TC 23** Rubber dam isolation for retrograde obturation
HAO-HSING LIU, BDS and
SOMCHAI LIMSOBUTANON, DDS,
Northwestern University
- TC 24** Calcium hydroxide root canal sealers
RONALD C. MARKARIAN, DMD,
Northwestern University
- TC 25** The initial leakage of two thermoplasticized
gutta percha injection techniques
GLENN R. POULESON, DMD and
JESS T. ELLIS, DDS, Northwestern University
- TC 26** Endo-perio lesions: diagnosis and treatment
MARTHA E. PROCTOR, DDS and
TERRENCE M. TOLWIN, DDS, Northwestern
University



PROGRAM (continued)



SATURDAY AFTERNOON, MAY 2

12 Noon- **EDGAR D. COOLIDGE LUNCHEON**
2:00 pm (By ticket only—for members and spouses)
North Banquet Hall

Presentation of Coolidge Award.

Dr. Robert Lindberg, a television and radio personality, a distinguished university professor and a practicing psychologist will discuss: "Marriage: magic or madness?"

2:30 pm- **GENERAL ASSEMBLY MEETING**
5:00 pm Mission Room

6:30 pm- **PAST PRESIDENTS' RECEPTION**
7:30 pm Gallery

7:30 pm- **DINNER DANCE**
Midnight (By ticket only)
Entertainment: Compañia de Arte Español
North Banquet Hall



SUNDAY, MAY 3

All functions on Sunday will be held at the **Hyatt Regency Hotel**.

8:00 am- **CONTINENTAL BREAKFAST**
8:45 am (By ticket only)
Regency Ballroom West

8:00 am- **AAE BOARD OF DIRECTORS MEETING**
2:00 pm Rio Grande Ballroom East

SCIENTIFIC SESSIONS XI & XII

Regency Ballroom East #1
Moderator: JOHN B. HOLCOMB, DDS,
Richmond, VA

9:00 am- Vertical crown-root fractures in posterior teeth
10:30 am RAYMOND G. LUEBKE, DDS, MSD, New Orleans, LA

As a result of the growing interest in and study of vertical crown-root fractures, diagnostic methods have become quite standardized and dependable. Treatment as yet has not been as clearly defined, but many techniques have shown substantial clinical success.

10:30 am- Glass ionomers in endodontic practice
12 Noon GEORGE G. STEWART, DDS, Philadelphia

Regular ionomers, reinforced ionomers, and modified ionomers will be considered. Their use in preparation of the crown prior to therapy, prevention and repair of the crown and/or root fractures, and in obturation, will be discussed. These new modified ionomers may become our next generation of root canal sealers.

GENERAL INTEREST SESSION V

Regency Ballroom East #3
Moderator: JOEL B. ALEXANDER, DDS, San Antonio, TX

9:00 am- Managing the mismanaged patient
12 Noon JUSTIN E. AURBACH, DDS, Dallas, TX

An overview of doctor-patient-endodontist relationships in cases involving endodontic complications, failure to refer and misdiagnosis. Some management techniques and suggestions to avoid legal entanglement.

WILLIAM B. JOHNSON, DDS, Tulsa, OK

This presentation will explore modalities of treating mutilated cases; effective communication versus confusion, conflict and confrontation; the endodontist's real role, and successfully informing and treating the mismanaged patient while maintaining a working relationship with the offending dentist.



FUTURE ANNUAL SESSION SCHEDULE

- 45th Annual Session
April 20-24, 1988, Anaheim, CA
- 46th Annual Session
May 3-7, 1989, New Orleans, LA
- 47th Annual Session
April 25-29, 1990, Las Vegas, NV

ALUMNI, AFFILIATES & OTHER GROUPS

Thursday, April 30

Room

International Federation of Endodontic Associations 10:30 am-12 noon	Convention Ctr/Fiesta E
Army Association of Endodontists 1:00 pm-2:00 pm	Convention Ctr/110
AADS Endodontic Section Meeting 4:30 pm-5:30 pm	Convention Ctr/102
Christian Endodontic Society 5:00 pm-6:00 pm	Hilton/La Duquesa
Pennsylvania Academy of Endodontists 5:00 pm-6:00 pm	Hilton/La Reina
Tufts University Endodontic Alumni 6:30 pm-8:30 pm	Hilton/Imperial Suite
Northwestern University Alumni Association 6:00 pm-8:00 pm	Hyatt/Garden Terrace
University of North Carolina Alumni 6:00 pm-8:00 pm	Hyatt/Frio
Army Association of Endodontists Dinner 6:30 pm-10:00 pm	Hyatt/Rio Grande Ballroom East
University of Washington Alumni Reception 6:30 pm-8:30 pm	Hyatt/Rio Grande Ballroom Ctr

Friday, May 1

Harry J. Healy Endodontic Study Club 7:30 am-9:00 am	Hilton/La Reina
University of Michigan Alumni Association 7:30 am-9:00 am	Hilton/La Vista
Iowa Endodontic Reception 6:00 pm-8:00 pm	Hilton/La Reina
University of Nebraska Alumni 6:00 pm-8:00 pm	Hilton/La Princesa
Michigan Association of Endodontists 6:30 pm-8:00 pm	Hilton/La Vista
Oklahoma Association of Endodontists 7:30 am-9:00 am	Hyatt/Guadalupe
Florida Association of Endodontists 5:00 pm-6:00 pm	Hyatt/Pecos
University of Texas Dental Branch-Houston 5:30 pm-7:00 pm	Hyatt/Llano
Boston University Endodontic Alumni 6:30 pm-10:30 pm	Hyatt/Regency Ballroom East
Marquette University Alumni 7:00 pm-10:00 pm	Hyatt/Medina
Temple University Endodontology Alumni 7:30 pm-9:00 pm	Hyatt/Nueces

Saturday, May 2

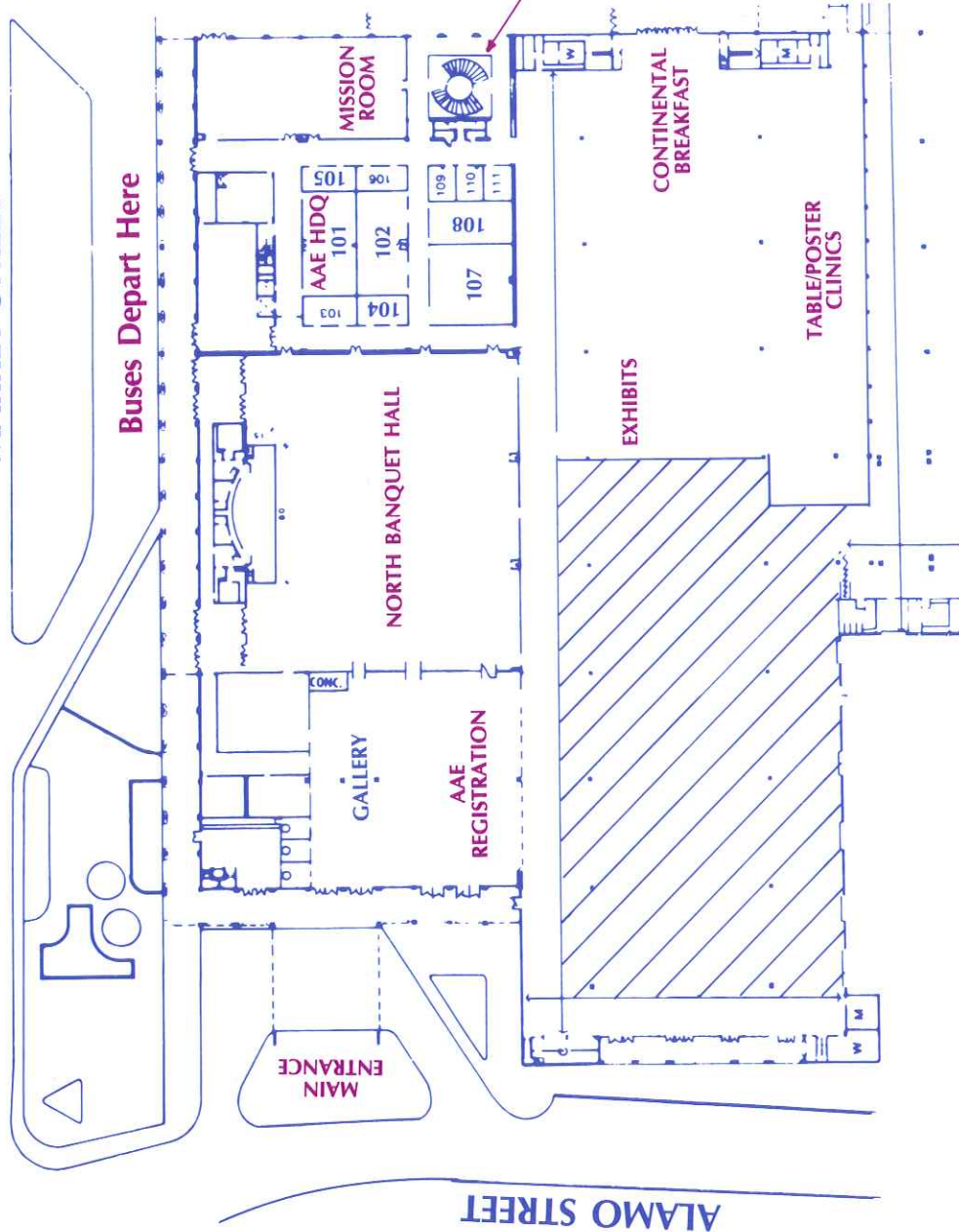
Past Presidents' Breakfast 7:30 am-9:00 am	Hyatt/Guadalupe
Boston University Endodontic Alumni 7:30 am-9:00 am	Hyatt/Regency Ballroom East #1
Navy Association of Endodontists 7:30 am-9:00 am	Hyatt/Rio Grande Ballroom East
Air Force Association of Endodontists 7:00 am-9:00 am	Hilton/La Reina

AAE COMMITTEE MEETINGS

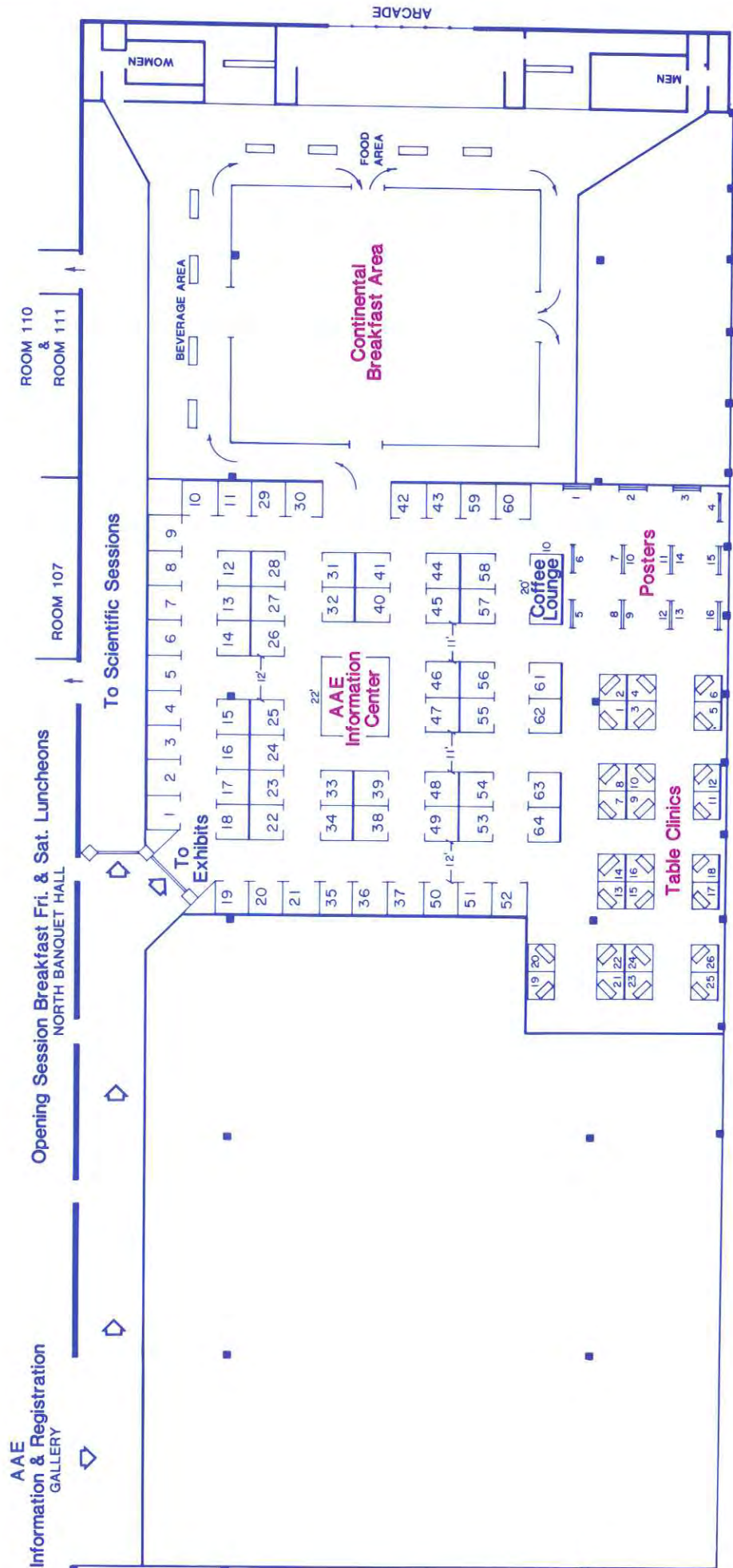
Tuesday, April 28, 8:00 pm-10:30 pm	Room
Dental Care and Clinical Practice	Hyatt/Nueces
Thursday, April 30, 12:30 pm-1:45 pm	
Education	Hyatt/Nueces
Honors and Awards	Hyatt/Llano
Public and Professional Affairs	Convention Ctr/106
Friday, May 1, 7:30 am-9:00 am	
Editorial Board	Hyatt/Pecos
Federal Dental Health Services	Hyatt/Frio
Member Services	Hyatt/Nueces
Membership	Hyatt/Llano
Research	Hyatt/Medina
Student Members	Hyatt/Rio Grande Ballroom East
Saturday, May 2, 7:30 am-9:00 am	
Professional Standards, Peer Review and Ethics	Hyatt/Frio

SAN ANTONIO CONVENTION CENTER

MARKET STREET



STREET LEVEL and RIVER LEVEL



**EXHIBITS, TABLE/POSTER CLINICS,
CONTINENTAL BREAKFAST**



SAN ANTONIO ★ SAN ANTONIO ★ SAN ANTONIO ★ SAN ANTONIO ★ SAN ANTONIO ★ SAN ANTONIO ★

TECHNICAL EXHIBITS

ADA Products, Inc. (Booth #12)
105 Academy Street
Jersey City, NJ 07302

Amadent/American Medical
& Dental Corp. (Booth #18)
P.O. Box 733
Cherry Hill, NJ 08003

Analytic Technology Corp. (Booth #34)
3301 - 181st Place N.E.
Redmond, WA 98052

Archer & White Sales (Booth #50)
610 South Sherman, Suite 118
Richardson, TX 75081

Astra Pharmaceutical Products, Inc. (Booth #27)
50 Otis Street
Westboro, MA 01581

Becker-Parkin Dental Supply (Booths #55-56)
245 - 7th Avenue
New York, NY 10001

Block Drug Co., Inc. (Booth #13)
105 Academy Street
Jersey City, NJ 07302

Brasseler USA Inc. (Booth #6)
800 King George Blvd.
Savannah, GA 31419

C&S Microinstruments Ltd. (Booth #37)
110 Riviera Drive, Suite 7
Markham, ON, Canada L3R 5M1

The L.D. Caulk Co. (Booths #19-20-21)
P.O. Box 359
Milford, DE 19963

R. Chige Inc. (Booth #15)
475 W. Merrick Road
Valley Stream, NY 11580

Columbus Dental (Booth #61)
1000 Chouteau Avenue, P.O. Box 620
St. Louis, MO 63188

Crawford Film Holder Co. (Booth #35)
3909 Hulen Street, Suite 201
Ft. Worth, TX 76107

Dent-X (Booth #51)
250 Clearbrook Road
Elmsford, NY 10523

Designs for Vision, Inc. (Booth #57)
760 Koehler Avenue
Ronkonkoma, NY 11779

Dunvale Corp. (Booth #47)
141 Union Street
Gilberts, IL 60136

Eagle Dental Inc. (Booth #41)
100 Chetwynd Drive
P.O. Box 1397
Bryn Mawr, PA 19010

Ellman International Mfg. Inc. (Booth #29)
1135 Railroad Avenue
Hewlett, NY 11567

Encyclopaedia Britannica USA (Booth #38)
310 South Michigan Avenue
Chicago, IL 60604

Endo Technic Corp. (Booth #7)
11 John Street
Newton, MA 02159

The Endodontic Report (Booth #36)
10921 Wilshire Blvd., Suite 807
Los Angeles, CA 90024

Essential Dental Systems (Booth #4)
7 West 36th Street
New York, NY 10018

Healthco International Inc. (Booth #22)
25 Stuart Street
Boston, MA 02116

Hi-Tech Co. (Booth #11)
2315 East Street
Bakersfield, CA 93301

Hu-Friedy Mfg. Co., Inc. (Booth #40)
3232 North Rockwell
Chicago, IL 60618

Hygenic Corp. (Booths #1-2)
1245 Home Avenue
Akron, OH 44310

JS Dental Mfg. Inc. (Booth #24)
P.O. Box 904
Ridgefield, CT 06877

Kerr Mfg. Co. (Booth #33)
28200 Wick Road
Romulus, MI 48174

Knoll Pharmaceuticals (Booth #58)
30 North Jefferson Road
Whippany, NJ 07981

Legg Mason Wood Walker, Inc. (Booth #9)
Members, New York Stock Exchange
7 East Redwood Street
Baltimore, MD 21202

M&D International Enterprises, Inc. (Booth #23)
517 Maple Avenue/P.O. Box 1294
Carpinteria, CA 93013

Mada Equipment Co. (Booth #14)
60 Commerce Road
Carlstadt, NJ 07072

Medidenta International Inc. (Booth #26)
39-23 - 62nd Street, P.O.B. 409
Woodside, NY 11377

Microcopy (Booth #32)
3120A Moon Station Road/P.O. Box 3047
Kennesaw, GA 30144

C.V. Mosby (Booth #8)
11830 Westline Industrial Drive
St. Louis, MO 63146

Nephron Corp. Dental Division (Booth #39)
3319 Pacific Avenue
Tacoma, WA 98408

North Pacific Dental/Aseptico (Booth #63)
P.O. Box 3209
Kirkland, WA 98083

O'Ryan Industries, Inc. (Booth #62)
9400-A N.E. 130th Avenue
Vancouver, WA 98662

Ortho Management Systems (Booth #5)
5555 Oakbrook Parkway #110
Norcross, GA 30093

Osada Electric Co., Inc. (Booth #54)
8242 West Third Street, Suite 150
Los Angeles, CA 90048

Premier Dental Products Co. (Booth #25)
1710 Romano Drive, Box 111
Norristown, PA 19404

Pulpdent Corp. of America (Booth #31)
75 Boylston Street
Brookline, MA 02147

Quality Aspirators (Booth #17)
1002 Dove Creek
Duncanville, TX 75116

Quintessence Publishing Co., Inc. (Booth #53)
870 Oak Creek Drive
Lombard, IL 60148

Roydent Dental Products Inc. (Booth #46)
5576 Cheltenham
Troy, MI 48098

Sandoz Pharmaceuticals (Booth #16)
59 Route 10
East Hanover, NJ 07936

Charles B. Schwed Co., Inc. (Booth #10)
138 Audley Street
Kew Gardens, NY 11418

The Tamiko Corp. (Booth #64)
15020 Delano Street
Van Nuys, CA 91411

Treloar and Heisel Inc. (Registration Area)
3132 Wilmington Road
New Castle, PA 16105

Union Broach/A Health-Chem Company
(Booths #48-49)
1107 Broadway
New York, NY 10010

Whaledent International (Booth #28)
236 Fifth Avenue
New York, NY 10001

Whitehall Laboratories (Booth #3)
685 Third Avenue
New York, NY 10017

Xerox Medical Systems (Booth #30)
125 North Vinedo Avenue
Pasadena, CA 91107

Non-Technical Exhibits

American Audio Association (Registration Area)
307 Willis Avenue
Mineola, NY 11501

Dental Volunteers for Israel (Booth #44)
120 West 86th Street
New York, NY 10024

AAE Career Counseling (Booth #43)

AAE Endowment & Memorial Foundation
(Booth #42)

1988 Annual Session (Booth #45)

AAE AUXILIARY

The AAE Auxiliary will maintain a hospitality suite in Room 105 for all registered spouses as follows:

April 30, May 1 — 1:00-4:00 pm
May 2 — 8-11:00 am & 1:00-4:00 pm

OFFICERS

Mrs. Richard H. Yamanaka (Sharlene) President/Treas.
Mrs. Carl Tinkelman (Sydney) President-elect
Mrs. Victor L. Ratkus (Anne) Vice-president
Mrs. William Leibow (Susan) Secretary
Mrs. Howard Pranikoff (Cheryl) Parliamentarian

In celebration of the 30th anniversary of the Auxiliary, a "Get Acquainted" continental breakfast is being complimented by the AAE on Thursday, April 30, 8:30 am, River A Room, immediately preceding the slide/lecture on *Bienvenidos! What to buy and where to find it!*

WEDNESDAY, APRIL 29

3:30 pm- PRESIDENT'S WELCOME/WINE RECEPTION
5:00 pm Fiesta A Room

THURSDAY, APRIL 30

7:30 am- BOARD MEETING
8:45 am Room 106

8:30 am- Get Acquainted Continental Breakfast
9:00 am River A Room

9:00 am- Bienvenidos! What to buy and where to
10:00 am find it!
River A Room

FRIDAY, MAY 1

9:00 am- BREAKFAST
11:15 am Fiesta E Room

Louise Michelson, a humorist, will address the subject of monogamy in a presentation entitled "O' promise me — monogamy."

11:30 am- BOARD MEETING
12:30 pm Room 106

TOURS

Buses for the following tours will depart from the Market Street entrance of the San Antonio Convention Center. Admission is by ticket only.

THURSDAY, APRIL 30

10:00 am- Viva the Alamo City
2:00 pm

FRIDAY, MAY 1

1:00 pm- Another Look at the Alamo City!
4:00 pm
9:00 am- LBJ Ranch and Fredericksburg
5:00 pm

DIRECTORS

AMERICAN BOARD OF ENDODONTICS

1987

Stephen Cohen
John W. Harrison, President
Alvin A. Krakow

1988

William H. Clem
F. James Marshall
Edward M. Osetek, Secretary-Treasurer

1989

Carlos E. del Rio
Garth A. James
Robert Zelikow

TRUSTEES

AAE ENDOWMENT and MEMORIAL FOUNDATION

1987

Allan H. Cetron
Joel L. Dunsky, Vice-president
James L. Gutmann, President
Joseph M. Leavitt

1988

Joel B. Alexander
Douglas C. Boyd
John B. Holcomb
Marshall D. Peikoff, Secretary-Treasurer

1989

Raleigh R. Cummings
Paul D. Eleazer
Gregory C. Galland
Darrell W. Zenk

CASSETTE TAPES OF SCIENTIFIC SESSIONS

are available from American Audio Association in the Registration area.



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

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

Ralph F. Sommer Award

Calvin D. Torneck	'84
Alfred L. Frank	'85
Mahmoud Torabinejad	'86

*Deceased

HONORARY MEMBERS

Mary C. Crowley
 Louis I. Grossman
 Maynard K. Hine
 Oscar A. Maisto
 Maury Massler
 Harold R. Stanley
 Henry O. Trowbridge

PAST PRESIDENTS

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

*Deceased

SMOKING

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

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Thank you for attending the AAE's 44th Annual Session. We hope you found the meeting to be both rewarding and enjoyable. See you next year in Anaheim!



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