

A stylized graphic of the Golden Gate Bridge in red, set against a white background with a blue sky and white clouds. The letters 'AED' are overlaid in a large, blue, serif font across the center of the bridge's towers.

AED

San Francisco

1992 Annual Session
Bridge to Understanding

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American Association of Endodontists
49th Annual Session, May 6-10, 1992
San Francisco, California

President's Message

Welcome to San Francisco and the 49th Annual Session of the American Association of Endodontists. This unique and multi-cultured City by the Bay was recently named as the world's most popular city as a travel destination. Both the city and the meeting are yours to enjoy for the next few days in a manner which you will long remember. I am pleased that you are here to share this time with me and my family.

In keeping with the theme, "Bridge to Understanding," the leadership, expertise and experience of our General Chair, Chuck Cunningham, has resulted in an educational and social meeting which will be both stimulating and rewarding for the entire endodontic family. As you participate in John Olmsted's imaginative program, you will be presented with the latest information in the rapidly changing areas of lasers, diagnosis, instrumentation, obturation, surgical procedures, postoperative care and infection control. You will leave with a better understanding of what the future holds for these subjects in endodontic therapy.

The General Interest Sessions will focus on an understanding of the relationship between the endodontists, the general practitioner and the patient in addition to the latest information on practice management.

Ralph Bellizzi's Limited Attendance Seminars, Bob Steiman's Research Seminars and Poster

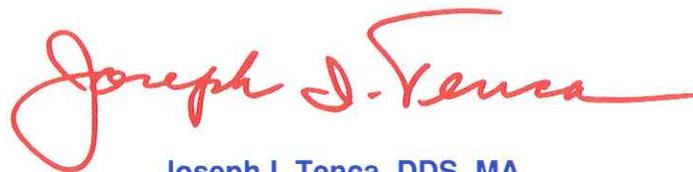
Presentations and Sam Oglesby's Table Clinics feature a variety of topics that will broaden your knowledge and improve your skills and technique.

Leif Bakland and his committee have arranged a continuing education course that will bring to you an understanding of the role of those dental disciplines closely aligned with endodontics.

On the lighter side, Bob Rosenberg and his Local Arrangements Committee and Auxiliary Liaison, Joan Goodis and Sharlene Yamanaka, have arranged diverse social events, cultural and sports activities and tours. Enjoy the fellowship of these programs. They will exhilarate and enrich your San Francisco experience.

Our outstanding Executive Director, Irma Kudo and her tireless, dynamic staff have again assured us of a successful meeting. They are true professionals and have earned our gratitude and respect, especially when it comes to attention to detail.

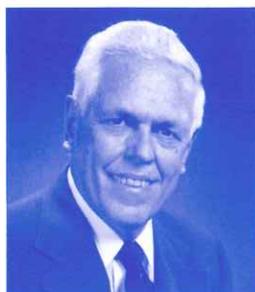
Our first West Coast Annual Session was in San Francisco twenty-six years ago. We have finally returned to this fascinating city with its five bridges crossing the bay. I personally wish all of you an inspiring and stimulating meeting and a memorable experience as together we cross the "Bridge to Understanding."



Joseph I. Tenca, DDS, MA
President

American Association of Endodontists

Officers, 1991-92



Joseph I Tenca
President



Stuart B. Fountain
President-elect



Eric J. Hovland
Vice-President



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Irma S. Kudo
Executive Director

Board of Directors

District I



John F. Patterson
1993



Joel L. Dunskey
1994

District IV



Jerome V. Pisano
1992



Carl W. Newton
1994

District II



Ronald I. Deblinger
1992



Howard B. Fine
1993

District V



James L. Gutmann
1992



Denis E. Simon, III
1993

District III

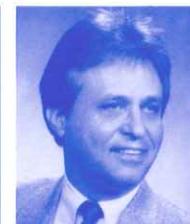


Donald D. Peters
1992



Paul D. Eleazer
1994

District VI



Steven G. Morrow
1993



Neil W. Bryant
1994

Annual Session Committee



Charles J. Cunningham
General Chair



John S. Olmsted
Program Chair



Robert J. Rosenberg
Local Committee Chair

PROGRAM

Continuing Education Leif K. Bakland
Limited Attendance Seminars Ralph Bellizzi
Research Seminars &
Poster Presentations H. Robert Steiman
Table Clinics Samuel W. Oglesby
Technical Exhibits Letty Catrambone

GENERAL ARRANGEMENTS

Audiovisual Bill Masheter
Hospitality Harold E. Goodis
Hosts Frank Casanova
Monitors Randolph D. Rush
Signs David W. Rising
Sports Richard Weinstein
AAE Auxiliary Chair Joan Goodis &
Sharlene S. Yamanaka

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 San Francisco Hilton on Hilton Square will be the Headquarters hotel for the 49th Annual Session.

AAE Headquarters - Monterey Room, 4th Floor

AAE Headquarters office will be staffed by Mary Bernhardt, Susan Burkhardt, Letty Catrambone, Laura Galusha, Del Martin and Tim McCann and members of the Annual Session Committee. Office hours are 8 am - 5 pm Tuesday through Sunday.

Exhibits - Grand Ballroom B

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, May 7	10 - 6 pm
Friday, May 8	8 - 5 pm
Saturday, May 9	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 East Lounge, Ballroom Level.

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.

Badges must be worn at all official AAE functions

Registration - East Lounge, Ballroom Level

Registration fees include the following:

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

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

Non-member professionals, student & dental auxiliaries — all sessions.

Spouses — Welcome/Fellowship Reception and use of the Auxiliary hospitality room.

Registration hours are:

Wednesday, May 6	11 - 8 pm
Thursday, May 7	8 - 5 pm
Friday, May 8	8 - 11 am

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. Each table seats ten persons. No exceptions will be made. **There will be a few tables reserved for singles** (or those without significant others).

Speaker AV Ready Room - Cypress Room, 4th floor

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.

Program - Wednesday, May 6

CONTINUING EDUCATION COURSE

Continental Ballroom (by ticket only)

Treatment interactions in endodontic practice

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

8:15 am Welcome

8:30 am

Adhesive concepts in the restoration of endodontically treated teeth

ALTON M. LACY, PhD, DDS, San Francisco, CA
(This portion will not be taped)

The focus will be on adhesive materials used for restoration of endodontically treated teeth. Special emphasis will be given to dentin-bonding systems, new post-core concepts and clinical uses of resin cements.

10:00 am Break

10:15 am

Single tooth implants

PHILIP BOYNE, DMD, MS, DSc, Loma Linda, CA

The use of single tooth implants (indications, contraindications and surgical techniques involved) will be presented. The bone implant interface reactions will be evaluated and discussed. The use of implants in compromised sites presenting with insufficient bone is possible with the use of peri-implant bone grafts and bone graft substitutes. The salvaging of implants by use of synthetic bone materials will also be presented.

11:30 am Lunch

12:30 pm

Criteria for the retention of periodontally compromised teeth

WILLIAM F. AMMONS, DDS, MSD, Seattle, WA

New therapeutic modes have made possible the repair/regeneration of lost periodontal attachment while also providing predictable means of replacing missing teeth with implants. Effective criteria for the retention of periodontally compromised teeth, with or without pulpal involvement, have become increasingly important during the formation of a comprehensive dental treatment plan.

1:45 pm Break

2:00 pm

Pulpal response to orthodontic tooth movement, tooth transplantation and orthognathic surgery
JON ARTUN, DDS, DrOdont, Seattle, WA

Discussion on endodontic implications of orthodontic tooth movement, with particular emphasis on tooth transplantation and management of traumatized teeth. Experience with laser doppler flowmetry for direct evaluation of tooth vitality in situations with lack of sensory nerve functions, such as after orthognathic surgery, will also be discussed.

3:00 pm

Management of the child patient

JOHN PETERSON, JR., DDS, MS, Loma Linda, CA

Several things are important to consider when providing dental care for children. One of the most important may be to prevent the child from developing a negative attitude about "going to the dentist". This presentation will offer a clinical perspective on the art and science of behavior management.

REGISTRATION

East Lounge, Ballroom Level

11 am - 8 pm

WELCOME/FELLOWSHIP RECEPTION

Continental Ballroom (by ticket only)

7 - 9 pm

Streets of San Francisco

This traditional kick-off to the AAE Annual Session will feature replicas of San Francisco's famous landmarks within the elegant setting of the Hilton's Continental Ballroom. Gourmet offerings representing the ethnic diversity of San Francisco, a mime and a five piece variety jazz band will accent this visual wonder, setting the tone for an evening of feast and celebration between friends, colleagues and families.



Program - Thursday a.m., May 7

OPENING SESSION BREAKFAST

Continental Ballroom 4-6 (by ticket only)

8 - 10 am

Keynote: JOSEPH I. TENCA, DDS, MA,
AAE President

Guest: GERALDINE T. MORROW, DMD,
ADA President

REGISTRATION

East Lounge, Ballroom Level

8 - 5 pm

EXHIBITS

Grand Ballroom B

10 - 6 pm

DISTRICT CAUCUSES

10 - 10:30 am

District I Continental Ballroom 1

District II Continental Ballroom 2

District III Continental Ballroom 3

District IV Continental Ballroom 7

District V Continental Ballroom 8

District VI Continental Ballroom 9

REFERENCE COMMITTEE HEARINGS

Yosemite A

10:30 - 11 am

SCIENTIFIC SESSION I

Grand Ballroom A

Moderator: JOHN S. OLMSTED, DDS

Greensboro, NC



11 - 12:30 pm

Lasers in dentistry and endodontics
TERRY D. MYERS*, DDS, Troy, MI

This lecture will explore the history of lasers. It will explain how laser energy is obtained, outline various laser uses and present the research that led to the development of the first laser designed for general dental use. The lecture will focus on current laser techniques. Slide examples are drawn from Dr. Myers' own eight-year involvement in Nd:YAG laser research and from a number of other dentists presently using the Nd:YAG laser.

RESEARCH SEMINARS I

Imperial Ballroom

Moderators: H. ROBERT STEIMAN, DDS

Detroit, MI

SAMUEL W. OGLESBY, DDS, MA

San Clemente, CA

11:00

Microbiological evaluation of thermafil obturators

GERALD N. GLICKMAN*, J. BUTLER & C. BERRY,

Baylor College of Dentistry

11:15

Retreatment of root canals filled with gutta-percha and glass ionomer cement

SHIMON FRIEDMAN*, J. MOSHONOV & M. TROPE,

Hebrew Univ & Temple Univ

11:30

Endodontic retreatment comparing laterally condensed gutta-percha & thermafil

NOBORU IMURA*, M. ZUOLO & D. KHERLAKIAN,

Univ of Sao Paulo

11:45

Retreatment efficacy 3 months after canal obturation using different sealers

JOSHUA MOSHONOV*, M. TROPE & S. FRIEDMAN,

Hebrew Univ & Temple Univ

12:00

Thermafil retreatment with and without chloroform solvent

LISA R. WILCOX*, Univ of Iowa

12:15

Use of a gallium alloy as a retrofilling material

ARMEN KUPELION*, R.A. BARKHORDAR, W.S. EAKLE

& L. G. WATANABE, Univ of California, San Francisco

* Presenter

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

NEED A BREAK?

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

Program - Thursday a.m., continued

LIMITED ATTENDANCE SEMINARS

Limited seating. NO standing permitted.

11 - 12:30 pm

LAS 1 - Continental Ballroom 1

Understanding the balanced force technique
EUGENE A. PANTERA, JR., DDS, MS, Buffalo, NY

This non-mechanical technique uses the clockwise and counter-clockwise rotation of endodontic files. Topics include rationale for rotation, instrument selection, technique, apical patency, creating the apical capture zone, and difficulties.

LAS 2 - Continental Ballroom 2

Dental pain — differential diagnosis
CECIL E. BROWN, JR., DDS, MS, Indianapolis, IN

Dental and facial pain is an integral part of endodontic practice. Diagnostic procedures of pain of endodontic origin will be discussed; classifications and diagnosis of facial pain will be explored.

LAS 3 - Continental Ballroom 3

Supplemental anesthetic techniques
JAMES S. TINKLE, DMD, Portland, OR

Profound anesthesia is required for management of patients reporting dental pain. A few of the available local anesthetic injections that can help provide this level of comfort will be discussed.

LAS 4 - Continental Ballroom 7

The maxillary sinus: its implication in conservative and surgical endodontic procedures
(This LAS will not be taped)

GERALD W. HARRINGTON, DDS, MSD, Seattle, WA
Radiographic observations of diagnostic value will be presented, including projection effect, sinus recesses, mucositis, periostitis, and mucous retention cysts. Clinical implications of these observations as they relate to diagnosis, conventional root canal therapy, and surgical approaches to the maxillary sinus will be discussed.

LAS 5 - Continental Ballroom 8

Ratner bone cavity: something to consider in your differential diagnosis for chronic pain.

KENNETH J. SPOLNIK, DDS, MSD, Indianapolis, IN

A recently discovered oral disease process of infectious origin is described. This disease process is characterized by non-radiographically detectable, hollow, pathologic, alveolar cavities of variable size. Diagnostic and treatment modalities are discussed. The relationship between these cavities and idiopathic chronic orofacial pain which can mimic endodontic symptoms is explored.

LAS 6 - Continental Ballroom 9

Endodontics and esthetics
JOHN D. WEST, DDS, MSD, Tacoma, WA
DAVID R. STEINER, DDS, MSD, Tacoma, WA

Discolored pulpless teeth are an esthetic challenge and prevention of adverse effects is a primary goal. Recent findings suggest resorption may be avoided using an adequate history and a properly positioned barrier.

RESERVE EARLY!

To reserve seats for the Dinner Dance on Saturday, vouchers must be exchanged for tickets no later than 5:00 pm Thursday. Parties wishing to sit together should return all vouchers at the same time. Your cooperation is greatly appreciated, as we cannot extend this deadline. Few tables are reserved for singles (or those without significant others).

Program - Thursday p.m., May 7

A.B.E. LOUIS I. GROSSMAN MEMORIAL LUNCHEON

Plaza Room (by ticket only)

12:30 - 1:45 pm

Moderator: ROBERT ZELIKOW, DDS
Highland Park, IL

Professionalism in the 1990s

CLIFTON O. DUMMETT, DDS, MPH, MScD,
Los Angeles, CA

SCIENTIFIC SESSION II

Continental Ballroom 4

Moderator: HENRY O. TROWBRIDGE, DDS, PhD
Philadelphia, PA

Lasers with Enamel, Dentin & Pulp



2 - 2:45 pm

*Laser interaction with enamel, dentin
and pulp*

JOEL WHITE, DDS, MS,
San Francisco, CA

Laser technology has been applied to dentistry for enamel etching, dentin modification and caries removal. The effects on the hard tissues will be discussed with emphasis on micro hardness, caries removal and bond strength. All these procedures directly or indirectly affect the pulpal tissue. A synopsis of the pulpal effects will be presented.



2:45 - 3:30 pm

*Lasers and the dental pulp: bane or
benefit*

SYNGCUK KIM, DDS, PhD,
Philadelphia, PA

The effects of CO₂ and Nd:YAG lasers on the structure and function of the dentin/pulp complex have been investigated using the laser doppler flowmeter for pulpal blood flow and intradental sensory nerve recording for measurement of pulpal nerve activity in feline preparation and SEM of the dentin surface following lasing. Results of this investigation revealed the utility as well as limitation of lasers in clinical dentistry.



3:30 - 4:15 pm

*Effect of Nd:YAG laser on organic
content and smear layer of root canal
systems*

HAROLD E. GOODIS, DDS,
San Francisco, CA

The use of the Nd:YAG laser will be examined in the preparation and alteration of the intracanal dentin walls of root canal systems. Its effect on the removal of organic tissue and smear layer, canal sterilization, and removal of accessory canal contents will be discussed.

SCIENTIFIC SESSION III

Continental Ballroom 6

Moderator: STEPHEN F. SCHWARTZ, DDS, MS
Houston, TX

What's New in Diagnostic Aids?



2 - 3 pm

Laser doppler pulp vitality testing
SANDRA MADISON, DDS, MS,
Chapel Hill, NC

A review of the aids currently used in the diagnosis of pulpal and periapical pathosis will be presented. Since most of our diagnostic tools rely on neural responsiveness, other mechanisms for determining pulp vitality will be discussed. This will include clinical and laboratory research findings evaluating the use of the laser doppler to determine pulpal blood flow and its potential application in endodontic diagnosis.



3 - 4 pm

*Endodontic applications for
digitization of x-rays*

STEPHEN COHEN, DDS,
San Francisco, CA

Imagine no more periapical films in endodontics! Imaging of x-rays on a high-definition TV screen with controls to lighten, darken, magnify and reverse shades of gray. Images appear within two seconds. Hard copy can be made in five seconds with improved radiation hygiene. Imagine no more darkrooms, no more chemicals, no more splatter and you've got the picture!

Program - Thursday p.m., continued

LIMITED ATTENDANCE SEMINARS

Limited seating. NO standing permitted.

2 - 3:30 pm

LAS 7 - Continental Ballroom 1

Mandibular molar surgery — a clinical approach

ROBERT J. LOUSHINE, DDS, Columbus, GA

This presentation focuses on the clinical step-by-step procedures necessary for predictable surgical results in the mandibular posterior region. Detailed clinical photos illustrate each step in a clear and concise manner.

LAS 8 - Continental Ballroom 2

(2 - 4:30 pm, by ticket only)

Media training workshop

GERALD C. DIETZ, SR., DDS, MS, Birmingham, MI

RUTH MUGALIAN, Public Comm. Inc., Chicago, IL

RICHARD C. BURNS, DDS, San Mateo, CA

KENNETH N. NAMEROW, DDS, Ridgewood, NJ

JOEL C. SMALL, DDS, Plano, TX

The objective of this seminar is to introduce more AAE members to the Association's public relations program and to prepare and encourage them to become more active in local media and community presentations. Introduction and delivery of the Association's public education messages will be addressed.

LAS 9 - Continental Ballroom 3

Comparison of Canal Master endodontic instrument and K-type files for the enlargement of curve Q root canals

JAMES A. GILLES, DDS, MS, San Antonio, TX

This presentation will cover the Canal Master endodontic instrument as studied in comparison with K-type files. Additional research will be addressed as well as the most current clinical evaluations from the University of Texas Dental School at San Antonio.

LAS 10 - Continental Ballroom 7

Extrusion of endodontically treated teeth

PATRICE PRIMACK, DMD, MS, Martinez, GA

Proper restoration of endodontically treated teeth is essential to the overall success of the case. A comprehensive understanding of the extrusion process by the endodontist is a valuable asset to achieving this goal. This discussion will include: indications, contraindications, techniques, phases of treatment, and a thorough review of the literature.

LAS 11 - Continental Ballroom 8

Endodontic treatment failures

LOUIS M. LIN, DMD, PhD, Newark, NJ

This presentation will discuss 236 cases of endodontic treatment failure on the basis of clinical, radiographic and histobacteriological findings, and also suggest the best regimen for retreatment.

LAS 12 - Continental Ballroom 9

Why not one-shot?

JEFFREY HOOVER, DMD, MS, Houston, TX

JOHN R. LUDINGTON, JR., DDS, MSD, Houston, TX

Realize improved patient receptivity and a boost to your practice! With emphasis on the biologic basis for one-appointment endodontic treatment, this seminar may dispel your reservations about "one-shots".

SCIENTIFIC SESSION IV

Grand Ballroom A

Moderator: JACOB B. FREEDLAND, DDS

Charlotte, NC

2 - 3:30 pm



Intentional replantation and transplantation

I. B. BENDER, DDS,
Elkins Park, PA

This presentation reports 33 cases of intentional replantation (IR), two of which are second deciduous molars with six recorded failures. The IR procedure is the choice treatment in lower second molars since conventional periradicular surgery with retroseal is more hazardous with a higher morbidity index and there is a lesser likelihood of root fracture than in the first molar. Three autologous transplantation cases with 3, 7 and 10-year follow-up will be presented.

SCIENTIFIC SESSION V

Grand Ballroom A

Moderator: CHAD M. READER, DDS

Denver, CO

3:30 - 5 pm



Bacteria busters: clinical infection control in endodontics

ROBERT E. AVERBACH, DDS,
Denver, CO

This presentation will detail practical approaches to office asepsis in clinical endodontics. Topics addressed include options in barrier techniques, instrument preparation, sterilization, storage and delivery, handpiece considerations and time-effective office protocols. Emphasis will be placed on specific recommendations and product analysis to update the practicing endodontist in infection control.

Program - Thursday p.m., continued

RESEARCH SEMINARS II

Imperial Ballroom

Moderators: MAHMOUD TORABINEJAD, DMD, MSD
Loma Linda, CA
ROBERT R. WHITE, DMD
Boston, MA

Graduate Student Section

2:00

Retention of the hypoxic cell marker, misonidazole, in dental pulp

KIRK R. BAUMGARDNER*, R.E. WALTON,
J.W. OSBORNE, & J.L. BORN,
Univ of Iowa & Univ of New Mexico

2:15

Regulation of release of CGRP-like immunoreactivity from bovine dental pulp

WALTER R. BOWLES* & K.M. HARGREAVES
Univ of Minnesota

2:30

The effect of drying time on periodontal ligament cell vitality

EDWARD D. GAMSON*, T.C. DUMSHA & R. SYDISKIS,
Univ of Maryland

2:45

Concentration of interleukin 1-B in symptomatic and asymptomatic human periradicular lesions

GERALD C. H. LIM*, M. TORABINEJAD, J. KETTERING,
T. LINKHART & R. FINKLEMAN,
Loma Linda Univ

3:00

Anti-inflammatory effects of dexamethasone on periapical tissues following endodontic overinstrumentation

WADE K. NOBUHARA*, D.L. CARNES, & J.A. GILLES,
Univ of Texas at San Antonio

3:15

Evaluation of prophylactic amoxicillin versus placebo on post-operative endodontic symptoms

LEIGH A. R. PICKENPAUGH*, A. READER,
W. MEYERS, R. NIST, M. BECK, & L. PETERSON,
Ohio State Univ

3:30

Antibacterial effects of various endodontic irrigants and medicaments on anaerobes

PATRICK K. OHARA*, M. TORABINEJAD, &
J.D. KETTERING, Loma Linda Univ

3:45

Immunohistochemical localization of gastrin-releasing peptide (GRP) and gamma-amino butyric acid (GABA) in pulp

WILLIAM M. TODD*, C.W. NEWTON, & C.E. BROWN,
Indiana Univ

4:00

Isolation and characterization of cystine-rich peptides from dental pulp

SHIZUKO YAMAUCHI*, A.J. BANES, & M. YAMAUCHI,
Univ of North Carolina

4:15

Vital tooth bleaching: histopathological examination of the human pulp

CRAIG J. TYLER* & J.A. WALLACE,
Case Western Reserve Univ

4:30

Evaluation of ultrasonic and sonic instruments for endodontic post removal

JOHN R. BUONCRISTIANI*, B.G. SETO &
A.A. CAPUTO, Univ of California, Los Angeles

4:45

Identification of human pulp for blood and lymphatic vessels using immunohistochemistry

T.L. GREEN*, J. BECKSTEAD, R.E. WALTON, &
R. WALTERS, Univ of Iowa

GENERAL INTEREST SESSION I

Continental Ballroom 5

Moderator: CHERYL PRANIKOFF
Ormond Beach, FL

2 - 4:30 pm



Frank Casanova



Gregory Imbach

Wine: the sensible beverage for all seasons
FRANK CASANOVA, DDS, MScD, Oakville, CA
GREGORY IMBACH, MS,
Robert Mondavi Winery, Oakville, CA

A slide presentation and lecture will be presented guiding the audience through the art of fine wine appreciation and selection. An instructional tasting will follow this presentation.

AADS SECTION MEETING

Continental Ballroom 7

4:30 - 5:30 pm

* Presenter

Program - Friday a.m., May 8

FUN RUN

6:15 - 8:30 am

The 5K Walk/Fun Run to start at Marina Green with the finish line at Fort Point below the Golden Gate Bridge.

CONTINENTAL BREAKFAST

Grand Ballroom A (by ticket only)

7:45 - 8:30 am

REGISTRATION

East Lounge, Ballroom Level

8 - 11 am

EXHIBITS

Grand Ballroom B

8 - 5 pm

LIMITED ATTENDANCE SEMINARS

Limited seating. NO standing permitted.

8:45 - 10:15 am

LAS 13 - Continental Ballroom 1

Root canal preparation using a patent apical foramen
RONALD W. ANDERSON, DDS, MS, Augusta, GA

The apical termination of canal cleaning and shaping procedures is frequently the subject of much debate. This seminar will discuss the advantages, disadvantages, biologic rationale, and clinical procedures for canal preparation that includes a patent apical foramen.

LAS 14 - Continental Ballroom 2

Hands-on workshop with dental laser
(Repeated as LAS 20. This LAS will not be taped.)
TERRY D. MYERS, DDS, Troy, MI

The purpose of this seminar is to introduce possible laser endodontic techniques in a wet lab environment. Both Nd:YAG and CO₂ lasers will be demonstrated and evaluated through slides and hands-on opportunities.

LAS 15 - Continental Ballroom 3

The role of coronal microleakage in endodontic failure
LISA R. WILCOX, DDS, MS, Iowa City, IA

Many etiologies for failures have been suggested. Coronal microleakage (or macroleakage) after RCT, may be as important as poor canal debridement or obturation, particularly in long-term failures.

LAS 16 - Continental Ballroom 7

Surgical considerations of the relationship of the sinus and mandibular canal to apices of posterior teeth
JAMES A. EBERHARDT, DDS, Indian Wells, CA
DALE DENIO, DDS, MS, San Diego, CA

An investigation by anatomical sectioning and C-T scan will be presented, showing the relationship of important anatomical structures, especially as they relate to surgical endodontics.

LAS 17 - Continental Ballroom 8

Sale or purchase of an endodontic practice, part I
PETER A. ALMONTE, JD, Providence, RI
BART F. CARR, MA, Lexington, MA

This program for dentists and their spouses will take them step-by-step on the road to selling or purchasing an endodontic practice. The presenter will discuss how to value a practice, how the purchase price can be made affordable from the earnings of the practice, how to negotiate the purchase agreement, what issues should be covered in the purchase agreement, how to minimize tax consequences, how to finance the purchase, how to handle the transition period, how to handle real estate issues.

LAS 18 - Continental Ballroom 9

Therapeutic uses of steroids in endodontics
J. GORDON MARSHALL, DMD, Portland, OR
ALAN W. LIESINGER, DMD, Sherwood, OR

The indications and contraindications for the use of systemic steroids in the treatment of endodontic pain will be presented. The discussion will include a review of the pharmacology of steroids as well as recent research in the field.

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

Badges must be worn at all official AAE functions

Program - Friday a.m., continued

SCIENTIFIC SESSION VI

Continental Ballroom 4

Moderator: RICHARD C. BURNS, DDS
San Mateo, CA

What's New in Surgical Endodontics?

9 - 10:30 am

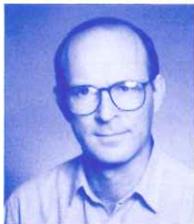


Surgical endodontics: understanding changing concepts

JOHN W. HARRISON, DMD, MS,
Dallas, TX

Research evidence has resulted in dramatic changes in many of the concepts previously applied to surgical endodontics. Clinical techniques based on the latest concepts will be addressed, with special emphasis on those resulting in more rapid wound healing and less postsurgical discomfort for the patient.

10:30 - 11:15 am



Use of lasers in apical surgery
SHIMON FRIEDMAN, DMD,
Jerusalem, Israel

Lasers offer theoretical advantages in apical surgery, including in situ sterilization, tissue ablation, hemostasis and dentinal tubule occlusion. Although used clinically in Europe for the past decade, the efficacy of lasers in apicoectomy is doubtful. This presentation will review the possible advantages and experimental results of laser use in apicoectomy.

11:15 - 12 n



Use of ultrasonics in apical surgery
GARY B. CARR*, DDS,
Chula Vista, CA

This presentation will review the principles of ultrasonic root end preparation emphasizing new surgical concepts that will radically change the way you perform surgery. An ultrasonic technique combined with a microsurgical approach will be demonstrated.

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

GENERAL INTEREST SESSION II

Continental Ballroom 5

Moderator: DONALD E. ARENS, DDS, MSD
Indianapolis, IN

9 - 12 n



Jack Silversin



Larry Chandler



Richard Rubinstein



Stuart B. Fountain



Kent Christiansen

Bridge to understanding: what do dentists think of you?

JACK SILVERSIN, DMD, Cambridge, MA

LARRY CHANDLER, Chicago, IL

RICHARD RUBINSTEIN, DDS, MS, Farmington Hills, MI

STUART B. FOUNTAIN, DDS, MSC, Greensboro, NC

KENT CHRISTIANSEN, DDS, Provo, UT

Key findings from the AAE-commissioned national study on the relationship between endodontists and general dentists will be presented. Practical solutions that individual endodontists can apply to enhance relationships with their referring dentists will be provided. A panel of AAE members will ask questions pertaining to the study and its implications. (This session will not be taped.)

NEED A BREAK?

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

Program - Friday a.m., continued

RESEARCH SEMINARS III

Imperial Ballroom

Moderators: ALFRED W. READER, DDS
Pataskala, OH
WILLIAM P. MAHER, DDS, MS
Troy, MI

Graduate Student Section

9:00

Lingual infiltration and combination IAN/infiltration in mandibular anterior anesthesia
KENNETH C. CLARK*, A. READER, W. MEYERS,
M. BECK & R. NIST, Ohio State Univ

9:15

A quantitative analysis of strain following post placement
SUSAN R. SHELDON*, & J.G. CAILLETEAU,
Univ of Texas at Houston

9:30

The validity of pulp vitality testing with the laser doppler
JAMES M. MUSSELWHITE*, Univ of North Carolina

9:45

Effects of experimental evoked pain on pulpal pain
ASGEIR SIGURDSSON* & W. MAIXNER,
Univ of North Carolina

10:00

Identification of psychosocial model as a predictor of flare-ups
ALAN S. LAW*, H.L. LOGAN, & R.E. WALTON,
Univ of Iowa

10:15

Effectiveness of apical clearing: histologic and morphologic evaluation
JOANNA L. PARRIS*, L. WILCOX, & R.E. WALTON,
Univ of Iowa

10:30

A comparison of the effectiveness of the conventional step-back technique with that of the passive step-back technique
JAMES A. EBERHARDT*, M. TORABINEJAD,
P. McMILLIAN & D. L. PETERS, Loma Linda Univ

10:45

Periradicular wound healing following the use of IRM as a root end filling material
SCOTT A. JOHNSON* & J.W. HARRISON,
Baylor College of Dentistry

11:00

Radicular and Periradicular wound healing following root-end filling with cermet glass-ionomer cement
EVAN N. MILLER* & J.W. HARRISON,
Baylor College Dentistry

11:15

Wear and cutting efficiency of sonic files
LEANDER LANIER*, J. HORNER, J.C. KULILD, &
R.J. MACKERT, US Army Dental Activity, Ft. Gordon, &
Medical College of Georgia

11:30

The effect of the smeared layer on tubular penetration by three filling techniques
STEPHEN M. LYON*, C. HERRING, M. GOLDMAN &
R. WHITE, Tufts Univ

11:45

In vitro comparison of bacterial and dye leakage of obturated root canals
SAMUEL B. SWITZER*, M. TROPE & J. MOSHONOV,
Temple Univ

SCIENTIFIC SESSION VII

Continental Ballroom 6

Moderator: EDWARD M. OSETEK, DDS
Chicago, IL

What's New in Instrumentation?



9 - 10:30 am

Accessing aids, rotary and hand devices

J.O. ROAHEN, DDS, MS,
Bethesda, MD

Successful root canal therapy is difficult to achieve without adequate access. Thorough instrumentation is a hallmark of competent endodontics. We will discuss the cornucopia of new devices on the marketplace involved with accessing, rotary and hand instrumentation, and will evaluate pros and cons based upon use in the Navy's residency program.



10:30 - 12 n

The sonic boom

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

As an adjunct to hand instrumentation, sonic and ultrasonic devices have become widely accepted in endodontics. While much research has been published regarding these devices, almost nothing has been written on the hazards associated with their clinical use. This program will integrate clinical techniques with the available research.

Program - Friday a.m./p.m.

LIMITED ATTENDANCE SEMINARS

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

LAS 19 - Continental Ballroom 1

Pus busters — I & D, trephination, and antibiotics
J. CRAIG BAUMGARTNER, DDS, PhD, Portland, OR

Treatment methods and rationale will be presented for the drainage of soft and hard tissues. In addition, methods for microbial sampling and a hierarchy of antibiotic therapy will be presented.

LAS 20 - Continental Ballroom 2

Hands-on workshop with dental laser
(Repeat of LAS 14. This LAS will not be taped)
TERRY D. MYERS*, DDS, Troy, MI

LAS 21 - Continental Ballroom 3

OSHA and you — happy together
FRANCIS E. SHOVLIN, DDS, MS, Newark, NJ

OSHA regulations change as quickly as the tide. This seminar will provide methodologies to simply and effectively satisfy the up-to-date regulations that govern infection control and right-to-know programs in an endodontic practice.

LAS 22 - Continental Ballroom 7

The management of large periapical lesions of endodontic origin
CARL W. NEWTON, DDS, MSD, Indianapolis, IN

The role of the endodontist in treatment planning and the surgical and non-surgical treatment of large periapical lesions of pulpal origin are discussed and illustrated with case reports.

LAS 23 - Continental Ballroom 8

Sale or purchase of an endodontic practice, part II
BART F. CARR, MA, Lexington, MA
PETER A. ALMONTE, JD, Providence, RI

Discussion on how to maximize the value of an endodontic practice at death, disability or retirement. The discussion will include seminar material, notebook, and case studies.

LAS 24 - Continental Ballroom 9

Furcal elevation
H. WAYNE MOHORN, DDS, MS, Greensboro, NC

Several treatments have been used to improve the periodontal problems of mandibular molars with furcation involvement. These molars that have been treated endodontically provide an opportunity to raise the roof of the furcation. This increases the access for cleaning and plaque removal. The techniques and procedures will be described.

* Presenter

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

FRIDAY PM, MAY 9

AWARD LUNCHEON

Grand Ballroom A
12 - 1:45 pm
Moderator: JOHN S. OLMSTED, DDS
Greensboro, NC



HENRY O. TROWBRIDGE, DDS, PhD

Recipient of the 1992 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.

Samuel Seltzer will be honored by the Research & Education Foundation of the AAE.

SCIENTIFIC SESSION VIII

Continental Ballroom 4
Moderator: GERALD C. DIETZ, SR., DDS
Birmingham, MI

2 - 5 pm



Richard Rubinstein



Gabriele Pecora

Endodontic microsurgery: an eye-opening adventure in microvideography

RICHARD RUBINSTEIN, DDS, MS, Farmington Hills, MI
GABRIELE PECORA, MD, DDS, Rome, Italy

The purpose of the program is to explore the evolution and current status of light amplification and magnification in endodontic surgery. The program will illustrate how the operating microscope is used during examination, operation of the root surface, and determination of appropriate retrofilling materials.

Program - Friday p.m., continued

LIMITED ATTENDANCE SEMINARS

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

LAS 25 - Continental Ballroom 1
The dilemma of perforations and resorption defects
JOHN G. FRASER, BDS, MDS, Vancouver, BC
Perforations and resorption defects compromise our ability to perform endodontic treatment and reduce success. This presentation will focus on diagnosis and treatment of these defects at all levels of single and multi-rooted teeth. Both non-surgical and surgical approaches will be presented.

LAS 26 - Continental Ballroom 2
Hands-on with super EBA and IRM Root End Fillings (This LAS will not be taped)
SAMUEL O. DORN, DDS, Ft. Lauderdale, FL
ARNOLD H. GARTNER, DDS, Southfield, MI
Many endodontists have been using reinforced zinc oxide-eugenol cements as the material of choice for root end fillings. The presentation will stress the practical aspects of using these materials. This hands-on workshop will allow the participant to use the materials and become familiar with the armamentarium needed for efficient placement of root end fillings.

LAS 27 - Continental Ballroom 3
Bridging legal issues: discovery, depositions and the data bank
THOMAS L. PEEK, DDS, MS, JD, Oklahoma City, OK
This seminar will present objectives that attorneys will try to achieve through discovery and focus on preparation for a deposition. Registration with the National Data Bank will also be discussed.

LAS 28 - Continental Ballroom 7
Lasers in endodontics
GUY C. LEVY⁺, MS, DDS, PhD, Austin, CA
ADAM STABHOLZ, DMD, Jerusalem, Israel
There is a real expectation for lasers to improve the endodontic procedures as different researchers have demonstrated. Effectively, lasers driven through a fiber optic are now performing apicoectomies and are enlarging root canals while closing the dentinal tubules. The presenters will discuss the possible use of these instruments in endodontics.

LAS 29 - Continental Ballroom 8
What's new in endodontics?
J. O. ROAHEN, DDS, MS, Bethesda, MD
An overview and evaluation of many of the various devices which have been added to the armamentarium of the endodontist in recent years.

LAS 30 - Continental Ballroom 9
Intentional replantation: a limited but viable treatment option
GARY R. HARTWELL, DDS, MS, Richmond, VA
The intentional replantation procedure has limited clinical indications but in selected circumstances it can be a viable treatment alternative. Criteria for case selection and clinical cases will illustrate treatment procedures.

RESEARCH SEMINARS IV

Imperial Ballroom
Moderators: DAVID L. PITTS, DDS, MSD
Seattle, WA
ROBERT A. AUGSBURGER, DDS, MSD
Fairfax, VA

2:00
Root resorption and repair following replantation and different endodontic treatment protocols
CEMIL YESILSOY^{*}, M. TROPE, L. KOREN, J. MOSHONOV & S. FRIEDMAN, Temple Univ

2:15
Replacement root resorption after replantation of extracted dog teeth stored in different media
MARTIN TROPE^{*}, C. YESILSOY, L. KOREN, J. MOSHONOV & S. FRIEDMAN, Temple Univ

2:30
Retrospective study of avulsed teeth stored in an optimum environment
PAUL R. KRASNER⁺, Temple Univ

2:45
Effects of systemic and topical nicotine on pulpal blood flow in dogs
WILLIAM T. JOHNSON^{*}, G.K. JOHNSON, G.L. TODD & Y.K. FUNG, Univ of Iowa & Univ of Nebraska

3:00
Histological examination of root canal treated teeth in cadaver specimens
JAY TAYLOR^{*}, T.L. GREEN, R.E. WALTON & P. MORRELL, Univ of Iowa & Univ of Pacific

3:15
Calcium hydroxide paste placement: water vs. glycerine as a medium
KEVIN R. WILLIAMS^{*} & E. RIVERA, Univ of Iowa

3:30
Histological examination of condensing osteitis
DAVE MAIXNER^{*}, T.L. GREEN, R.E. WALTON & A. LEIDER, Univ of Iowa & Univ of Pacific

Program - Friday p.m., continued

RESEARCH SEMINARS IV, cont'd

3:45

Pulpotomy versus incomplete pulpectomy as an endodontic emergency treatment
PETER VELVART* & U. SPOERRY, Univ of Zurich

4:00

The effective shelf-life of prepared sodium hypochlorite solutions
BRADFORD R. JOHNSON* & N.A. REMEIKIS, Univ of Illinois

4:15

Dimensions of root canal instruments are poorly standardized
LARZ SPANGBERG* & E. STENMAN, Univ of Connecticut & Univ of Umea

4:30

In vitro computer-supported enlarging of root canals
BENJAMIN M. BRISENO*, L. KREMERS & C. NITSCH, Univ of Munich

4:45

Effect of a final alcohol rinse on sealer coverage
ALFRED H. WIEMANN* & L.R. WILCOX, Univ of Iowa

GENERAL INTEREST SESSION III

Continental Ballroom 5

Moderator: SHEPARD S. GOLDSTEIN, DMD
Framingham, MA



2 - 5 pm

Keys to success with referral sources and patients
JACK SILVERSIN, DMD,
Cambridge, MA

The AAE study of the referral process suggests steps endodontists can take to strengthen these important relationships. This session builds on the morning presentation of the study results and focuses on specific relationship-building skills you can put into practice, strengthening your relationships with GPs and patients and enhancing your bottom line success. (This session will not be taped)

* Presenter

SCIENTIFIC SESSION IX

Continental Ballroom 6

Moderator: CINDY R. RAUSCHENBERGER, DDS, MS
Baltimore, MD

What's New in Post-ops?



2 - 3:30 pm

Management of endodontic emergencies: facts and fallacies
MAHMOUD TORABINEJAD, DMD,
MSD, Loma Linda, CA

Endodontic emergencies are induced as a result of pulpal and/or periapical inflammation and are associated with pain and/or swelling. Microbial, mechanical and chemical irritation of pulp or periapical tissues result in release of numerous potent biological substances. A basic knowledge of physiopathologic and psychological factors associated with endodontic emergencies is essential for every root canal therapist. Diagnosis, treatment and factors involved in endodontic emergencies prior, during, and after root canal therapy based on in vitro and clinical investigations will be discussed. In addition, the effect of various medications on postoperative pain following cleaning and shaping as well as obturation will be revealed.



3:30 - 5 pm

Microsurgical repair of nerve injuries
ROGER A. MEYER, MD, DDS, MS,
Marietta, GA

Injuries to peripheral branches of the trigeminal nerve occurring during endodontic treatment can produce distressing symptoms (pain, numbness) which do not always resolve spontaneously. Selected patients benefit from microsurgical repair of nerve injuries. Prevention, diagnosis, classification and successful microneurosurgery assist in the proper management of the nerve-injured patient.

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

Program - Saturday a.m., May 9

CONTINENTAL BREAKFAST

Grand Ballroom A (by ticket only)
7:45 - 8:30 am

EXHIBITS

Grand Ballroom B
8 - 12 n

POSTER CLINICS

Grand Ballroom B
8:30 - 11:30 am

- PC 1 SEM evaluation of smeared layer removal using doxycycline
RAHMAT A. BARKHORDAR, DMD,
San Francisco, CA
- PC 2 Surface changes in root canal morphology following Hol:YAG laser irradiation
SCOTT M. BRAM, DMD, Philadelphia, PA
- PC 3 Success of pre-replantation conditioning for avulsed teeth
PAUL A. KRASNER, DDS, Pottstown, PA
- PC 4 Clinical evaluation in electronic measuring root canal length using several devices
SHUJI MEZAWA, DDS, PhD, Tokyo, Japan
- PC 5 Changes in cell proliferative activity in tissue invading root canal
IKUO NISHIKAWA, DDS, PhD, Osaka, Japan
- PC 6 Modulation of PDGF induced human osteoblast migration by interleukin-1B.
JEROME H. STROUMZA, DDS, MS, DSc,
San Francisco, CA
- PC 7 Cytotoxicity of root canal sealers to human periodontal ligament fibroblasts
MING M. WANG, BDS, MS, Houston, TX
- PC 8 Healing of large periradicular lesions using bone allograft with a membrane technique
MARIO L. ZUOLO, CD, Sao Paulo, Brazil

Graduate Student Section

- PC 9 The fate of the odontoblasts following the extirpation of the pulp from human teeth
DEAN A. BURNETT, DDS, Northwestern Univ
- PC 10 Investigation into the use of chemicals to attenuate aerosoled herpes-simplex virus
ROBERT J. CEISEL, DDS, Northwestern Univ

- PC 11 Comparison of obturation techniques with SEM and dye penetration
DOMENIC DELLE DONNE, DDS,
Case Western Reserve Univ
- PC 12 Responses of osteoblastic and neuronal cells to elevated calcium
CRAIG S. HAGA, DDS, Northwestern Univ
- PC 13 Immunolocalization of cartilage macromolecules on in vitro dentin matrix induced chondrogenic nodules
BARZIN T. MASSARAT, DDS,
Northwestern Univ
- PC 14 Serotonin and craniofacial development
JULIAN R.D. MOISEWITSCH, BDS,
Univ of North Carolina
- PC 15 Antimicrobial effect of Ca(OH)₂ supplement with metronidazole and chlorhexidine as intracanal medicaments
BARTLEY T. QUILLIN, DDS, Univ of Maryland
- PC 16 Investigation of lymphatic vessels in the human dental pulp
MICHAEL J. RIBERA, DMD, Northwestern Univ
- PC 17 Dentin ablation by laser: energy vs. volume
BARRY H. STEVENS, DDS,
Albert Einstein Medical Center

TABLE CLINICS

Grand Ballroom B
8:30 - 11:30 am

- TC 1 Elimination of tetracycline discoloration by intentional endodontics and internal bleaching
JAMES Y.M. CHAU, DDS, MS, Okinawa, Japan
- TC 2 Useful classification and a new method of treatment of root perforations
ZVI FUSS, DMD, Tel Aviv, Israel
- TC 3 Intentional replantation: is it a part of your practice?
JAMES G. HUPP, DMD, Camp LeJeune, NC
- TC 4 Physical properties of the thermafil plastic carriers
DONALD A. MILLER, DDS, Glen Ellyn, IL
- TC 5 Local prophylactic Benedryl injections to reduce post-instrumentation pain
ALAN J. NEVINS, DDS, South Hampton, NY

Program - Saturday a.m., continued

Graduate Student Section

- TC 6 Treatment of avulsed teeth
JAMES C. ATEN, DDS,
IRENE C. CHANG, DDS, Northwestern Univ
- TC 7 Sonic placement of calcium hydroxide in narrow
canals
ROBERT E. BLUNDELL, DDS,
HEIDI L. MOOS, DMD, Naval Dental School
- TC 8 Bleaching of discolored teeth following calcitic
metamorphosis
JOHN C. CALHOUN, DMD,
MICHAEL E. GONZALES, DMD,
Naval Dental School
- TC 9 Perforation repair
MATTHEW K. DIETZ, DMD,
KAM CHAN, BDS, Northwestern Univ
- TC 10 A simplified approach to anaerobic/aerobic
culturing
ROBERT K. FRISK, DDS, Naval Dental School
- TC 11 Chemotherapeutic regimens for refractory
endodontic lesions
GLEN S. GERDES, DMD, Naval Dental School
- TC 12 Retreatment of thermafil cases
MIKE G. HALLAM, DMD,
SUSAN S. CLARKE, DMD, Northwestern Univ
- TC 13 Post removal
PETER J. KAPSIMALIS, DMD, New York Univ
- TC 14 The tooth preserving system for successful
replantation of avulsed teeth
JOSEPH N. LEGG, DMD, Temple Univ
- TC 15 PDL route to intraosseous anesthesia
MICHAEL C. MOCKNICK, DMD,
KAREN R. LIPPS, DMD, Univ of Maryland
- TC 16 Techniques for crown and bridge removal
DON H. PRATTEN, DMD, Univ of Maryland
- TC 17 Flap stabilization in surgical endodontics:
suture materials and techniques
STEPHANIE L. SNYDER, DMD,
Baylor College of Dentistry
- TC 18 Efficacy of calcium hydroxide delivery systems
DENISE R. STERN, DMD, New York Univ

- TC 19 Treatment of periapical lesions by aspiration and
irrigation
KENNETH C. WAY, DMD,
JEFFREY C. BAILEY, DDS, Univ of Maryland

SCIENTIFIC SESSION X

Continental Ballroom 4
Moderator: RONALD W. ANDERSON, DDS
Augusta, GA

Can We Stop the Leak?

9 - 10:30 am



*In vitro simulations of in vivo conditions
with dentin permeability and
microleakage*
DAVID H. PASHLEY, DMD, PhD,
Augusta, GA

Microleakage in vital teeth in vivo may be less than that measured in vitro because of the slow seepage of dentinal fluid from the pulp, out tubules to the surface of the tooth or cavity preparation. This movement tends to rinse away any exogenous molecules that attempt to diffuse into dentin. This hypothesis has recently been confirmed using simple in vitro model systems in the presence or absence of smear layers and pulpal pressures. The implications of this notion will be discussed.

10:30 - 12 n



Which is the best retrofil material?
EUGENE A. PANTERA, JR., DDS, MS
Buffalo, NY

Practitioners use retrofilling materials and techniques that have been selected because of a variety of reasons. These may include habit, mentor or colleague recommendation, research, and clinical experience. This presentation will offer a critical synopsis of studies reporting on research design, statistical analysis, material evaluation, and clinical techniques and results.

Program - Saturday a.m., continued

LIMITED ATTENDANCE SEMINARS

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

LAS 31 - Continental Ballroom 1

Retreatment in non-surgical and surgical endodontics
ARNALDO CASTELLUCCI, MD, DDS, Florence, Italy

When, why and how it is possible to retreat a case will be discussed with special emphasis on the treatment planning and on the solutions to problems encountered in the removal of paste, sealer, gutta-percha, silver cones and especially with the by-passing and removal of broken instruments.

LAS 32 - Continental Ballroom 2

Retreatment: your bread and butter or indigestion because of solid obstructions

NGUYEN T. NGUYEN, DDS, San Francisco, CA

The seminar will enhance the clinician's ability to remove obstructive solid materials from the root canal. A great variety of methods and innovative ideas will be presented for the safe and effective removal of insoluble cements, silver points, and posts for dowel and core build-up or for retreatment of the root canal system.

LAS 33 - Continental Ballroom 3

Management of dentistogenic perforations
ROBERT ZELIKOW, DDS, Highland Park, IL

Management of perforations which occur during access cavity preparation or root canal instrumentation present an interesting challenge to the endodontist. A discussion of treatment alternatives will be followed by clinical examples.

LAS 34 - Continental Ballroom 7

Creative management of aberrant canal systems
GERALD N. GLICKMAN, DDS, MS, MBA, Dallas, TX

This presentation will discuss different types of aberrant systems, including C's, S's, and those with resorptive defects, in which creative variations of non-surgical and surgical endodontics can be used for effective management. Clinical cases will be presented to highlight the various methodologies.

LAS 35 - Continental Ballroom 8

Treatment of traumatic injuries
WILLIAM T. JOHNSON, DDS, MS, Iowa City, IA

This seminar will review the diagnosis and treatment of traumatic injuries to the dentition. The biologic principles for treating crown fractures, root fractures, luxation injuries, and avulsions will be discussed utilizing a case presentation format.

LAS 36 - Continental Ballroom 9

Sonics in endodontics

KENNETH L. ZAKARIASEN, DDS, MS, PhD, Halifax, NS

Sonics and ultrasonics have been strongly advocated for use in root canal preparation. The presenter has selected one such system and developed an effective clinical technique which will be described in a step-by-step fashion.

SCIENTIFIC SESSION XI

Continental Ballroom 6

Moderator: EVA C. DAHL, DDS

La Crosse, WI

Solid Core Gutta-Percha Obturation System



9 - 10:15 am

The concept and clinical applications
WILLIAM BEN JOHNSON*, DDS,
Tulsa, OK

This presentation will explore the origin, use and abuse of solid core gutta-percha obturation system. Clinical situations and recent research will be discussed in detail and opened up for scrutiny.



10:15 - 11:30 am

Does this system meet the criteria?
RICHARD E. WALTON, DMD, MS,
Iowa City, IA

A material must fulfill numerous requirements to be suitable for obturation in a variety of situations. Many have been introduced without ultimate acceptance because of lack of versatility. A recently developed obturating system meets many of the desirable requirements. However, other properties may limit the usefulness of this system in a wide range of applications. Other aspects are as yet unknown and require investigation.

11:30 - 12 n Discussion

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

Program - Saturday a.m., continued

RESEARCH SEMINARS V

Imperial Ballroom

Moderators: JIM R. PATTEN, DMD, MS, PhD
El Paso, TX
DAVID S. AUGUST, DDS, MS
York, PA

9:00

Sealing of dentinal tubules by application of XeCl excimer laser
ADAM STABHOLZ*, A. STABHOLZ & M. TORABINEJAD, Hebrew Univ & Loma Linda Univ

9:15

In-vivo assessment of pulp inflammation utilizing dentinal fluid
CINDY R. RAUSCHENBERGER* & B. RICHARDSON, Univ of Maryland

9:30

Serum antibodies studies on patients with treatment resistant endodontic lesions
SEBASTIANO ANDREANA*, G. PECORA, M.G. BARBONI, R. MELEDANDRI, M. FABI, G. ANDREANA & E. DeNARDIN, SUNY at Buffalo, Univ Bologna & Univ of Rome

9:45

Effect of the smear layer and restorative methodology on microbial leakage of class V restorations in-vitro
MELVIN GOLDMAN*, S. PRASAD, L. WENDELL, N. ODABASHIAN & R. WHITE, Tufts Univ

10:00

Human saliva coronal leakage of unsealed endodontically treated teeth
SEUNG-JONG LEE*, A. KHAYAT, M. TORABINEJAD & J. KETTERING, Loma Linda Univ

10:15

Coronal dye penetration of apical fillings following post space preparation
MEHDI MONSEF*, S. RAVANSHAD & M. TORABINEJAD, Shiraz Univ & Loma Linda Univ

10:30

A pulpal and clinical evaluation of teeth with fixed prostheses
C. RUSSELL JACKSON*, A.E. SKIDMORE & R.T. RICE, West Virginia Univ

10:45

Site comparisons of dentin collagen cross-links in human teeth
ERIC M. RIVERA* & M. YAMAUCHI, Univ of Iowa

11:00

Incidence of interappointment emergency associated with endodontic therapy
CHAIM MOR*, I. ROTSTEIN, & S. FRIEDMAN, Hebrew Univ

11:15

Prognosis of bleaching discolored non-vital teeth with sodium perborate in vitro: a one year study
ILAN ROTSTEIN*, C. MOR, S. FRIEDMAN, Hebrew Univ

11:30

Tooth pulp space blood oxygenation change with dual wavelength spectrophotometry
RONI NISSAN*, M. TROPE, C. ZHANG & B. CHANCE, Temple Univ

11:45

Dimensional changes of endodontic sealers
KAMRAN SAFAVI*, R. KAZEMI & L. SPANGBERG, Univ of Connecticut

GENERAL INTEREST SESSION IV

Continental Ballroom 5

Moderator: KATHRYN A. JUROSKY, DDS
Manhattan Beach, CA



9 - 12 n

Practice management for the young and not-so-young endodontist
PHILIP D. WHITENER, DDS, MS,
Eagle, ID

To have the practice of the 90's that your patients and referring dentists expect and you deserve, it is imperative that strong emphasis be placed on the management of your practice. Topics to be discussed will include appointment scheduling, marketing, leadership, and finding and keeping personnel.

* Presenter

Program - Saturday p.m./Sunday, May 10

COOLIDGE LUNCHEON

Grand Ballroom A

12 - 2 pm

Moderator: CHARLES J. CUNNINGHAM, DDS,
Gainesville, FL



EDWARD M. OSETEK, DDS

Recipient of the 1992 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.

GENERAL ASSEMBLY

Imperial Ballroom A

2:30 - 5 pm

PAST PRESIDENTS' RECEPTION

Imperial Ballroom

6:30 - 7:30 pm

PRESIDENT'S GOLDEN GALA DINNER DANCE

Continental Ballroom (by ticket only)

7:30 - midnight

Elegance abounds at this traditional (black tie optional) evening gala. Join friends and colleagues for a fond farewell to the 1992 Annual Session as the gourmet foods and lively entertainment set the standards for elegance and enjoyment. A cash bar reception will precede the dinner.



SUNDAY, MAY 10

FAREWELL BREAKFAST BUFFET

Plaza Room (by ticket only)

8 - 8:45 am

SCIENTIFIC SESSION XII

Imperial Ballroom A

Moderator: STEVEN G. MORROW, DDS
Oakland, CA



9 - 10:30 am

Managing the obstructed root canal space: rationale and techniques
WILLIAM WAI-YICK GOON, DDS,
San Francisco, CA

Managing metallic obstructions in a root canal requires a thorough knowledge of and expertise in the scope of retrieval techniques. The goals of salvaging the root canal and ensuring the tooth's integrity require the selective execution of those techniques that will minimize operative hazards. This course reviews techniques and treatment approaches.

SCIENTIFIC SESSION XIII

Imperial Ballroom B

Moderator: KEVIN M. KEATING, DDS, MS
Sacramento, CA



9 - 10:30 am

The challenge of cleaning and shaping
SUNIL SRINIVASAN, BDS, MS,
San Francisco, CA

Cleaning and shaping are the most critical phases of endodontic treatment. The evolution of concepts and techniques in cleaning and shaping, and technical limitations, will be discussed, using preliminary results of some of our studies to illustrate these issues.

AAE Auxiliary

OFFICERS

Mrs. Cheryl Prankoff (Howard) President
Mrs. Elizabeth Collins (Joe) President-Elect
Mrs. Chizuko Shibuya (Arnold) Vice President
Mrs. Carol Belanger (Laurent) Secretary
Mrs. Sue Zenk (Darrell) Treasurer
Mrs. Aimee Simon (Denis) Parliamentarian
Mrs. Sharlene Yamanaka (Richard) &
Mrs. Joan Goodis (Harold) Local Arrangements

WEDNESDAY, MAY 6

President's Welcome Tea
Tower Room, 3 - 5 pm

THURSDAY, MAY 7

Board Meeting
Saratoga Room, 7 - 8:30 am

Hospitality Suite
Tower Room, 8 - 10 am & 3 - 4 pm

General Interest Session I
Continental Ballroom 5, 2 - 4:30 pm
Wine: the sensible beverage for all seasons
FRANK CASANOVA, DDS, MScD, Oakville, CA
GREGORY IMBACH, MS, Oakville, CA

FRIDAY, MAY 8

Hospitality Suite
Tower Room, 8 - 10 am & 3 - 5 pm

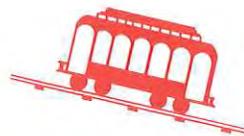
SATURDAY, MAY 9

Auxiliary Breakfast Meeting
Plaza Room, 8:30 - 11 am

Experiences as a POW in the Gulf War
MAJOR RHONDA L. CORNUM

An army physician who served with the military in the Gulf War, Major Cornum will speak about her experiences as a POW, her reactions about life in Saudi Arabia and her opinions regarding women in the military.

Board Meeting
Saratoga Room, 11 - 12 n



TOURS

Muir Woods & Sausalito
Without ferry, Wednesday, May 6 & Saturday, May 9,
1-5 pm.
With ferry, Thursday, May 7, 9:30 am-2:30 pm

San Francisco Highlights
Wednesday, May 6, & Friday, May 8, 1-5 pm
Thursday, May 7, 9 am-1 pm

Splendid Survivors
Thursday, May 7 & Friday, May 8, 1-5 pm

Alcatraz: "The Rock"
Thursday, May 7 & Saturday, May 9, 1-5 pm

Beach Blanket Babylon
Thursday, May 7, bus departs at 6:45 pm for 8:00
show.
Friday, May 8, bus departs 6:45 pm for 8:00
show & 9:40 pm for 10:30 show

The Best of Wine Country
Friday, May 8 & Saturday, May 9, 8:30 am-4:30 pm

Hilltop Walking Tour
Friday, May 8, 9 am-1 pm

"Dynasty" Mansion & Sunset Gardens
Friday, May 8, 9 am-5 pm

Sailing On The Bay
Saturday, May 9, 10 am-2 pm

Pre-registration tickets are to be picked up at the Tours registration desk in the AAE registration area. If tickets are available, tickets will be sold on-site. All tour maxi-vans or motorcoaches depart from the Taylor Street entrance of the Hilton.

Board & Committee Meetings

	Room
MONDAY, MAY 4	
ABE Board of Directors, 8 am-6 pm	Tamalpais
TUESDAY, MAY 5	
AAE Board of Directors, 8 am-5 pm	Imperial A
WEDNESDAY, MAY 6	
Honors and Awards, 2-5 pm	Teakwood B
Professional Standards, Peer Review & Ethics, 2-5 pm	Teakwood A
Public & Professional Affairs, 2-5 pm	Walnut A
R&E Foundation Trustees, 8 am-5 pm	Yosemite B
FRIDAY, MAY 8, 7:30-8:45 am	
Dental Care & Clinical Practice	Tiburon A
Editorial Board	Whitney
Educational Affairs	Tiburon B
Federal Dental Health Services	Diablo
Governmental Affairs	Tamalpais
International Relations	Belvedere A
Membership	Belvedere B
Member Services	Belmont
Research & Scientific Affairs	Sonoma
SATURDAY, MAY 9, 7:30-9 am	
Past Presidents' Breakfast	State Suite
SUNDAY, MAY 10	
AAE Board of Directors, 8 am - 5 pm	Yosemite B
ABE Board of Directors, 8 am - 5 pm	Marin

American Board of Endodontics

1992
Leif K. Bakland
Robert Zelikow, President
Louis E. Rossman

1994
M. Lamar Hicks, Sec/Treasurer
Sandra Madison
Samuel O. Dorn

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

Alumni, Affiliates & Other Groups

	Room
WEDNESDAY, MAY 6	
US Army Assn of Endo, 4:30-6 pm	Yosemite C
THURSDAY, MAY 7	
AAES Section Meeting, 4:30-5:30 pm	Cont Ballroom 7
Christian Endo Society, 5-6 pm	Belvedere A
Harvard Forsyth Alumni, 7-9 pm	Kuleto's
Int'l Fed of Endo Assn, 10 am-12 n	Yosemite C
Loma Linda Univ, 6:30-9 pm	Tiburon B
Michigan Assn of Endo, 6:30-8:30 pm	Sausalito A
Northwestern Alumni, 6:30-8 pm	Sonoma
Pennsylvania Academy of Endo, 5-5:45 pm	Belmont
Tar Heel Endo Assn, 5-6 pm	Tiburon A
Tufts Univ Alumni, 6:30-8 pm	Cont Ballroom 3
Univ of Connecticut Alumni, 6:30-8:30 pm	Belvedere B
Univ of Maryland Alumni, 6-7:30 pm	Marin
Univ of North Carolina Alumni, 6-7:30 pm	Tiburon A
Univ of Pennsylvania, 7-10 pm	Concordia-Argonaut
US Army Assn of Endo, 7-9 pm	Cont Ballroom 1-2
FRIDAY, MAY 8	
Baylor College Alumni, 6-9 pm	Sausalito A
Boston Univ Alumni, 7-10:30 pm	Harbor Village
Harry J. Healey Study Club, 7-8:45 am	Franciscan A
I.B. Bender Endowment, 7-8:30 am	Saratoga
Iowa Endo Group, 6-8 pm	Marin
Louisiana State Univ Alumni, 6-8 pm	Tiburon A
Marshall Oregon/Ohio Alumni, 5:30-7:30 pm	Tiburon B
MCV/VCU Endo Alumni, 6-8 pm	Belvedere A
New York Univ Alumni, 6-8 pm	Sonoma
Oklahoma Assn of Endo, 7-8:45 am	Marin
Temple Endo Alumni, 6-8 pm	Franciscan B
Univ of Southern California Alumni, 7:30-10 pm	Tower
Univ of Washington Alumni, 6:30-8:30 pm	Belmont
SATURDAY, MAY 9, 7-8:45 am	
Boston Univ Alumni	Sausalito
Univ of Michigan Alumni	Belvedere B
USAF Assn of Endo	Belmont
US Navy Assn of Endo	Tiburon

Research & Education Foundation of the AAE

1992
Harold E. Goodis, President
Peter A. Paesani
Carl L. Tinkelman

1994
Donald D. Antrim
Wallace B. Brown
Eva C. Dahl

1993
Harmon R. Katz
Robert J. Rosenberg, Pres-elect
Bruce H. Seidberg
Joel C. Small

1995
John W. Harrison
Syngcuk Kim
John W. Myers, Secy/Treasurer

Ex Officio: Alan G. Selbst

Exhibitors

Booth #		Booth #		Booth #		Booth #	
505	Ace Surgical Supply Co. 1034 Pearl St Brockton, MA 02403	401	Ellman Int'l Mfg. Inc. 1135 Railroad Ave Hewlett, NY 11557	512	Laser Endo Technic 981 Calle Amanecer San Clemente, CA 92672	502	Quintessence Publishing Co. 551 N. Kimberly Dr Carol Stream, IL 60188
417	Advanced Dental Concepts Inc. 7 N. Pinckney, Ste 305 Madison, WI 53703	205	Encyclopaedia Britannica North America 310 S. Michigan Ave Chicago, IL 60604	305	Medidenta Int'l Inc. 39-23 62nd St Woodside, NY 11377	201	R. Chige Inc. 475 W. Merrick Rd Valley Stream, NY 11580
406	Advanced Endodontic Concepts Inc. 7011 Shallowford Rd, #204 Chattanooga, TN 37421	403	Endoco Inc. 5180 Park Ave Memphis, TN 38119	217	Micro-Designs Software Corp. 704 Executive Blvd Valley Cottage, NY 10989	414	Realtime Systems 84 Terra Bella Dr Walnut Creek, CA 94596
202	Amadent P.O. Box 733 Cherry Hill, NJ 08003	304	Essential Dental Systems Inc. 89 Leuning St S. Hackensack, NJ 07606	408	Microcopy 3120 Moon Station Rd Kennesaw, GA 30144	508	Rinn Corp/Green Dental Prod. 1212 Abbott Dr Elgin, IL 60123
302	Analytic Technology Corp. 15233 NE 90th St Redmond, WA 98052	416	Excellence in Endodontics 11545 Sorrento Valley Rd, Ste 313 San Diego, CA 92121	117	Miles Dental Products 4315 S. Lafayette South Bend, IN 46614	314	Roydent Dental Prod. 6964 Crooks Rd Troy, MI 48098
317	Aseptic Inc. P.O. Box 3209 Kirkland, WA 98083	504	H. W. Anderson Products Inc. P. O. Box 1050 Chapel Hill, NC 27514	513	Mosby-Year Book 506 E. 39th Ave San Mateo, CA 94403	511	Tamiko Corp. 15020 Delano St Van Nuys, CA 91411
402	Astra Pharmaceutical Products Inc. 50 Otis St Westboro, MA 01581	313	Healthco Int'l 25 Stuart St Boston, MA 02116	102	Moyco/Union Broach 2054 W Clearfield St Philadelphia, PA 19132	218	Texceed Corp/Obtura II 3001 Redhill Ave, Bldg 4-104 Costa Mesa, CA 92626
116	Becker-Parkin Dental Supply Co Inc 50 W. 13th St, 8th fl New York, NY 10011	303	HealthFirst Corp. 22316 70th Ave W, Unit A Mountlake Terrace, WA 98043	506	National Dental Eng. & Mfg. P.O. Box 3709 Dallas, TX 75208	501	Thermafил/Tulsa Dental Prod. 5001 E. 68th St, #500 Tulsa, OK 74136
118		306	Hu-Friedy Mfg. Co. Inc. 3232 N. Rockwell St Chicago, IL 60618	413	Nephron Corp. - Dental 321 E. 25th St Tacoma, WA 98421		Treloar & Heisel Inc. P.O. Box 5168 3132 Wilmington Rd New Castle, PA 16105 (Registration Area)
106	Block Drug Co. 257 Cornelison Ave Jersey City, NJ 07302	101	Hygenic Corp. 1245 Home Ave Akron, OH 44310	415	OP-D-OP Inc. 198 Cirby Way, Ste 120 Roseville, CA 95678	503	Western Dental Specialties 3680 Charter Park Dr San Jose, CA 95136
211	Brasseler USA 800 King George Blvd Savannah, GA 31419	103		507	Osada Electric Co. Inc. 8242 W. Third St, #150 Los Angeles, CA 90048	405	Whitehall Laboratories 685 Third Ave New York, NY 10017
112	Caulk/Dentsply P. O. Box 359 Milford, DE 19963	316	JEDMED Instrument Co. 6096 Lemay Ferry Rd St. Louis, MO 63129	108	Premier/Espe-Premier 1710 Romano Dr Norrstown, PA 19401	115	Williams & Wilkins 428 E. Preston St Baltimore, MD 21202
114		318		216	Premier Laser Systems 3 Morgan Irvine, CA 92718		
207	Charles B. Schwed Co. Inc. 138 Audley St Kew Gardens, NY 11418	109	JS Dental Mfg. Inc. 196 N. Salem Rd Ridgefield, CT 06877	315	Professional Business Systems P.O. Box 49675 Austin, TX 78765	Non-Technical Exhibits	
107	Coltene/Whaledent 236 5th Ave New York, NY 10001	203	KComp 915 N. Glendale Ave Glendale, CA 91206	404	Professional Results-Tooth Slooth 29 Merano Laguna Niguel, CA 92677	AAE Career Counseling AAE Information Booth American Board of Endodontics Research & Education Foundation	
213	Cox Sterile Products Inc. 5115 McKinney, Ste C Dallas, TX 75205	111	Kelly Systems Inc. 6735 Telegraph Rd, Ste 205 Birmingham, MI 48010	204	Pulpdent Corp. 80 Oakland St Watertown, MA 02272	Teach'em Inc 160 E. Illinois St Chicago, IL 60611 (Registration Area)	
515	Darby Dental Supply 100 Banks Ave Rockville Centre, NY 11570	113		301	Quality Aspirators P.O. Box 382120 Duncanville, TX 75138		
517		206	Kerr Mfg. Co. 28200 Wick Rd Romulus, MI 48174				
412	Designs for Vision Inc. 760 Koehler Ave Ronkonkoma, NY 11779	105	Kilgore Int'l Inc. 36 W. Pearl St Coldwater, MI 49036				
215	Dunvale Corp. 141 Union St Gilberts, IL 60136	214	Knoll Pharmaceuticals 30 N. Jefferson Rd Whippany, NJ 07981				

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Past Presidents

* W. Clyde Davis	'43-44
* Ralph F. Sommer	'44-45
* Robert G. Kesel	'45-46
* E. G. Van Valey	'46-47
Maynard K. Hine	'47-48
* Louis I. Grossman	'48-49
* Elmer A. Jasper	'49-50
* Raymond L. Girardot	'50-51
* George G. Sharp	'51-52
* F. Darl Ostrander	'52-53
Laurence A. Lucas	'53-54
* N. Weir Burkman	'54-55
* Harry J. Healey	'55-56
John R. Pear	'56-57
* George C. Hare	'57-58
George G. Stewart	'58-59
* J. Henry Kaiser	'59-60
* Paul P. Sherwood	'60-61
* Glenn R. Brooks	'61-62
* Vincent B. Milas	'62-63
James H. Sherard, Jr.	'63-64
Jacob B. Freedland	'64-65
* Henry S. Schmidt	'65-66
John I. Ingle	'66-67
Edwin C. Van Valey	'67-68
Samuel S. Patterson	'68-69
Warren J. Hedman	'69-70
John F. Bucher	'70-71
Dudley H. Glick	'71-72
I.B. Bender	'72-73
Charles A. Scott, Jr.	'73-74
Alfred L. Frank	'74-75
Robert A. Uchin	'75-76
Frank B. Trice	'76-77
George A. Zurkow	'77-78
Harry Blechman	'78-79
Paul E. Zeigler	'79-80
Edward M. Osetek	'80-81
Henry J. Van Hassel	'81-82
Noah Chivian	'82-83
Donald E. Arens	'83-84
Stephen F. Schwartz	'84-85
Herbert Schilder	'85-86
Michael A. Heuer	'86-87
Charles J. Cunningham	'87-88
Joseph D. Maggio	'88-89
Gerald C. Dietz, Sr.	'89-90
James C. McGraw	'90-91

Award Recipients

EDGAR D. COOLIDGE AWARD

* Edgar D. Coolidge	'69
* Harry B. Johnston	'70
* Henry A. Bartels	'71
Bertram L. Wolfsohn	'74
* Vincent B. Milas	'75
Worth B. Gregory	'78
Jacob B. Freedland	'80
Alfred L. Frank	'81
George G. Stewart	'82
* F. Darl Ostrander	'83
Maynard K. Hine	'83
* George C. Hare	'84
* Irving J. Naidorf	'85
Harry Blechman	'86
I.B. Bender	'87
Dudley H. Glick	'88
Samuel S. Patterson	'89
Robert A. Uchin	'90
Michael A. Heuer	'91
Edward M. Osetek	'92

LOUIS I. GROSSMAN AWARD

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

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	'66
* Louis I. Grossman	'73
Maynard K. Hine	'69
Oscar A. Maisto	'79
* Maury Massler	'71
David H. Pashley	'92
Harold R. Stanley	'68
Henry O. Trowbridge	'86

*Deceased

Condensed Program

WEDNESDAY, MAY 6

8:30-4 pm CEC, Cont Brm 1-5
11:30-12:30 pm CEC Luncheon, Cont Brm 6-8
11-8 pm AAE Registration, East Lounge, Brm Level
7-9 pm Welcome/Fellowship Reception, Cont Brm

THURSDAY, MAY 7

8-10 am Opening Session Breakfast, Cont Brm 4-6
8-5 pm Registration, East Lounge, Brm Level
10-6 pm Exhibits, Grand Brm B
10-10:30 am Dist Caucuses I-III, Cont Brm 1-3
10-10:30 am Dist Caucuses IV-VI, Cont Brm 7-9
10:30-11 am Reference Comm Hearings, Yosemite A
11-12:30 pm Sci Session I, Grand Brm A
11-12:30 pm LAS 1-3, Cont Brm 1-3
11-12:30 pm LAS 4-6, Cont Brm 7-9
11-12:30 pm Res Seminars I, Imperial Brm
12:30-1:45 pm A.B.E. Grossman Luncheon, Plaza Room
2-3:30 pm LAS 7&9, Cont Brm 1&3
2-4:30 pm LAS 8, Cont Brm 2
2-3:30 pm LAS 10-12, Cont Brm 7-9
2-5 pm Res Seminars II, Imperial Brm
2-4:30 pm Gen Interest I, Cont Brm 5
2-4:30 pm Sci Session II, Cont Brm 4
2-4 pm Sci Session III, Cont Brm 6
2-3:30 pm Sci Session IV, Grand Brm A
3:30-5 pm Sci Session V, Grand Brm A
4:30-5:30 pm AADS Section Meeting, Cont Brm 7

FRIDAY, MAY 8

6:15-8:30 am Fun Run, Marina Green Park
7:45-8:30 am Cont'l Breakfast, Grand Brm A
8-11 am Registration, East Lounge, Brm Level
8-5 pm Exhibits, Grand Brm B
8:45-10:15 am LAS 13-15, Cont Brm 1-3

FRIDAY, MAY 8, continued

8:45-10:15 am LAS 16-18, Cont Brm 7-9
9-12 n Res Seminars III, Imperial Brm
9-12 n Gen Interest II, Cont Brm 5
9-12 n Sci Session VI, Cont Brm 4
9-12 n Sci Session VII, Cont Brm 6
10:30-12 n LAS 19-21, Cont Brm 1-3
10:30-12 n LAS 22-24, Cont Brm 7-9
12-1:45 pm Award Luncheon, Grand Brm A
2-5 pm Gen Interest III, Cont Brm 5
2-3:30 pm LAS 25-27, Cont Brm 1-3
2-3:30 pm LAS 28-30, Cont Brm 7-9
2-5 pm Res Seminars IV, Imperial Brm
2-5 pm Sci Session VIII, Cont Brm 4
2-5 pm Sci Session IX, Cont Brm 6

SATURDAY, MAY 9

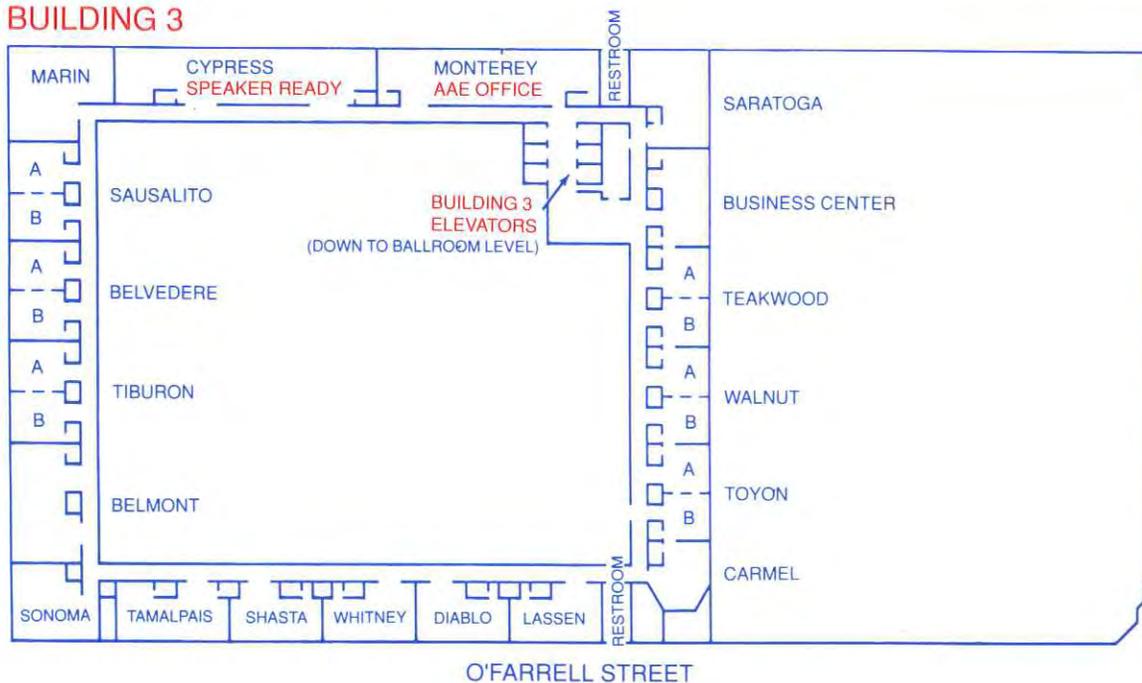
7:45-8:30 am Cont'l Breakfast, Grand Brm A
8-12 n Exhibits, Grand Brm B
8:30-11:30 am Poster/Table Clinics, Grand Brm B
8:45-10:15 am LAS 31-33, Cont Brm 1-3
8:45-10:15 am LAS 34-36, Cont Brm 7-9
9-12 n Res Seminars V, Imperial Brm
9-12 n Gen Interest IV, Cont Brm 5
9-12 n Sci Session X, Cont Brm 4
9-12 n Sci Session XI, Cont Brm 6
12-2 pm Coolidge Luncheon, Grand Brm A
2:30-5 pm General Assembly, Imperial Brm A
6:30-7:30 pm ... Past Presidents' Reception, Imperial Brm
7:30-midnight Dinner Dance, Cont Brm

SUNDAY, MAY 10

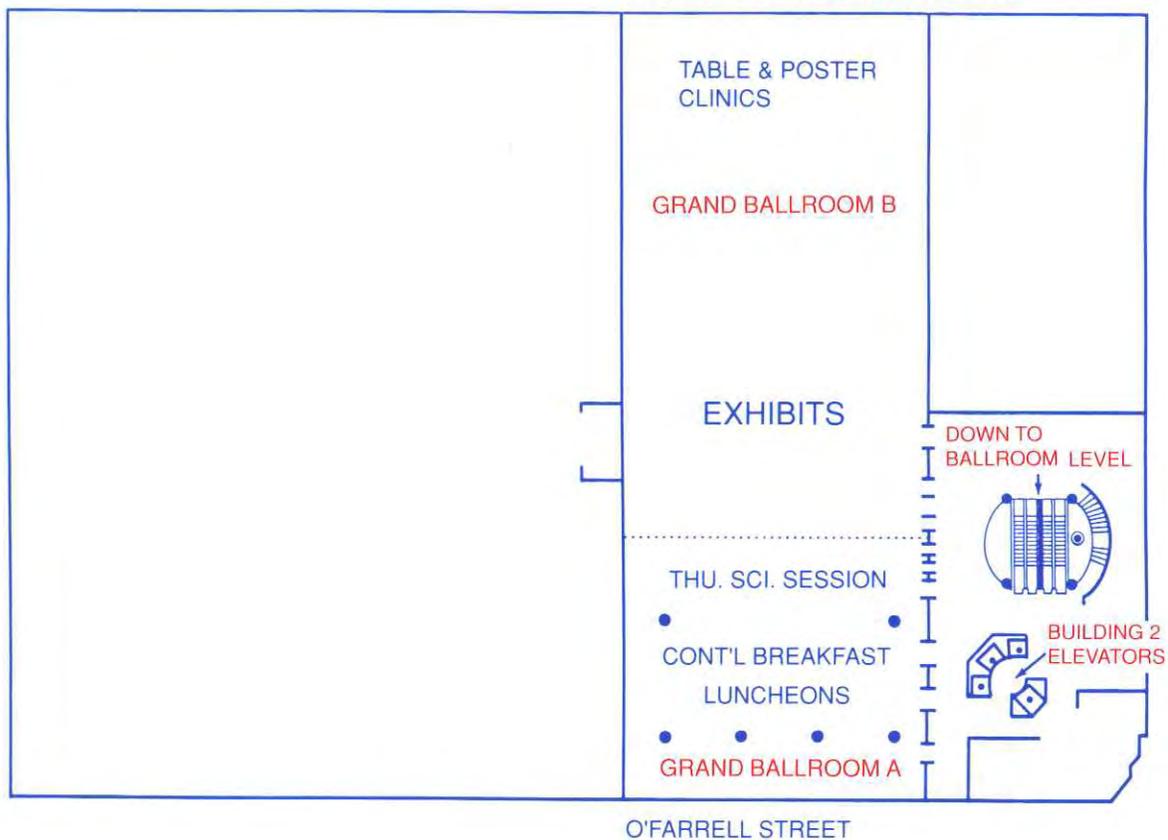
8-8:45 am Farewell Breakfast Buffet, Plaza Room
9-10:30 am Sci Session XII, Imperial Brm A
9-10:30 am Sci Session XIII, Imperial Brm B

San Francisco Hilton

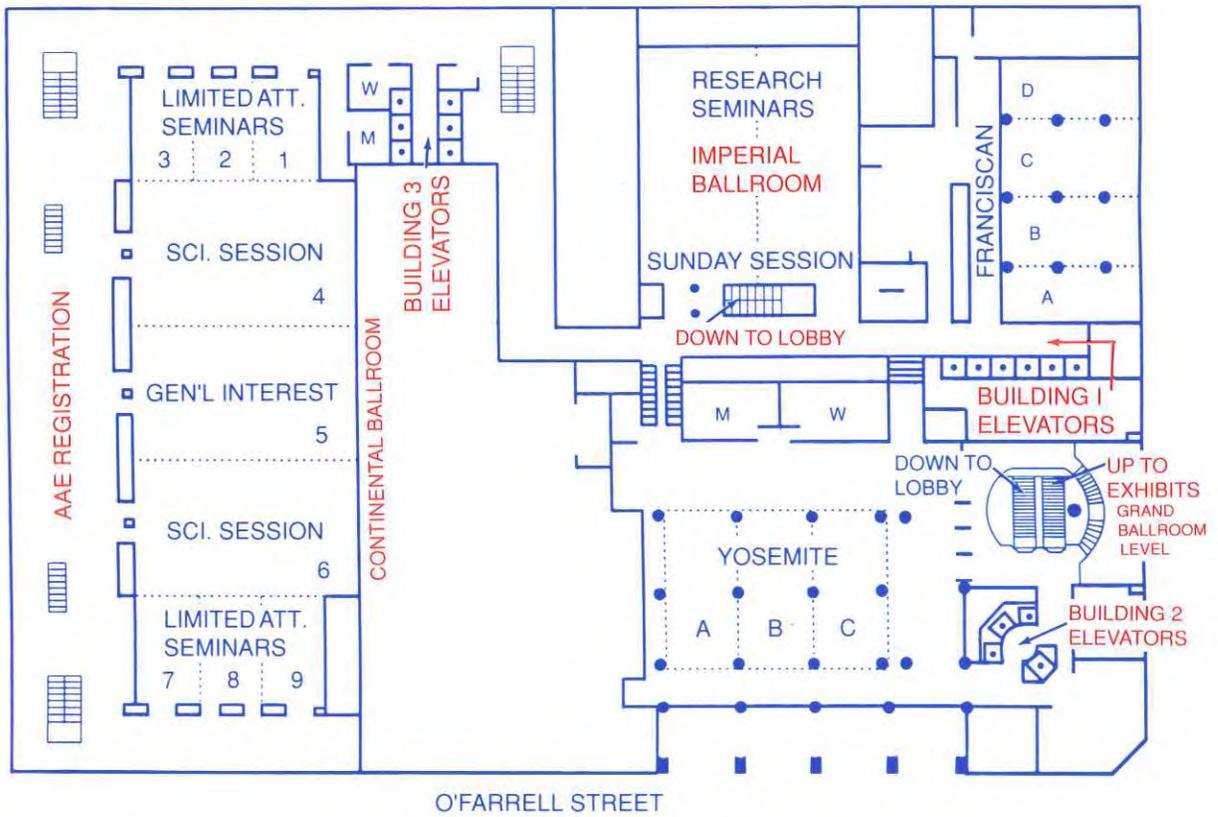
4TH LEVEL BUILDING 3



GRAND BALLROOM LEVEL



BALLROOM LEVEL



LOBBY LEVEL

