1992 Annual Session
Bridge to Understanding
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## Program

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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

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President

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President-elect

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1992

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District VI

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1992

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1993

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1993

District VI

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.
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.

**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.**

**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
CONTINUING EDUCATION COURSE
Continental Ballroom (by ticket only)

Treatment interactions in endodontic practice
Moderator: MAHMoud TOBRAINjAD, 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 thermofoil 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. MOSHONO & M. TROPE,
Hebrew Univ & Temple Univ

11:30
Endodontic retreatment comparing laterally condensed gutta-percha & thermofoil
NOBORU IMURA*, M. ZUOLO & D. KHERLAKIAN,
Univ of Sao Paulo

11:45
Retreatment efficacy 3 months after canal obturation using different sealers
JOSHUA MOSHONO*, M. TROPE & S. FRIEDMAN,
Hebrew Univ & Temple Univ

12:00
Thermofoil retreatment with and without chloroform solvent
LISA R. WILCOX*, Univ of Iowa

12:15
Use of a gallium alloy as a retrofitting material
ARMEN KUPELION*, R.A. BARKHODAR, 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.
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
(Gerard W. Harrington, DDS, MSD, Seattle, WA
Radiographic observations of diagnostic value will be presented, including projection effect, sinus recesses, myositis, 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 pulps teeth are an esthetic challenge and prevention of adverse affects 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).
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 lasering. 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!
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 periapical 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.
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. BUONCRISTANI*, 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 presenta-
tion.

AADS SECTION MEETING
Continental Ballroom 7
4:30 - 5:30 pm

* Presenter

11
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 SILVERSTEIN, DMD, Cambridge, MA
LARRY CHANDLER, Chicago, IL
RICHARD RUBINSTEIN, DDS, MS, Farmington Hills, MI
STUART B. FOUNTAIN, DDS, MSc, Greensboro, NC
KENT CHRISTIENSEN, DDS, Provto, 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.
RESEARCH SEMINARS III
Imperial Ballroom
Moderators: ALFRED W. READER, DDS
Pataskala, OH
WILLIAM P. MAHER, DDS, MS
Troy, MI

Graduate Student Section
9:00
Linguin 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. CAILLETTEAU,
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. EBERHARD*, 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 ultra-
sonic 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 avail-
able 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. SHOVEL, DDS, MS, Newark, NJ
OSHA regulations change as quickly as the tide. This
seminar will provide methodologies to simply and effec-
tively 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

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 cumula-
tive 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.

* Speaker serves as a consultant and/or has commercial
interest in subject matter.
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 work-
shop 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 enlarg-
ing root canals while closing the dentinal tubules. The
presenters will discuss the possible use of these instru-
ments 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 ex-
tacted 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 opti-
num 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. WIEHANN* & L.R. WILCOX, Univ of Iowa

SCIENTIFIC SESSION IX
Continental Ballroom 6
Moderator: CINDY R. RAUSCHENBERGER, DDS, MS
Baltimore, MD

What’s New in Post-ops?

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.

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)

* Speaker serves as a consultant and/or has commercial interest in subject matter.
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 smear 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. KRAUS, 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 periapical 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 aerosolized herpes-simplex virus
ROBERT J. CEISEL, DDS, Northwestern Univ

PC 11 Comparison of obturation techniques with SEM and dye penetration
DOMENICO 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. MOISEIWITSCH, BDS, Univ of North Carolina

PC 15 Antimicrobial effect of Ca(OH)2 supplement with metronidazole and chlorhexidine as intracanal medicaments
BARTLEY T. QUILLEN, 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 Benedyl injections to reduce post-instrumentation pain
ALAN J. NEVINS, DDS, South Hampton, NY
## 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 therma fill 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, DMD, Univ of Maryland |

## SCIENTIFIC SESSION X

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

**Can We Stop the Leek?**

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 retrofill 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.
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 CASTELNUCCI, 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 resorbative defects, in which creative variations of nonsurgical 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.
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
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.

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.

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.
AAE Auxiliary

OFFICERS
Mrs. Cheryl Pranikoff (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

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.

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, MSocD, 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
Board & Committee Meetings

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 ...................................................................... Belvedere B
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
AAE Board of Directors, 8 am - 5 pm ................................ Marin

Alumni, Affiliates & Other Groups

WEDNESDAY, MAY 6
US Army Assn of Endo, 4:30-6 pm ................................ Yosemite C

THURSDAY, MAY 7
AADS Section Meeting, 4:30-5:30 pm ........................................ Cont Ballroom 7
Christian Endo Society, 5-6 pm .............................................. Belvedere A
Harvard Forsey Alumni, 7-9 pm .............................................. Belvedere A
Int'l Fed of Endo Assn, 10 am-12 n ........................................ Yosemite C
Loma Linda Univ, 6:30-9 pm ..................................................... Belvedere 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 ..................................................... Belvedere B
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 B
Univ of Pennsylvania, 7-10 pm .............................................. Concordia-Argonaut
US Army Assn of Endo, 7-9 pm .............................................. Cont Ballroom 1-2

FRIDAY, MAY 8
Bayor 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, 5-8 pm .................................... Tiburon A
Marshall Oregon/Ohio Alumni, 5:30-7:30 pm .................... Belvedere 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 ................................................................. Belvedere B
US Navy Assn of Endo ............................................................. Tiburon

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

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

Ex Officio: Alan G. Selbst

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

1995
John W. Harrison
Synguk Kim
John W. Myers, Secy/Treasurer
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<td>505 Ace Surgical Supply Co. 1034 Pearl St Brockton, MA 02403</td>
<td>401 Elliman Int'l Mfg. Inc. 1135 Railroad Ave Hewlett, NY 11557</td>
<td>512 Laser Endo Technic 981 Calle Amanecer San Clemente, CA 92672</td>
<td>502 Quintessence Publishing Co. 551 N. Kimberly Dr Carol Stream, IL 60188</td>
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<td>417 Advanced Dental Concepts Inc. 7 N. Pinckney, Ste 305 Madison, WI 53793</td>
<td>205 Encyclopaedia Britannica North America 310 S. Michigan Ave Chicago, IL 60604</td>
<td>514 Medidenta Int'l Inc. 39-23 62nd St Woodside, NY 11377</td>
<td>201 R. Chige Inc. 475 W. Merrick Rd Valley Stream, NY 11580</td>
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<td>406 Advanced Endodontic Concepts Inc. 7011 Shadowford Rd, #204 Chattanooga, TN 37421</td>
<td>403 Endoco Inc. 5180 Park Ave Chattanooga, TN 37411</td>
<td>217 Micro-Designs Software Corp. 704 Executive Blvd Valley Cottage, NY 10990</td>
<td>414 realtime Systems 84 Terra Bella Dr Walnut Creek, CA 94596</td>
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<td>202 Amadent P.O. Box 733 Cherry Hill, NJ 08033</td>
<td>304 Essential Dental Systems Inc. 69 Leuming St. S. Hackensack, NJ 07606</td>
<td>508 Rinn Corp/Green Dental Prod. 1212 Abbott Dr Elgin, IL 60123</td>
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<td>302 Analytic Technology Corp. 15233 NE 90th St Redmond, WA 98052</td>
<td>416 Excellence in Endodontics 11545 Sorrento Valley Rd, Ste 313 San Diego, CA 92121</td>
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<td>314 Roydent Dental Prod. 6964 Crooks Rd Troy, MI 48098</td>
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<td>317 Asepico Inc. P.O. Box 3209 Kirkland, WA 98033</td>
<td>418 H. W. Anderson Products Inc. P. O. Box 1050 Chapel Hill, NC 27514</td>
<td>513 Mosby-Year Book 506 E. 39th Ave San Mateo, CA 94403</td>
<td>511 Tamiko Corp. 15020 Delano St Van Nuys, CA 91411</td>
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<td>402 Astra Pharmaceutical Products Inc. 50 Otis St Westboro, MA 01581</td>
<td>313 Healthico Int'l 25 Stuart St Boston, MA 02116</td>
<td>102 Myco/Union Breach 2054 W Clearfield St Philadelphia, PA 19132</td>
<td>218 Texceed Corp/Ottura II 3001 Redhill Ave, Bldg 4-104 Costa Mesa, CA 92626</td>
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<td>116 Becker-Parkin Dental Supply Co Inc 50 W. 13th St, 8th Fl New York, NY 10011</td>
<td>903 HealthFirst Corp. 22316 70th Ave W, Unit A Mountlake Terrace, WA 98043</td>
<td>506 National Dental Eng. &amp; Mfg. P.O. Box 3709 Dallas, TX 75208</td>
<td>501 Thermafi/Tulsa Dental Prod. 5001 E. 68th St, #500 Tulsa, OK 74136</td>
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<td>106 Block Drug Co. 257 Cornelison Ave Jersey City, NJ 07302</td>
<td>306 Hygienic Corp. 1245 Home Ave Akron, OH 44310</td>
<td>413 Nephron Corp. - Dental 321 E. 25th St. Tacoma, WA 98421</td>
<td>503 Western Dental Specialties 3680 Charter Park Dr San Jose, CA 95138</td>
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<td>211 Brasselier USA 800 King George Blvd Savannah, GA 31419</td>
<td>109 JEDMED Instrument Co. 6096 Lemay Ferry Rd St. Louis, MO 63129</td>
<td>415 OP-DOP Inc. 198 Cirby Way, Ste 120 Roseville, CA 95678</td>
<td>405 Treloar &amp; Heisel Inc. P.O. Box 5168 3132 Wilkinson Rd New Castle, PA 16105 (Registration Area)</td>
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<td>112 Cauk/Dentsply P. O. Box 359 Milford, DE 19963</td>
<td>318 Kelly Systems Inc. 6735 Telegraph Rd, Ste 205 Birmingham, MI 48010</td>
<td>507 Osada Electric Co. Inc. 8242 W. Third St, #150 Los Angeles, CA 90048</td>
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<td>207 Charles B. Schwed Co. Inc. 138 Audley St Kew Gardens, NY 11418</td>
<td>109 JEDMED Instrument Co. 6096 Lemay Ferry Rd St. Louis, MO 63129</td>
<td>108 Premier/Espe-Premier 1710 Romano Dr Norristown, PA 19401</td>
<td>115 Williams &amp; Wilkins 428 E. Preston St Baltimore, MD 21202</td>
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<td>213 Cox Sterile Products Inc. 5115 McKinney, Ste C Dallas, TX 75205</td>
<td>206 K Comp 515 N. Glendale Ave Glendale, CA 91206</td>
<td>315 Professional Business Systems P.O. Box 49675 Austin, TX 78767</td>
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<tr>
<td>515 Darby Dental Supply 160 Banke Ave Rockville Centre, NY 11570</td>
<td>111 Kerr Mfg. Co. 28200 Wick Rd Romulus, MI 48174</td>
<td>404 Professional Results-Tooth Slooth 29 Merano Laguna Niguel, CA 92677</td>
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<td>517 Designs for Vision Inc. 760 Kohler Ave Ronkonkoma, NY 11779</td>
<td>113 Kilgore Int'l Inc. 36 W. Pearl St Coldwater, MI 49036</td>
<td>204 Pulpdent Corp. 80 Oakland St Watertown, MA 02272</td>
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<td>215 Dunvale Corp. 141 Union St Gilberts, IL 60136</td>
<td>214 Knoll Pharmaceuticals 30 N. Jefferson Rd Whippany, NJ 07981</td>
<td>301 Quality Aspirators P.O. Box 362120 Duncanville, TX 75138</td>
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<td>Robert G. Kesel</td>
<td>'45-'46</td>
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<td>E. G. Van Valen</td>
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<td>Maynard K. Hine</td>
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<td>George G. Sharp</td>
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<td>F. Darl Ostrander</td>
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<td>Vincent B. Milas</td>
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<td>James H. Sherard, Jr.</td>
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<td>Alfred L. Frank</td>
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<td>Robert A. Uchin</td>
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<td>George A. Zurkov</td>
<td>'77-'78</td>
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<tr>
<td>Harry Blechman</td>
<td>'78-'79</td>
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<td>Paul E. Zeigler</td>
<td>'79-'80</td>
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<td>Edward M. Osetek</td>
<td>'80-'81</td>
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<td>Henry J. Van Hassel</td>
<td>'81-'82</td>
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<tr>
<td>Noah Chivian</td>
<td>'82-'83</td>
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<td>Donald E. Arens</td>
<td>'83-'84</td>
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<td>Stephen F. Schwartz</td>
<td>'84-'85</td>
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<td>Herbert Schilder</td>
<td>'85-'86</td>
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<td>Michael A. Heuer</td>
<td>'86-'87</td>
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<tr>
<td>Charles J. Cunningham</td>
<td>'87-'88</td>
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<tr>
<td>Joseph D. Maggio</td>
<td>'88-'89</td>
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<tr>
<td>Gerald C. Dietz, Sr.</td>
<td>'89-'90</td>
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<tr>
<td>James C. McGraw</td>
<td>'90-'91</td>
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</tbody>
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### Award Recipients

#### Edgar D. Coolidge Award

- Edgar D. Coolidge ........................................... '69
- Harry B. Johnston ........................................... '70
- Henry A. Bantels ............................................. '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. Naifork ............................................. '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 Nyaard-Osby ............................................ '76
- I.B. Bender ................................................... '78
- Samuel Seltzer ............................................... '80
- Harold R. Stanley ............................................. '81
- Kaare Langeland ............................................... '82
- Henry J. Van Hassel .......................................... '84
- Melvin Goldman ............................................... '89
- Syng Cuk Kim .................................................. '90
- Calvin D. Tormack ............................................ '91
- Henry O. Trowbridge ......................................... '92

#### Ralph F. Sommer Award

- Calvin D. Tormack ........................................... '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
2:30 pm ...................... LAS 7&9, Cont Brm 1&3
2:4-3 pm ..................... LAS 8, Cont Brm 2
2:30 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
2-3-5 pm .................... General Assembly, Imperial Brm
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
My Schedule...

wednesday

thursday

friday

saturday

sunday
Important Notes

Thank you for attending the AAE's 49th Annual Session. We hope you found the meeting to be both rewarding and enjoyable. See you next year in Chicago, April 28 - May 2, 1993 as we celebrate our 50th!