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Expanding Our Educational Horizons  
1994 Annual Session





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**American Association of Endodontists**  
**51<sup>st</sup> Annual Session, April 27 - May 1, 1994**  
**Honolulu, Hawaii**



## President's Welcome

Welcome to Hawaii and the 51<sup>st</sup> Annual Session of the American Association of Endodontists. I am honored to be your host for this visit to the islands.

"Expanding Our Educational Horizons," our 1994 Annual Session program, has been carefully coordinated by Jim Gutmann, General Chair. Exercising his enthusiasm and dedication to quality, he has charted an exciting, contemporary array of events and educational opportunities. Marshall Peikoff, Program Chair, has designed educational sessions offering renowned speakers who will inform us on the latest scientific, clinical and practice management advances and opportunities. They will guide us down the newest of endodontic paths while preparing us to meet our future. And Bob Steiman, as Limited Attendance Sessions Chair, has gathered a diverse group of clinicians from around the world to provide unique opportunities for information exchange.

Listen to the latest in scientific and clinical information presented in Research Seminars and Poster Clinics selected by Bob White and the Research and Scientific Affairs Committee. See and hear what graduate students and practicing endodontists have concluded in the Table Clinics, chaired by Jerry Glickman. In the General Interest Sessions, learn how to measure your patients' satisfaction with your services and how to increase the perceived value of those services, how to recognize chemical dependency and, for the younger members, how to move from one aspect of your career to another. Also, don't forget to join in the discussions at the Practitioners' Platform and to stop by the exhibits of dental manufacturers and distributors to see the latest in dental technology and products.

On Wednesday, Bill Johnson and the Educational Affairs Committee will augment the program by presenting a day-long continuing education course. Participants will better their abilities to diagnose and manage orofacial pain by learning about the latest in research and clinical techniques.

To complement your educational experience, join in the special island social and recreational events that have been planned for you. The Welcome Reception starts off the week, followed by a traditional Hawaiian ceremony at the Opening Session Breakfast. And the event to end all events—the Hawaiian Royal Ball—closes the session. Those who enjoy outdoor activities will want to join in the Fun Run through Ala Moana Park, or you may choose to chart your own course along the largest palm-shaded beach on the island—that of the Hilton Hawaiian Village, the AAE official hotel. And, finally, an exciting package of island tours on land and sea has been arranged for you through Inside Hawaii, Inc.

Michael Tajima and the Local Arrangements Committee have worked for months coordinating many unseen details that will make this annual session a very special event. Dorothy Nitta, Carole Haga and Mary Kondo also deserve our thanks for arranging both an informative and a fun program for Auxiliary members.

As always, our Executive Director, Irma Kudo, and the AAE staff deserve special thanks. Our annual sessions are always unparalleled due to the thousands of hours of effort they devote to the thousands of details involved in producing an unforgettable gathering for AAE members and friends. And this year will be a special one as the Association bestows honorary membership upon Irma, the person who has held our organization together for the past 14 years.

Thanks for coming. I hope you enjoy these four magnificent days of education and fun in incomparable Hawaii.

**Eric J. Hovland, DDS, MEd, MBA**  
President



# AAE Board of Directors, 1993-94



Eric J. Hovland  
President

## District I Directors



Joel L. Dunsy  
1994

## District II Directors



Harmon R. Katz  
1995

## District III Directors



Paul D. Eleazer  
1994



Richard C. Burns  
President-elect



Henry J. Rankow  
1996



Bruce H. Seidberg  
1996



Jeffrey W. Hutter  
1995



Philip W. Cohen  
Vice President



Jerome V. Pisano  
Secretary

## District IV Directors



Carl W. Newton  
1994

## District V Directors



John W. Myers  
1995

## District VI Directors



Neil W. Bryant  
1994



Denis E. Simon, III  
Treasurer



Henry J. Van Hassel  
Editor



H. Robert Steiman  
1995



James B. Roane  
1996



Robert J. Rosenberg  
1996



Stuart B. Fountain  
Immed. Past President



Irma S. Kudo  
Executive Director





# Annual Session Committee



James L. Gutmann  
General Chair



Marshall D. Peikoff  
Program Chair



Michael S. Tajima  
Local Committee Chair

## PROGRAM

Continuing Education .....	William T. Johnson
Limited Attendance Sessions .....	H. Robert Steiman
Research Seminars & Poster Clinics .....	Robert R. White
Table Clinics .....	Gerald N. Glickman
Exhibits .....	Letty Catrambone

## GENERAL ARRANGEMENTS

Audiovisual .....	Bill Masheter
Hospitality .....	Glenn M. Biven
Hosts .....	John M. Kurahara
Monitors .....	Terry S. Matsumoto
Signs .....	Jerome K. Yamada
Sports .....	Robert K. Flath
AAE Auxiliary Liaisons .....	Dorothy Nitta, Carole Haga, Mary Kondo

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





# General Information

The Hilton Hawaiian Village in Honolulu will be the headquarters hotel for the 51<sup>st</sup> Annual Session.

## AAE HEADQUARTERS OFFICE

Nautilus I & II, Mid Pacific Conference Center  
AAE staff will manage the office. Hours are 7 am - 4 pm Tuesday through Saturday.

## ASSISTANCE FOR THE DISABLED

Special assistance or arrangements may be requested at the AAE Headquarters Office.

## TAPE RECORDING

Teach'em Inc. will record many of the sessions presented. The audio cassettes are available for purchase in the Coral Lounge in the Mid Pacific Conference Center.

Other audio or video taping is allowed ONLY with permission of the speaker.

## CHILDREN'S ACTIVITIES

Sign up in the Rainbow Express book located at the Social Director's desk in the main lobby of the Hilton Hawaiian Village.

## CONTINUING EDUCATION FORMS

**New Procedure Implemented!** A new CE form and instructions are included in your registration packet. If you live in a state requiring continuing education hours for license renewal, please read the new information carefully because members are responsible for maintaining their own records for CE units earned. Extra forms can be obtained and AGD forms can be validated at the AAE Information Booth.

## EXHIBITS

Tapa Ballroom, Tapa Conference Center  
Because exhibitors help to defray some of the cost of the Annual Session, we encourage you to stop by the exhibits and place your orders. *Badges must be worn in the Exhibit Hall.*

Complimentary coffee service will be provided on Thursday, Friday and Saturday in the exhibit area. Exhibit hours are scheduled as follows:

Thursday, April 28	10 am - 5 pm
Friday, April 29	7:30 am - 2 pm
Saturday, April 30	7:30 am - 12:30 pm

## REGISTRATION

Coral Lounge, Mid Pacific Conference Center	
Tuesday, April 26	3 - 8 pm
Wednesday, April 27	8 - 5 pm
Thursday, April 28	8 - 5 pm

Registration fees include the following:

### AAE members (except student members)

Wed/April 27	Welcome Reception
Thur/April 28	Breakfast, all sessions and exhibits
Fri/April 29	Continental breakfast, lunch, all sessions and exhibits
Sat/April 30	Continental breakfast, lunch, one ticket to the President's Dinner Dance, all sessions and exhibits
Sun/ May 1	Buffet breakfast

**AAE student members**—Welcome Reception, all sessions and exhibits

**Non-member professionals, students & dental office staff**—all sessions and exhibits

**Spouses**—Welcome Reception, all sessions and exhibits, AAE Auxiliary dues

**Guests of Registrants** (excludes dental professionals and exhibitors)—Welcome Reception, all sessions and exhibits

**Children**—Badge, Welcome Reception

## PRESIDENT'S DINNER DANCE

Coral Ballroom, Mid Pacific Conference Center  
Saturday, 7:30 - Midnight  
Your table selection for the President's Dinner Dance must be made 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. We suggest contacting your group and exchanging your vouchers as early as possible. Each table seats ten people, and seats are reserved on a first come, first served basis. No exceptions will be made. There will be tables reserved for singles (without significant others).

## SPEAKER AV READY ROOM

Nautilus III, Mid Pacific Conference Center  
Program participants are encouraged to review their audiovisual materials in the speaker ready room prior to their presentations to avoid possible equipment problems.



# Program

**WEDNESDAY, APRIL 27**

**CONTINUING EDUCATION COURSE**

Coral Ballroom III,  
Mid Pacific Conference Center (by ticket only)  
8 am - 4 pm

***Diagnosis and management of orofacial pain***

Moderator: WILLIAM T. JOHNSON, DDS,  
MS, Iowa City, IA



8 - 8:30 am

*Introduction: An overview of orofacial pain*  
GEORGE A. ZURKOW, DDS,  
Wilmington, DE

This presentation will provide an introduction to the concept of a multi-disciplinary approach for solving the diagnostic dilemmas encountered in the management of pain. The endodontist should be the coordinator of a team that includes a periodontist, neurologist, psychologist and other specialists as needed. The expeditious diagnosis of orofacial pain can prevent the progression into chronic pain with all its serious systemic effects.



8:30 - 10 am

*Diagnosis and therapeutic management of head and neck pain of nonodontogenic origin*  
GILBERT E. LILLY, DDS,  
Iowa City, IA

Diagnosis and therapeutic management of head and neck pain that is not odontogenic in origin but that can mimic odontogenic pain will be presented. Subjects will include trigeminal neuralgia, cluster headaches, sinusitis, malignant neoplastic disease, cranial arteritis, Eagle's Syndrome and migraine headaches.

10 - 10:30 am

Break



10:30 - 11:30 am

*Neurosurgical management of chronic orofacial pain*  
YOSHIO HOSOBUCHI, MD,  
Honolulu

Caution must be exercised when considering the problem of a patient with orofacial pain. The physician or dentist must avoid focusing unduly on his/her specialty interest and asking questions related to it. For instance, for a patient with the same set of complaints, the dentist might ask about the symptoms of pulpitis, the otologist might ask about the symptoms of chronic otitis media, the orthopedist might ask about the symptoms of cervical arthritis and the internist might ask about the symptoms of arteritis.

Patterns of diffuse discomfort may take a primary position in the patient's mind. Sometimes these patterns must be readjusted to secondary priority by the dentist. The "source" pain may be minor, triggering severe secondary pain patterns.

This presentation will address the neurosurgical treatments of head and face pain, including a brief review of its anatomy and physiology.

11:30 am - 12:30 pm Lunch



12:30 - 2 pm

*Biologic basis of analgesics in endodontics*  
KENNETH M. HARGREAVES,  
DDS, PhD, Minneapolis

How can advances in research lead to advances in therapeutics? Recent discoveries of mechanisms of pain and inflammation have led to new insights in pain diagnosis and management. This lecture will review the biological basis of pain perception from the perspective of providing clinicians with treatment strategies for improved pain control in endodontics.

2 - 2:30 pm Break





2:30 - 4 pm

*The pharmacologic management of acute and chronic orofacial pain*  
**RAYMOND A. DIONNE, DDS,**  
 PhD, Bethesda, MD

The pharmacologic management of acute and chronic pain requires the selection of drugs with proven efficacy based on the results of controlled clinical trials, the use of these drugs in the correct doses and in appropriate drug combinations, and the adjustment of the dose and frequency of administration to balance therapeutic efficacy with undesirable side effects. This presentation will review the scientific evidence for making these decisions in clinical practice and provide therapeutic recommendations for the management of acute and chronic pain based on scientific evidence.

**WELCOME RECEPTION**  
**"ALOHA POTPOURRI"**

Coral Ballroom, Mid Pacific Conference Center (by ticket only)

7 - 9 pm

This fun beginning to the Annual Session will feature sumptuous foods from the international melting pot of the Hawaiian Islands. And remember—you're in the islands where casual attire is perfectly appropriate.



**Dinner Dance Ticket Exchange**

Gather your friends and exchange your seating vouchers for the President's Dinner Dance no later than 5 pm Thursday, April 28. Each table seats ten, so make arrangements early to enjoy this elegant evening of gourmet dining, dancing and merriment!

Badges must be worn at all official AAE functions.

**THURSDAY, APRIL 28**

**OPENING SESSION BREAKFAST**

Coral Ballroom III & IV,  
 Mid Pacific Conference Center (by ticket only)  
 8 - 10 am

Keynote: **ERIC J. HOVLAND, DDS, MEd, MBA,**  
 President, American Association of Endodontists

A traditional Hawaiian ceremony featuring dances of the islands officially opens the 51<sup>st</sup> Annual Session.

**EXHIBITS**

Tapa Ballroom, Tapa Conference Center  
 10 am - 5 pm

**DISTRICT CAUCUSES**

10 - 11 am

- District I ..... Rainbow Suite I
- District II ..... Rainbow Suite II
- District III ..... Iolani Suite I
- District IV ..... Iolani Suite II
- District V ..... Iolani Suite III
- District VI ..... Honolulu Suite III

Rainbow Suites are in the Rainbow Tower. Iolani and Honolulu Suites are in the Tapa Conference Center.

**AFFILIATE LEADERSHIP CONFERENCE**

Iolani Suite IV, Tapa Conference Center

11 am - 12 noon

Officers of AAE affiliates and AAE committee chairs are requested to attend this briefing on current AAE issues and activities.



**No Smoking**

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

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





**Program, continued**

**SCIENTIFIC SESSION I**

Coral Ballroom I & II,  
Mid Pacific Conference Center  
Moderator: THOM C. DUMSHA, DDS, MS,  
Baltimore



11 am - 12:30 pm

*Periodontal regeneration:  
State of the science*  
GERALD M. BOWERS, DDS,  
MS, Baltimore

The formation of new bone, cementum and periodontal ligament over a pathologically exposed root surface has long been a goal of periodontal therapy. There is convincing histological and clinical evidence that periodontal regeneration is a clinical predictable reality in vital and endodontically treated teeth. The combination technique of guided tissue regeneration and bone grafting has shown great promise for treatment of advanced lesions. Possible applications for endodontic therapy will be presented.

**SCIENTIFIC SESSION II**

South Pacific Ballroom III & IV,  
Mid Pacific Conference Center  
Moderator: KENNETH L. ZAKARIASEN,  
DDS, MS, PhD, Milwaukee



11 am - 12:30 pm

*Update on lasers in  
endodontics*  
ADAM STABHOLZ, DMD,  
Jerusalem

Laser technology has been developed rapidly in the last decade. New lasers with a wide range of characteristics are now available and are being used in the various fields of dentistry. The recent data related to the application of laser energy on the tooth and its periapex as well as personal experience in using various laser systems in dentistry will be described and discussed.

**RESEARCH SEMINARS I**

Honolulu Suite I, Tapa Conference Center  
Moderator: ROBERT A. AUGSBURGER,  
DDS, MSD, Fairfax, VA

11:00  
*Mineral trioxide aggregate as a root-end filling material*  
MAHMOUD TORABINEJAD\*§, T.R. PITT  
FORD & C.U. HONG, Loma Linda Univ, Univ  
of London & Dankook Univ

11:15  
*Histologic study of healing periradicular lesions with and without curettage*  
ABDULLAH SOLUTI\* & M. TORABINEJAD,  
Mashad Univ & Loma Linda Univ

11:30  
*A comparison of tissue reactions to Ketac-Fil and amalgam*  
CHARLES J. CUNNINGHAM\*, M. DeGROOD,  
B. OGUNTEBI & R. PINK, Univ of Florida

11:45  
*Antimicrobial activity of two retrofilling materials*  
SEBASTIANO ANDREANA\*, L. GIARDINO,  
G. PECORA & F. GALLO, Univ of  
Pennsylvania & SUNY at Buffalo

12:00  
*Apical leakage of a new glass ionomer root canal sealer*  
DILEK M. DALAT\*, B. ONAL & T. ERTL,  
Ankara Univ, Ege Univ, Freie Univ

12:15  
*Loads required to dislodge various retrograde filling materials*  
KENNETH D. TYLER\*, V. DHURU &  
H.D. WALIA, Marquette Univ

\* Presenter

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



**RESEARCH SEMINARS II**

**Graduate Student Section**

Honolulu Suite II, Tapa Conference Center  
Moderator: LISA R. WILCOX, DDS, MS,  
Iowa City, IA

11:00  
*Reliability of apical dye sealability studies with and without vacuum removal of air inclusions*  
ROBERT S. RODA\* & J.L. GUTMANN, Baylor College of Dentistry

11:15  
*Apical dye leakage of four root canal filling techniques*  
EVELYN ABREU\*, S.L. FROST, S. JONES, S. RECORD, R. WHITE & M. GOLDMAN, Tufts Univ

11:30  
*The influence of a ZOE base on coronal leakage of post prepared teeth*  
JOSE A. GUERRA\*, J.E. SKRIBNER & L.M. LIN, Univ of Medicine & Dentistry of New Jersey

11:45  
*The effect of immediate and delayed post space preparation on apical dye leakage*  
VIRGINIA KARAPANOU\*, P. CABRERA, J. VERA, R. WHITE & M. GOLDMAN, Tufts Univ

12:00  
*Benadryl and combination benadryl/lidocaine for mandibular anesthesia*  
JENNIFER W. WILLETT\*, A. READER, M. BECK, W. MEYERS & R. NIST, Ohio State Univ

12:15  
*The combination IAN/PDL for mandibular first molar anesthesia*  
MICHAEL A. CHILDERS\*, A. READER, W. MEYERS, R. NIST & M. BECK, Ohio State Univ

**PRACTITIONERS' PLATFORM I**

Honolulu Suite III, Tapa Conference Center  
Moderator: GERALD N. GLICKMAN, DDS, MS, Ann Arbor, MI

11:00  
*Tempit: The "gentle" endodontic temporary material*  
MANUEL I. WEISMAN, DDS, Augusta, GA

11:15  
*Molar transplantation*  
BRUCE H. THOMPSON, DMD, Fort Wainwright, AK

11:30  
*Avulsions with conflicting results*  
RAJENDRA P. SINGH, BDS, Washington

11:45  
*Non-healing periapical radiolucency*  
MORDEHAI SCHECHTER, DDS, Givatim, Israel

12:00  
*Invasive cervical resorption: A frustrating continuum*  
JAMES L. GUTMANN, DDS, Dallas

**LIMITED ATTENDANCE SESSIONS**

Limited Seating. NO standing permitted. All LAS rooms are located in the Mid Pacific Conference Center.

LAS 1 - South Pacific Ballroom I  
11 am - 12:30 pm  
*Digital imaging in endodontics*  
JOHN A. KHADEMI§, DDS, Iowa City, IA  
The availability of several filmless, low dose digital radiography systems promises to add a new and exciting dimension to the practice of endodontics. This session will present an overview of the vocabulary and technology used in digital imaging as well as demonstrate the diagnosis, communication and patient education potential of these devices.

LAS 2 - South Pacific Ballroom II  
11 am - 12:30 pm  
*Understanding the balanced force technique*  
EUGENE A. PANTERA, JR., DDS, MS, Buffalo, NY  
This non-mechanical technique uses the clockwise and counterclockwise rotation of endodontic files. Topics include rationale for rotation, instrument selection, technique, apical patency, creating the apical capture zone and difficulties.



**No Smoking**

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



**Program, continued**

**LIMITED ATTENDANCE SESSIONS**

Limited Seating. NO standing permitted. All LAS rooms are located in the Mid Pacific Conference Center.

LAS 3 - Sea Pearl Suite I & II

11 am - 12:30 pm

*Developing a case histories portfolio*

LEIF K. BAKLAND, DDS, Loma Linda, CA  
RALPH BELLIZZI, DDS, Lacey, WA  
SAMUEL O. DORN, DDS, Ft. Lauderdale, FL  
ROBERT L. ELLISON, DDS, Detroit  
HAROLD E. GOODIS, DDS, San Francisco  
M. LAMAR HICKS, DDS, MS, Silver Spring, MD  
SANDRA MADISON, DDS, MS, Asheville, NC  
LOUIS E. ROSSMAN, DMD, Philadelphia  
ARTHUR E. SKIDMORE, DDS,

Morgantown, WV

The American Board of Endodontics will present an informative seminar on developing an acceptable case histories portfolio. Discussion will include case documentation, selection and categorization; demonstration of a specialist's proficiency and scope of practice; and many other topics. This LAS will be beneficial to those who are in or contemplating entering the board certification process.

LAS 4 - Sea Pearl Suite III & IV

11 am - 12:30 pm

*Calcium hydroxide: Magic vs. reality*

ZVI FUSS, DMD, Tel Aviv, Israel

Calcium hydroxide is widely used in dental practice in the following procedures: pulp capping, pulpotomy, apexification, root fractures, perforations, inflammatory root resorption and as intracanal medicament. The mechanism of action in its various applications is yet unknown. It has been suggested that calcium hydroxide can stimulate mineralization and also act as a bactericidal agent. Currently the material is considered a panacea for dental problems and is used in combination with other "magic" commercial formulations. This presentation will discuss the rationale of using calcium hydroxide in its various applications. Better understanding of the mechanism will offer the opportunity to use it when indicated and to look for alternatives when necessary.

LAS 5 - Sea Pearl Suite V & VI

11 am - 12:30 pm

*Fundamentals of investing for endodontists*

RICHARD LEFFEL, DMD, MBA, Monroeville, PA  
This presentation's objective is to help endodontists evaluate their financial advisers. Emphasis will be placed on financial theory, investment objectives and risk analysis. Different investments will be discussed, but no specific recommendations will be made.

**AMERICAN BOARD OF ENDODONTICS  
LOUIS I. GROSSMAN MEMORIAL  
LUNCHEON**

Coral Ballroom III,

Mid Pacific Conference Center (by ticket only)

12:30 - 1:45 pm

Moderator: M. LAMAR HICKS, DDS, MS,  
Silver Spring, MD



*Obligation of the privileged*  
EDWARD M. OSETEK, DDS,  
Chicago

**SCIENTIFIC SESSION III**

Coral Ballroom I & II,

Mid Pacific Conference Center

Moderator: NEVILLE J. McDONALD, BDS,  
MS, Baltimore

2 - 4 pm



*Periodontal regeneration:  
Horizon techniques*  
GERALD M. BOWERS, DDS,  
MS, Baltimore

Current regenerative techniques afford the opportunity to treat patients with advanced periodontal disease successfully. Techniques now being tested offer even greater promise for the future. Three major areas of interest—growth proteins, resorbable membranes and combination therapy—will be discussed and compared to existing techniques.



**SCIENTIFIC SESSION IV**

South Pacific Ballroom III & IV,  
Mid Pacific Conference Center  
Moderator: LEIF K. BAKLAND, DDS,  
Loma Linda, CA



2 - 4 pm

*On the cutting edge with  
nickel-titanium*

THOMAS P. SERENE, DDS,  
MSD, Charleston, SC

Nickel-titanium is a superelastic (shape memory) alloy ideally suited for endodontic instruments. Files made from this alloy are biologically acceptable, highly flexible and stronger than conventional stainless steel files. This lecture will summarize over two years of research and clinical application using hand and mechanical instrumentation.

**GENERAL INTEREST SESSION I**

Coral Ballroom IV,  
Mid Pacific Conference Center  
Moderator: WILFRED C. WEINSTEIN, DMD,  
Vancouver, Canada



2 - 4 pm

*What you always wanted to  
know about drugs of abuse  
and chemical dependency  
but were afraid to ask*

HAROLD L. CROSSLEY, DDS,  
PhD, Baltimore

Questions about street drugs and chemical dependency will be answered in this dynamic yet hard-hitting presentation that will take you from the streets into the office to identify substance abuse and what to do about it. The lecture includes discussion of the evolution of addictive disease and a biochemical explanation for addiction. The origins, types, mechanisms of action, and signs and symptoms of commonly abused substances will also be explored. This information will provide a back drop for the management of the chemically dependent patient whether active or in recovery. This lecture should be attended by all dentists, family members and office personnel because of the vital importance of this topic in our society today.

**RESEARCH SEMINARS III**

Honolulu Suite I, Tapa Conference Center  
Moderator: ERIC M. RIVERA, DDS, MS,  
Iowa City, IA

2:00

*Prevalence of black-pigmented bacteria  
associated with root canal infections*

J. CRAIG BAUMGARTNER\* & B.J. WATKINS,  
Oregon Health Sciences Univ

2:15

*Effects of bacterial peptidoglycan on monocyte  
inflammatory function*

KAMRAN E. SAFAVI\* & F.C. NICHOLS,  
Univ of Connecticut

2:30

*Optical detection of hemoglobin and oxygen in  
pulpal blood*

LISA R. WILCOX\*, A.M. DIAZ-ARNOLD &  
M.A. ARNOLD, Univ of Iowa

2:45

*Chronology of hypoxia in rat pulpitis demon-  
strated by 3<sub>H</sub>-Misonidazole*

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

3:00

*IL-1B: a marker for pulpal inflammation*

CINDY R. RAUSCHENBERGER\* &  
C. COOTAUCO, Univ of Maryland

3:15

*Expression of EGF receptor in the inflammatory  
periapical lesions*

LOUIS M. LIN\*, C. LEUNG, S.L. WANG,  
C.Y. WU-WANG & J.E. SKRIBNER, Univ of  
Medicine & Dentistry of New Jersey

3:30

*Stimulation of collagen synthesis in RPC C2A  
by IGF-1*

RAHMAT A. BARKHORDAR\*,  
S.R. SRINIVASAN, S. MAKADA, P. GHANI,  
A.C. KARIM & Z.H. HUSSAIN, Univ of  
California at San Francisco & Univ of  
Manitoba

\* Presenter



**Program, continued**

**RESEARCH SEMINARS III, continued**

Honolulu Suite I, Tapa Conference Center

Iowa City, IA

3:45

*Effect of TGF- $\beta$  on collagen synthesis by dental pulp fibroblasts*

RAHMAT A. BARKHORDAR\*, P. GHANI, B. ENRIQUEZ & Z.H. HUSSAIN, Univ of California at San Francisco

**RESEARCH SEMINARS IV**

**Graduate Student Section**

Honolulu Suite II, Tapa Conference Center

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

2:00

*Wear and cutting efficiency of the rispisonic file*

GORDON W. WOOLLARD\*, F.A. RUEGGEBERG, P.D. PRIMACK, R.W. ANDERSON, J.A. HORNER & J. McPHERSON, US Army Dental Activity & Medical College of Georgia

2:15

*Healing potential of osteotomies of the nasal sinus in the dog*

RODERICK W. TATARYN\*, P.J. BOYNE & M. TORABINEJAD, Loma Linda Univ

2:30

*An evaluation of microleakage in preparations of two different lengths*

TIMOTHY P. MAHER\*, H.D. WALIA & B.P. AUSTIN, Marquette Univ

2:45

*Evaluation of the seal of various amalgam root-end fillings*

JEFFREY R. JOHNSON\*, R.W. ANDERSON & D.H. PASHLEY, Medical College of Georgia

3:00

*Evaluation of dentin bonding agents used to seal resected root ends*

PAUL A. VIGNAROLI\*, R.W. ANDERSON & D.H. PASHLEY, Medical College of Georgia

3:15

*Chronic effects of set and unset sealers on the repair of osseous defects in rat tibias*

B. PETER AUSTIN\*, H.D. WALIA, K.L. ZAKARIASEN & L.A. BROCK, Marquette Univ

\* Presenter

3:30

*The evaluation of two matrix materials used in perforation repair*

ROGER J. BROWN\*, B.G. JEANSONNE & R.R. LEMON, Louisiana State Univ

3:45

*In vitro study of vertical fractures repaired with bonding agents*

JUAN C. ANGUIA\*, P.A. ROSENBERG, C. BURUIANA & F.H. KAHN, New York Univ

**PRACTITIONERS' PLATFORM II**

Honolulu Suite III, Tapa Conference Center

Moderator: GERALD N. GLICKMAN, DDS, MS, Ann Arbor, MI

2:00

*Surgical treatment of an avulsed tooth*

HOWARD L. PRANIKOFF, DDS, MScD, Ormond Beach, FL

2:15

*Treatment of refractory endodontic lesions*

GLEN S. GERDES, DMD, Bremerton, WA

2:30

*Treatment alternatives for a geminated/fused tooth*

JAY MARLIN, DMD, Worcester, MA

2:45

*Treatment "obstacles"*

GERALD N. GLICKMAN, DDS, MS, Ann Arbor, MI

3:00

*Previewing of ectopic canal exit*

SEUNG-JONG LEE, DDS, MS, Seoul, Korea

3:15

*Retreatment or surgery?*

HESHAM M. EL-TAGOURI, DMD, MDS, Buffalo, NY

3:30

*Clinical cases with unexpected outcomes*

PATRICK BOGAERTS, LSD, Brussels, Belgium



**LIMITED ATTENDANCE SESSIONS**

Limited Seating. NO standing permitted. All LAS rooms are located in the Mid Pacific Conference Center.

LAS 6 - South Pacific Ballroom I  
2 - 3 pm

*Posts: When? Why? and Which ones?*  
FREDERICK H. KAHN, DDS, New York  
Proper restoration is essential for endodontic success. Advances in bonding technology, post and core systems, and the utilization of root morphology as a guide to post selection will be presented.

LAS 7 - South Pacific Ballroom II  
2 - 3 pm

*Isolated periodontal defects: Etiology, diagnosis and treatment*  
WILLIAM T. JOHNSON, DDS, MS, Iowa City, IA  
The narrow isolated periodontal pocket can have a variety of etiologies. Establishing a definitive diagnosis permits the development of a treatment plan. This presentation will discuss the factors associated with the diagnosis and treatment of isolated periodontal defects using a case presentation format.

LAS 8 - Sea Pearl Suite I & II  
2 - 3 pm

*Clinical methodology on the endodontic management of the HIV-AIDS patient*  
FRANK R. PORTELL, DMD, MS,  
Woodbridge, VA  
With today's increasing HIV population, the endodontist must be prepared to face the formidable challenges associated with this disease. A discussion of treatment alternatives will be followed by clinical examples.

LAS 9 - Sea Pearl Suite III & IV  
2 - 3 pm

*Gaining access to calcified canals*  
GEORGE G. STEWART, DDS, Philadelphia  
As a result of an aging population, the endodontist is confronted with an increasing number of calcified chambers and canals. Over a period of many years of practice, research and teaching, Dr. Stewart has developed procedures that will aid in gaining access to a greater number of these calcified canals.

LAS 10 - Sea Pearl Suite V & VI  
2 - 3 pm

*Successful TCP plugs for perforations*  
HENRY L. HARBERT, DMD, Everett, WA  
Bleeding furcation perforations and open, draining apices necessitate mending prior to endodontics. Tricalcium phosphate plugs dependably abbreviate treatment time and are comfortable, strong, safe and inexpensive.

LAS 11 - South Pacific Ballroom I  
3:15 - 4:15 pm

*The quality of root fillings as cause for failure: Combined in vitro and in vivo aspects*  
AVIAD TAMSE, DMD, Tel Aviv, Israel  
This session will present a review of the causes for root canal treatment failures and other reasons for tooth extractions. For the first time, a positive correlation between poor root filling, endodontic failure and apical leakage of dye will be shown and illustrated by clinical cases.

LAS 12 - South Pacific Ballroom II  
3:15 - 4:15 pm

*Vertical root fractures: Etiology, diagnosis and treatment modalities*  
TIZIANO TESTORI, DDS, MD, PhD, Milan, Italy  
MARIO G. BADINO, DDS, MD, Milan, Italy  
This seminar will present a clinical study on 36 original cases of vertical root fractures. Clinical and radiographic findings, distribution according to the type of tooth and patient's age in relation to the occurrence of vertical root fractures will be covered in detail. A discussion of treatment modalities will be followed by clinical cases.

LAS 13 - Sea Pearl Suite I & II  
3:15 - 4:15 pm

*Putting the "P" into practice!*  
JULIAN R.D. MOISEWITSCH, BDS,  
Chapel Hill, NC  
FRANCOISE SELLIER-MOISEWITSCH, MSc,  
PhD, Chapel Hill, NC  
What does statistical significance mean, and when is it clinically relevant? Interpretations of p-values will be discussed as they relate to both the practitioner and the clinical researcher. The connection between p-values, power and sample sizes will be highlighted using numerous examples taken from the endodontic literature to illustrate the discussion.



## **Program, continued**

### **LIMITED ATTENDANCE SESSIONS**

Limited Seating. NO standing permitted. All LAS rooms are located in the Mid Pacific Conference Center.

LAS 14 - Sea Pearl Suite III & IV

3:15 - 4:15 pm

*Nickel-titanium endodontic instruments: An update*

KHALID M. AHMED, DDS, MSD, Detroit  
Root canal files fabricated from stainless steel alloys are stiff and can cause procedural errors in curved canals. In recent years nickel-titanium alloys have been used to fabricate root canal instruments with claims of increased flexibility and resistance to fracture. This seminar will focus on the design and uses of various nickel-titanium endodontic instruments.

LAS 15 - Sea Pearl Suite V & VI

3:15 - 4:15 pm

*The use of film holders in endodontic radiography*

STEVEN A. COHN, DDS, Sydney, Australia  
Successful endodontic treatment depends on accurate and reproducible radiographs. The use of a film holder facilitates this goal. This presentation will demonstrate the application of such devices in all clinical situations.

### **AADS SECTION MEETING**

Iolani Suite IV, Tapa Conference Center

4 - 5 pm



#### **No Smoking**

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

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

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Badges must be worn at all official AAE functions.

## **FRIDAY, APRIL 29**

### **FUN RUN**

6 - 7:30 am

Run, walk or amble along Ala Moana Park.

### **R&E PRESIDENTS' CIRCLE BREAKFAST**

Coral Ballroom III, Mid Pacific Conference Center (by invitation only)

7 - 8 am

The Distinguished Donor award will be presented at this meeting of the Presidents' Circle, the donor recognition society of the Research and Education Foundation of the AAE.

### **CONTINENTAL BREAKFAST**

Palace Lounge, Tapa Conference Center (by ticket only)

7:15 - 8 am

### **EXHIBITS**

Tapa Ballroom, Tapa Conference Center  
7:30 am - 2 pm

### **SCIENTIFIC SESSION V**

Coral Ballroom I & II,  
Mid Pacific Conference Center

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



8 - 10 am

*Management of furcation and strip perforations: Update of internal matrix concept*  
RONALD R. LEMON, DMD,  
New Orleans

Perforation defects in the furcation area often devastate the long-term periodontal prognosis. Traditional management techniques, including surgical and nonsurgical methods, often further compromise the long-term prognosis. The internal matrix concept offers many advantages to the traditional methods. A second generation of biocompatible matrix materials may further improve the prognosis for internal repair. Current research will be presented.

**SCIENTIFIC SESSION VI**

Coral Ballroom IV,  
Mid Pacific Conference Center  
Moderator: ROBERT A. UCHIN, DDS,  
Fort Lauderdale, FL

8 - 11 am  
*Endodontic microsurgery: Present and future*



S. Kim  
G. Pecora  
R. Rubinstein  
SYNGCUK KIM, DDS, PhD, Philadelphia  
GABRIELE PECORA, DDS, MD, Rome  
RICHARD A. RUBINSTEIN, DDS, MS,  
Farmington Hills, MI

Microsurgical techniques and instruments have moved endodontic surgery into a new era. Questions about the value of the microscope in endodontic surgery—superior visual access to posterior surgical sites and detection of isthmuses, microfractures and other defects—as well as the role of guided tissue regeneration in areas with substantial bone loss will be discussed. Other common concerns, including the long-term healing results with Super EBA retrofilling, will be addressed by presenting experimental results. A videotape presentation will show surgical procedures using microsurgical instruments and an ultrasonic retropreparation to illustrate what is now possible with enhanced vision under the microscope.



**Need a break?**

Complimentary coffee will be provided in the Exhibit Area on Thursday at 10:30 am and 2:30 pm and on Friday and Saturday at 7:30 and 11 am.

**Insurance Questions?**

Treloar and Heisel has been the endorsed administrator of insurance programs for the AAE for over 15 years. Stop by their booth in the Registration Area.

**GENERAL INTEREST SESSION II**

South Pacific Ballroom III & IV,  
Mid Pacific Conference Center  
Moderator: TERRY L. A. PROPPER, DDS, MS,  
Nashville, TN

8 - 10 am  
*Measuring customer satisfaction with patients and referral sources: Why and how*



E. Monroe-Cook  
J. Silversin  
ELIZABETH MONROE-COOK, PhD,  
Oak Park, IL

JACK SILVER SIN, DMD, DrPH, Cambridge, MA  
How satisfied are your referring dentists and patients with the care and service you provide? How do you know your perceptions are accurate? The AAE has developed two tools to help you gauge the true satisfaction of customers in your own practice. This program will feature the latest research effort by the AAE's Public and Professional Affairs Committee: a brand new patient satisfaction survey that is scientifically valid and reliable with national norms for patient satisfaction. Learn how you can take advantage of this new Patient Satisfaction Profile. This session will also demonstrate how you can use the Practitioner Profile the AAE has developed to determine the best ways to meet the needs of your referring dentists.

**RESEARCH SEMINARS V**

Honolulu Suite I, Tapa Conference Center  
Moderator: VAN T. HIMEL, DDS,  
Memphis, TN

8:00  
*Incisor crown retention: Effects of access cavities and subsequent restorations*  
PAUL V. ABBOTT\* & Y.C. YU, Univ of  
Western Australia

8:15  
*Effect of endodontic treatment on guided tissue regeneration*  
MING M. WANG\*, G.B. ANDERSON, L. LIMA,  
J.R. LUDINGTON, JR. & R.G. CAFFESSE,  
Univ of Texas at Houston

\* Presenter





## Program, continued

### RESEARCH SEMINARS V, continued

Honolulu Suite I, Tapa Conference Center

8:30

*Short vs. long term Ca(OH)<sub>2</sub> treatment of inflammatory root resorption*

MARTIN TROPE\*, J. MOSHONOV, R. NISSAN, P. BUXT & C. YESILSOY, Univ of North Carolina & Temple Univ

8:45

*IgG and dentin permeability*

CHIN-LO HAHN\*, B. OVERTON & Y. HAO, Virginia Commonwealth Univ

9:00

*The smear layer and bacterial penetration of radicular dentinal tubules*

ROBERT W. HAWKINSON\*, C.T. NII, E.L. JACOBSEN & R.A. MURPHY, Univ of Illinois at Chicago

9:15

*Morphometric analysis of working length determined by impedance type apex locators*

SENIA KEILA\*, H. LINN, A. KATZ & A.Y. KAUFMAN, Tel Aviv Univ

9:30

*Determination of root perforation by electronic apex locators*

ZVI FUSS\*, L. ASULIN & A.Y. KAUFMAN, Tel Aviv Univ

9:45

*Analysis of teeth with iatrogenic root perforations*

ERIC M. RIVERA\*, H. REID & J. RYTHER, Univ of Iowa

10:00

*Healing of furcal lesions repaired by amalgam or mineral trioxide aggregate*

CHAN-UI HONG\*, D.J. MCKENDRY, T.R. PITT FORD & M. TORABINEJAD, Dankook Univ, Univ of London & Loma Linda Univ

10:15

*Patient perceptions of endodontic treatment outcomes*

KENNETH L. ZAKARIASEN\*, W.K. LOBB & P.J. McGRATH, Marquette Univ & Dalhousie Univ

10:30

*Evaluation of an improved technique for testing antimicrobial activity of endodontic sealers*

MALKA SHALHAV\*, Z. FUSS & E. WEISS, Tel Aviv Univ

10:45

*Antimicrobial activity of a new endodontic sealer on streptococcus fecalis in vitro*

ZVI FUSS\*, M. SHALHAV & E. WEISS, Tel Aviv Univ

11:00

*Dose-response evaluation of peripheral morphine in endodontic patients*

KENNETH M. HARGREAVES\*, A. LEPINSKI & R.A. DIONNE, Univ of Minnesota & NIDR

11:15

*Modification of pulpal microcirculation and interdental nerve activity*

HAROLD E. GOODIS\*, J.M. WHITE & V. WINTHROPE, Univ of California at San Francisco

11:30

*Assay of metronidazole in human dental pulp and dentin after a single oral dose*

ALESSANDRO GIOVANARDI\*, J.F. CORCORAN, R. L. ELLISON & W. LOESCHE, Univ of Michigan

11:45

*Antibacterial effect of Nd:YAG laser irradiation in infected root canals*

JOSHUA MOSHONOV\*, S. YAMAUCHI, M. PETTIETTE, M. TROPE & D. ORSTAVIK, Univ of North Carolina

12:00

*The effect of KTP/532 laser on induced periapical lesions in ferrets*

SALSABYL M. IBRAHIM\*, H. TEWFIK, R. ANDERSON & M. SHARAWY, Cairo Univ

12:15

*Effect of CO<sub>2</sub> laser on surface topography and permeability of root canal dentin*

SALSABYL M. IBRAHIM\*, E. HUSSENIEN & G. ELSHAFY, Cairo Univ

\* Presenter

**RESEARCH SEMINARS VI****Graduate Student Section**

Honolulu Suite II, Tapa Conference Center

Moderator: ROBERT R. WHITE, DMD,  
Boston

8:00

*Artificial pulp chamber for in vitro evaluation of dental materials*

MARIA I. BARRIA\* & L.S.W. SPANGBERG,  
Univ of Connecticut

8:15

*A model for development of pulpal inflammation*

JOHN W. MASTERS\*, M. TORABINEJAD &  
D. ARENDT, Loma Linda Univ

8:30

*The effects of growth factors in a controlled bony lesion*

LAWRENCE J. POSNER\*, Y. DASTMALCHI,  
H. SCHILDER, D. GRAVES, J. GILLES &  
D. CARNES, Boston Univ

8:45

*Production of Interleukin-1 by polymorphonuclear leukocytes present in inflammatory periradicular tissues*

THOMAS J. DeMAYO\*, G. MILLER &  
J. HUTTER, Naval Dental School

9:00

*Inflammation increases the <sup>125</sup>I-EGF binding to the periapical lesions*

STEPHEN G. LAWSON\*, S.L. WANG,  
L.M. LIN, C.Y. WU-WANG & J.E. SKRIBNER,  
Univ of Medicine & Dentistry of New Jersey

9:15

*Evaluation of the concentrations of ICAM-1 in healthy and inflamed human dental pulp*

CYNTHIA J. COOTAUCO\* &  
C.R. RAUSCHENBERGER, Univ of Maryland

9:30

*Nitric oxide synthase markers in rat tooth following pulp exposure*

ALAN S. LAW\*, K.R. BAUMGARDNER,  
J.M. RANDALL, S.T. MELLER &  
G.F. GEBHART, Univ of Iowa

9:45

*NOS and CGRP immunoreactivity following sympathectomy and pulp exposure*

JAMES M. RANDALL\*, A.S. LAW,  
K.R. BAUMGARDNER, G.F. GEBHART &  
S.T. MELLER, Univ of Iowa

10:00

*Potential psychological variables affecting the reliability of electrical pulp testing*

MICHAEL D. CARTER\*, S. JONES,  
S. RECORD, R. WHITE, M. GOLDMAN &  
J. TENCA, Tufts Univ

10:15

*Reliability of electrical pulp testing after traumatic injuries*

ROBERTA PILEGGI\*, T. DUMSHA &  
N. MYSLINSKI, Univ of Maryland

10:30

*Pulse oximetry detection of pulpal circulation in vitro*

W. CRAIG NOBLETT\*, L. R. WILCOX,  
F. SCAMMAN, W. JOHNSON & A. ARNOLD,  
Univ of Iowa

10:45

*Effects of storage media and drying time on PDL viability*

KAREN R. LIPPS\*, T. DUMSHA &  
R. SYDISKIS, Univ of Maryland

11:00

*Anaerobic tissue dissolving ability of calcium hydroxide and sodium hypochlorite*

SHUE-FEN YANG\*, E.M. RIVERA,  
K.R. BAUMGARDNER & R.E. WALTON,  
Univ of Iowa

11:15

*Root canal file length determination using the radiovisiography monitor image*

THOMAS G. OLDAG\*, D.A. MILES &  
C.E. BROWN, Indiana Univ

11:30

*Frequency dependent blockade in mandibular anesthesia*

GREGORY J. HUTCHISON\*, T. HALCOMB,  
A. READER, M. BECK, W. MEYERS &  
R. NIST, Ohio State Univ



## Program, continued

### RESEARCH SEMINARS VI, continued

Honolulu Suite II, Tapa Conference Center

11:45

*Comparison of infiltration to intramuscular injection of ketorolac for treatment of endodontic pain*

SUSAN G. PENNISTON\* &  
K.M. HARGREAVES, Univ of Minnesota

12:00

*Medical ultrasound as an adjunct to inferior alveolar nerve block*

LAWRENCE J. HANNAN\*, A. READER,  
M. BECK, W. MEYERS & R. NIST, Ohio  
State Univ

12:15

*Nd:YAG laser: ability to prevent cervical leakage of 35% H<sub>2</sub>O<sub>2</sub>*

DEWEY TONG\*, P.A. ROSENBERG,  
D.M. GALLIN & J.P. LeGEROS, New York  
Univ

### LIMITED ATTENDANCE SESSIONS

Limited seating. NO standing permitted. All LAS rooms are located in the Mid Pacific Conference Center.

LAS 16 - South Pacific Ballroom I

8 - 9:15 am

*Apexogenesis and apexification: Recalling 440 cases over a period of 20 years*

JEAN-MARIE LAURICHESSE, DDS, MS, Paris  
Since violence and accidents generate more and more dental fractures, apexogenesis and apexification are still used in current practice. History and present status of these techniques will be discussed through clinical cases as well as the prognosis of the treatment. Clinical procedures will be shown with results appreciated over a period of 20 years.



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LAS 17 - South Pacific Ballroom II

8 - 9:15 am

*The restoration of endodontically treated teeth*

L. BRUCE BROWN, DDS, San Diego

The subsequent restoration of an endodontically treated tooth contributes greatly to the function, esthetics and long term success of the patient's treatment. The function of the dowel-core system as it relates to diagnosis and treatment planning will be presented, and the various restorative techniques will be reviewed as to materials, preparation steps and respective applications. Included will be a clinical review of special situations and restorative failures.

LAS 18 - Sea Pearl Suite I & II

8 - 9:15 am

*Endodontic instrument guidance and file-stiffening through projected canals*

C. JOHN MUNCE, DDS, Santa Barbara, CA

Actual physical projection of canal orifices from chamber floor to cavo-surface is now possible. Using a simple device and instruments and materials familiar to endodontists, this seminar demonstrates how canal projection quickly provides pre-treatment build-ups, bypass of canal obstructions and reliable endodontic instrument guidance, simplifying therapy without compromise.

LAS 19 - South Pacific Ballroom I

9:30 - 10:45 am

*Tidbits, tips and tricks for thermoplasticized gutta-percha*

GERALD N. GLICKMAN§, DDS, MS,

Ann Arbor, MI

WILFRED C. WEINSTEIN§, DMD,

Vancouver, Canada

Contemporary thermoplasticized gutta-percha systems have their own unique technical nuances, requiring the clinician to have a thorough understanding of them in order to achieve mastery. This seminar will highlight these systems and present clinical tips and tricks for their effective usage.

\* Presenter

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

LAS 20 - South Pacific Ballroom II  
9:30 - 10:45 am  
*Management of fascial space infections of odontogenic origin*

JEFFREY W. HUTTER, DMD, Bethesda, MD  
This presentation will discuss the principles involved in examining and treating patients with dentoalveolar infection. Emphasis will be on patient assessment, culture and sensitivity; incision and drainage; antibiotic therapy; and supportive care.

LAS 21 - Sea Pearl Suite I & II  
9:30 - 10:45 am  
*Special endodontic considerations for Chinese patients*

LING H. CHUEH, DDS, MS, Taipei, Taiwan  
The dental anatomy between Mongolian and Caucasian can have variations, such as dens evaginatus, C-shape root canal systems and three-rooted lower molars. These will be discussed regarding their implications, treatments and complications.

#### POSTER CLINICS

Tapa Ballroom, Tapa Conference Center  
8:00 - 11:00 am

- PC 1 *Antimicrobial effect within dentinal tubules of three cavity lining materials*  
NICHOLAS P. CHANDLER, BDS, MSc, Dunedin, New Zealand
- PC 2 *The sealing ability of a gallium alloy as retrofilling material*  
NORIYASU HOSOYA, DMD, PhD, Chicago
- PC 3 *Organic substance dissolving ability of NaOCl paste*  
ICHIROH KATSUUMI, DDS, PhD, Tokyo
- PC 4 *Clinical study of electronic determination of working length using relative values of frequencies*  
SHUJI MEZAWA, DDS, PhD, Tokyo
- PC 5 *Sequential microvascular changes during osseous healing after experimental apicoectomy in dogs*  
RONG-TAI ROAN§, DDS, Kaohsiung, Taiwan

PC 6 *Root canal system of mandibular permanent molars in a Chinese population*  
WEN-JYH ROU§, DDS & MIRNG-HAUR DIAU, DDS, Kaohsiung, Taiwan

PC 7 *SEM study of root canal surface with calcium hydroxide dressing*  
HONG-MING TANG, BDS, Taipei, Taiwan

PC 8 *Root canal obturation methods on blunderbuss-shaped canal after apexification*  
TAMIYUKI TSUZUKI, DDS, PhD, Tokyo

PC 9 *Monoinfected periapical tissue responses in gnotobiotic rats*  
KEN-ICHI UENO, DDS & HIDEAKI SUDA, PhD, Tokyo

#### TABLE CLINICS

Tapa Ballroom, Tapa Conference Center  
8:00 - 11:00 am

- TC 1 *Treatment of root perforations with Ca(OH)<sub>2</sub> and super EBA*  
PATRICK BOGAERTS, LSD, Brussels, Belgium
- TC 2 *Synthesized hydroxyapatite alone or combined with calcium hydroxide or calcium carbonate as an apical plug*  
SALSABYL M. IBRAHIM, BchD, MsD, Cairo, Egypt
- TC 3 *Testing rubber dam leakage*  
YI-TAI JOU, DDS, Taipei, Taiwan
- TC 4 *A new ultrasonic root canal preparation system*  
CHIIHIRO KOBAYASHI, DDS, PhD & TAKATOMO TOSHIOKA, DDS, Tokyo
- TC 5 *Simplifying vertical condensation backfills*  
JAMES B. ROANE§, DDS, MS, Oklahoma City, OK
- TC 6 *New filing technique using pulse cutting method*  
HIROKAZU HATSUYA, DDS, DMS, Tokyo



**Program, continued**

**SCIENTIFIC SESSION VII**

Coral Ballroom I & II,  
Mid Pacific Conference Center  
Moderator: JAMES L. GUTMANN, Dallas



10:15 am - 12:15 pm

*Invasive cervical resorption*  
GEOFFREY S. HEITHERSAY,  
BDS, MDS,  
Adelaide, Australia

Of significance to endodontists, periodontists and restorative dentists is this insidious and often aggressive form of external root resorption. Although the etiology is unknown, some predisposing factors have been identified, e.g. trauma, orthodontic treatment, bleaching, etc. The clinical radiological and histopathological features of this interesting and challenging process will be outlined along with the results of a specific treatment regimen.

**SCIENTIFIC SESSION VIII**

Coral Ballroom IV,  
Mid Pacific Conference Center  
Moderator: MICHAEL L. MARK, DDS,  
Eagle River, AK



11:15 am - 12:15 pm

*Three dimensional imaging in endodontics: Research, education and virtual reality*  
L. STEPHEN BUCHANAN§,  
DDS, Santa Barbara, CA

3D workstations can now reconstruct digital radiography of teeth into anatomically-correct computer models. This video presentation shows how these "virtual teeth" can be used for anatomic research, finite element stress analysis of restorative systems, instrumentation research and animated interactive educational experiences, including *flying through root canals!*

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

**GENERAL INTEREST SESSION III**

South Pacific Ballroom III & IV,  
Mid Pacific Conference Center  
Moderator: DONALD E. ARENS, DDS, MSD,  
Indianapolis

10:15 am - 12:15 pm

*Establishing the value of endodontic treatment for your patients*



E. Monroe-Cook



J. Silversin

ELIZABETH MONROE-COOK, PhD,  
Oak Park, IL

JACK SILVERSON, DMD, DrPH, Cambridge, MA  
When patients feel the fee you charge for endodontic treatment is unjustifiably high you risk dissatisfying your customers—the patients—and their referring dentists. This workshop will include a video presentation of excerpts from interviews with endodontic patients discussing their perceptions of cost and value. You will learn: 1) practical methods for demonstrating and conveying to patients the value of what you do and 2) how to enlist the help of your referring dentists in communicating to patients the value of treatment by an endodontic specialist.



**Need a break?**

Complimentary coffee will be provided in the Exhibit Area on Thursday at 10:30 am and 2:30 pm and on Friday and Saturday at 7:30 and 11 am .

**Insurance Questions?**

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**LIMITED ATTENDANCE SESSIONS**

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LAS 22 - South Pacific Ballroom I  
11 am - 12:15 pm

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

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 seminar reviews techniques and treatment approaches.

LAS 23 - South Pacific Ballroom II  
11 am - 12:15 pm

*Enucleation of large periapical lesions*  
CARL W. NEWTON, DDS, MSD, Indianapolis  
The role of the endodontist in treatment planning and the surgical treatment of large anterior periapical lesions of pulpal origin will be well illustrated with clinical cases.

LAS 24 - Sea Pearl Suite I & II  
11 am - 12:15 pm

*Endodontic extrusive management of coronal radicular injuries: A clinical approach*  
RICARDO CAICEDO, DDS, Bogota, Colombia  
Teeth with traumatic injuries at the cervical third may not offer sound tooth structure on which to place a restoration. Forced eruption is an alternative that offers benefits not available with surgery alone. Clinical cases will be presented to highlight treatment modalities.



Badges must be worn at all official AAE functions.

**AWARD LUNCHEON**

Coral Ballroom III,  
Mid Pacific Conference Center (by ticket only)  
12:30 - 2 pm

Moderator: MARSHALL D. PEIKOFF, DMD,  
MSD, Winnipeg, Canada

**Honorary Membership**



I. Kudo



F. Lentine



M. Mallefer

MRS. IRMA S. KUDO, Chicago  
MR. FRANK N. LENTINE, Romulus, MI  
DR. MICHEL MAILLEFER, Ballaigues,  
Switzerland

Honorary Membership is presented for recognition of significant contributions that have furthered the advancement of endodontics.

**Ralph F. Sommer Award**



GORAN SUNDQVIST,  
Umeå, Sweden

The Ralph F. Sommer Award is presented for recognition to the principal author of a publication of specific significance to the science and art of endodontics.



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



## Program, continued

### SATURDAY, APRIL 30

#### CONTINENTAL BREAKFAST

Palace Lounge, Tapa Conference Center  
(by ticket only)

7:15 - 8 am

#### EXHIBITS

Tapa Ballroom, Tapa Conference Center  
7:30 am - 12:30 pm

#### POSTER CLINICS

##### Graduate Student Section

Tapa Ballroom, Tapa Conference Center  
7:30 - 10:30 am

- PC 10 *Interactive teleradiology in dentistry: Efficacy and impact on patient care*  
KATHLEEN S. BOYD, DDS, Univ of North Carolina
- PC 11 *An in vitro model system for dentin resorption*  
VINCENT T. CAMMARATO, DDS, Albert Einstein Medical Center
- PC 12 *Thermafil and laterally condensed teeth: Apical bacterial microleakage*  
EDA ELBIRLIK, DDS & TARA E. ROFFE, DDS, New York Univ
- PC 13 *Effects of beta-glycerol phosphate on the mineralization and proliferation of human bone cells in culture*  
LEE D. FILLAK, DMD, Northwestern Univ
- PC 14 *Nickel-titanium hand- and engine-driven root canal preparations: A comparison study*  
ROBERT H. HALLER, DDS, Wilford Hall USAF Medical Center
- PC 15 *Lymphocytes population in relation to clinical symptoms in irreversible pulpitis*  
WOO CHEOL LEE, DDS, Seoul National Univ
- PC 16 *A qualitative SEM evaluation of root-end resections*  
MICHAEL D. PARSONS, DDS & ANDREW H. STANEK, DDS, Univ of Maryland
- PC 17 *Efficacy of dental gloves as viral barriers*  
JOHN E. PRATTE, DDS, Loma Linda Univ
- PC 18 *The effect of corrosion on two stainless steel files*  
PAUL A. SCOTT, DDS, Northwestern Univ
- PC 19 *Endodontic treatment needs in an elderly United States population*  
ROBERT F. STARLING, DDS, MPH, Univ of Connecticut
- PC 20 *Effect of Ca(OH)<sub>2</sub> dressing on the root canal walls: An SEM examination*  
RODERICK W. TATARYN, DDS, Loma Linda Univ
- PC 21 *Effects of 1, 25 dihydroxyvitamin D<sub>3</sub> on the metabolism of human osteoblast growth factors in culture*  
JEFFREY T. WALKER, DDS, Northwestern Univ
- PC 22 *IL-1 inhibits PDGF binding through PKA and PKC independent pathways*  
YU-LING YEH, DMD, Boston Univ
- PC 23 *Microbial interactions of three potential endodontic pathogens in mixed culture*  
MARVIN A. ZERR, DDS, Univ of Iowa

#### TABLE CLINICS

##### Graduate Student Section

Tapa Ballroom, Tapa Conference Center  
7:30 - 10:30 am

- TC 7 *Patterns of usage—intracanal medicaments and irrigants: A survey*  
DEBORAH E. BATTRUM, DDS & JAMES E. LEONARD, DDS, Baylor College of Dentistry
- TC 8 *Locating calcified canals*  
CURT W. BEACH, DDS & GARY G. GOODELL, DDS, Naval Dental School

- TC 9 *Using dentinal fluid for diagnostic testing in healthy and inflamed dental pulp*  
BARBARA O. BOWERSOX, DDS &  
JOHN C. DERMODY, BDS,  
Univ of Maryland
- TC 10 *Selection of the appropriate size accessory gutta percha cones to match spreaders used in lateral condensation*  
MATTHEW D. DIANDRETH, DMD &  
RICHARD A. ELLIS, BDS,  
Univ of Maryland
- TC 11 *Therapeutic applications of corticosteroids in endodontics*  
DAVID D. FABRE, DDS &  
DAVID J. HURT, DMD,  
Northwestern Univ
- TC 12 *Uses of digital subtraction radiography in endodontics*  
CHARLES R. GLOSSON, DMD,  
Wilford Hall USAF Medical Center
- TC 13 *Surgical site isolation and hemostasis*  
MICHAEL W. HUEY, DMD &  
DANIEL G. EHRICH, DDS,  
Naval Dental School
- TC 14 *Aspiration and irrigation of large periradicular lesions*  
JOHN P. LUNDGREN, DDS &  
JAMES Y.M. CHAU, DDS, MS,  
Naval Dental School
- TC 15 *Evolving endodontic nomenclature*  
KURT M. MYERS, DDS &  
ERIC T. SHUGARS, DDS,  
Northwestern Univ
- TC 16 *Where is the apex?*  
VAROOJAN Y. MIRZAYAN, DDS,  
Univ of Pittsburgh
- TC 17 *Suturing in endodontic surgery*  
CAROL S. NIEHAUS, DDS, MS &  
CHARLES M. ARITA, DDS,  
Univ of Maryland
- TC 18 *Stabident local anesthetic system*  
TIMOTHY R. ROHDE, DDS &  
JAMES J. ANTUS, DDS,  
Naval Dental School

- TC 19 *Improved eucapercha obturation technique*  
JOHN E. STUPARITZ, DDS &  
MICHAEL J. CHUTICH, DDS,  
Northwestern Univ
- TC 20 *Clinical evaluation of the surgical operating microscope*  
RAYMOND M.T. VAN DER WERF,  
DDS, Boston Univ

**SCIENTIFIC SESSION IX**

Coral Ballroom I & II,  
Mid Pacific Conference Center  
Moderator: J. CRAIG BAUMGARTNER, DDS,  
MS, PhD, Portland, OR



8 - 9:30 am

*Clinical application of dental pharmacology*  
HAROLD L. CROSSLEY, DDS,  
PhD, Baltimore

No area of oral therapeutics presents such diversity as the control of post-operative dental pain. Current medications available are discussed with a focus on indications, contraindications and mechanisms of action. New approaches to medication-controlled discomfort such as the NSAIA's and long acting local anesthetics will be presented in a clinically useful format. Local anesthetics will be compared and contrasted with regard to duration of action, toxicity, antigenicity, and systemic and local side effects.

Explore the traditional as well as the newer antibiotics and antifungal agents available to treat patients with orofacial infections. Indications and contraindications, SBE prophylaxis guidelines, and recommendations for the orthopedic prosthesis patient will be included in this informative presentation.



**Insurance Questions?**

Treloar and Heisel has been the endorsed administrator of insurance programs for the AAE for over 15 years. Stop by their booth in the Registration Area.

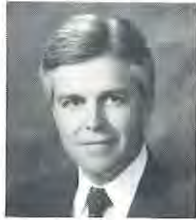




## Program, continued

### SCIENTIFIC SESSION X

Coral Ballroom IV,  
Mid Pacific Conference Center  
Moderator: BILLIE G. JEANSONNE, DDS,  
PhD, New Orleans



8 - 9:30 am

*Innovations in endodontic  
retreatment—Part I*  
CLIFFORD J. RUDDLE, DDS,  
Santa Barbara, CA

A review of root canal system anatomy and its role in endodontic prognosis is followed by an analysis of those factors commonly implicated in endodontic failure. Utilizing the documentation features of the operating microscope, a variety of techniques will be demonstrated enabling the clinician to manage a wide range of frequently encountered clinical obstacles successfully. *This session will not be taped.*



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

### GENERAL INTEREST SESSION IV

South Pacific Ballroom III & IV,  
Mid Pacific Conference Center  
Moderator: STEVEN M. SIERASKI, DDS,  
MS, Bloomington, IL

8 - 11:15 am

*Proven strategies for practice transition:  
Associateship, partnership, retirement*



R. Berning



T. Propper

RANDALL K. BERNING§, JD, LLM,  
Burlingame, CA

TERRYL A. PROPPER, DDS, MS, Nashville, TN

Panelists: MICHAEL E. DENT, DDS,  
Fairfield, CA  
GERALD C. DIETZ, SR, DDS,  
Bloomfield Hills, MI  
W. BRUCE HOWERTON, JR,  
DDS, Asheville, NC  
CAROLYN SHULMAN KERR,  
DDS, MS, Metairie, LA

In this interactive session, a panel moderated by an attorney and an endodontist will discuss proven strategies for practice transition. Strategic planning methods and implementation to assure successful practice transition will be the focus of this session. Highlights will include: 1) financial considerations for owners and associates; 2) valuation of the endodontic practice; 3) immediate buy-in versus extended associateship; 4) phased transfer versus immediate sale; 5) compensation issues; 6) break-even analysis and cash flow; and 7) contract musts: restrictive covenant, liquidated damages, non-solicitation, confidential information and right of first refusal. Audience participation is encouraged and welcomed. *This session is recommended for the new endodontist by the Membership Services Committee.*

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

\* Presenter

**RESEARCH SEMINARS VII**

Honolulu Suite I, Tapa Conference Center  
Moderator: CHARLES J. CUNNINGHAM,  
DDS, Gainesville, FL

8:00

*The effects three endodontic files have on canal shape*

VAN T. HIMEL\*, R.E. MOORE & V.E. HICKS,  
Univ of Tennessee

8:15

*Endodontic hand instruments: Cutting efficiency and instrumentation effects on curved canals*

EDGAR SCHAEFER\*, J. TEPEL & W. HOPPE,  
Univ of Muenster

8:30

*Digital comparison of three instrumentation techniques in curved root canals*

SCOTT K. BENTKOVER\* & C.S. WENCKUS,  
Univ of Illinois at Chicago

8:45

*Comparison of hand, hand/sonic and hand/mechanical instrumentation methods*

KENNETH L. ZAKARIASEN\* &  
K.A. ZAKARIASEN, Marquette Univ

9:00

*A comparison of exalibur and hand instrumentation in curved canals*

GARY S.P. CHEUNG\* & A.W.K. CHAN, Univ  
of Hong Kong

9:15

*A prototype of a root canal instrument for the preparation of curved root canals*

BENJAMIN M. BRISENO\*§, Univ of Mainz

9:30

*The comparison of four instrumentation technique effects on canal transportation*

CHAN-CHENG MA\*, Tri-Service General  
Hospital

9:45

*Forces developed during endodontic filing procedures*

HARMEET D. WALIA\*, N. NGUYEN &  
V. DHURU, Marquette Univ

10:00

*The endodontic file is a disposable instrument*

REZA B. KAZEMI\*, L.S.W. SPANGBERG &  
E. STENMAN, Univ of Connecticut

10:15

*Fatigue behavior of three prefabricated screw type post systems*

FREDERICK H. KAHN\*, P.A. ROSENBERG,  
A. SCHULMAN & M. PINES, New York Univ

**LIMITED ATTENDANCE SESSIONS**

Limited seating. NO standing permitted. All LAS rooms are located in the Mid Pacific Conference Center.

LAS 25 - South Pacific Ballroom I

8 - 9:30 am

*Transantral endodontic surgery*

JAMES A. WALLACE, DDS, MDS, Pittsburgh  
LOWELL R. GRAVES, DDS, MSD, Littleton, CO

This presentation will cover anatomy, physiology, pathology, microbiology, indications, advantages, contraindications, problems and techniques of endodontic surgery on palatal roots via a transantral approach.

LAS 26 - South Pacific Ballroom II

8 - 9:30 am

*Retrograde approaches in endodontic therapy*

SHIMON FRIEDMAN, DMD, Toronto, Canada

In this seminar various retrograde endodontic approaches will be discussed with the aim of improving the efficacy of endodontic surgery by making it more consistent with the rationale of endodontic therapy.

LAS 27 - Sea Pearl Suite I & II

8 - 9:30 am

*The anatomy of local anesthesia*

ROBERT S. RODA, DDS, MS, Scottsdale, AZ

The objective of this presentation is to review recent research that highlights anatomic variations in peri-oral structures and how this new knowledge may improve the achievement of local anesthesia.



## Program, continued

### SCIENTIFIC SESSION XI

Coral Ballroom IV,  
Mid Pacific Conference Center  
Moderator: CINDY R. RAUSCHENBERGER,  
DDS, MS, Baltimore



9:45 - 11:15 am

*Innovations in endodontic  
retreatment—Part II*

GARY B. CARR§, DDS,  
San Diego

Increasingly complex cases confronting the practicing endodontist can be a source of many frustrations. Using a case history approach, this presentation will review many of the new techniques now available that allow the practitioner to manage his or her cases at a very high level of expertise, resulting in a high sense of professional accomplishment.

### SCIENTIFIC SESSION XII

Coral Ballroom I & II,  
Mid Pacific Conference Center  
Moderator: W. PAUL RADMAN, DDS, Dallas



9:45 - 11:15 am

*Osseointegrated dental  
implants: A scientific  
perspective*

GEORGE ZARB, DDS, MS,  
Toronto, Canada

The advent of the osseointegrated implant is largely an outgrowth of basic research and longitudinally documented clinical evidence. The technique has profoundly influenced prosthodontic practice and education and a new era of therapy has evolved. This presentation will seek to reconcile current interpretations of the osseointegrated response with studies of clinical efficacy and effectiveness. *This session will not be taped.*

### LIMITED ATTENDANCE SESSIONS

Limited seating. NO standing permitted. All LAS rooms are located in the Mid Pacific Conference Center.

LAS 28 - South Pacific Ballroom I  
9:45 - 11:15 am

*Diagnosis and management of root resorption*  
GEOFFREY S. HEITHERSAY, BDS, MDS,  
Adelaide, Australia

The management of root resorption provides an exciting challenge to the clinician. The types of resorption to be targeted are 1) inflammatory—external, internal and communicating; 2) replacement; and 3) invasive cervical.

LAS 29 - South Pacific Ballroom II  
9:45 - 11:15 am

*Endodontic insurance codes: What they are  
and how to use them*

PHILIP W. COHEN, DDS, MS, Livonia, MI  
An update on the proposed new ADA endodontic codes, followed by a question and answer session on problem solving for your claims. Bring your questions.

LAS 30 - Sea Pearl Suite I & II  
9:45 - 11:15 am

*Dentine bonding: An integral part of  
endodontic practice*

JOHN G. FRASER, BDS, MDS,  
Vancouver, Canada

Dentine bonding is an integral part of modern restorative practice. This presentation will discuss the use of dentine bonding to improve the coronal and apical seal in endodontic therapy.



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

**EDGAR D. COOLIDGE LUNCHEON**

Coral Ballroom III, Mid Pacific Conference Center (by ticket only)  
11:30 am - 1:15 pm  
Moderator: JAMES L. GUTMANN, DDS, Dallas

**Edgar D. Coolidge Award**



DONALD E. ARENS, DDS, MSD, Indianapolis

HAROLD A. MAXMEN, DDS, Southfield, MI, will also receive the award this year. However, because he is in ill health, the award was presented to him prior to the meeting.

The Coolidge Award is presented annually to a member or members who have actively participated in the AAE during their professional lives and who have displayed leadership and exemplary dedication to dentistry and endodontics.

**GENERAL ASSEMBLY**

Coral Ballroom II,  
Mid Pacific Conference Center  
1:30 - 3:30 pm

**PAST PRESIDENTS' RECEPTION**

Coral Lounge, Mid Pacific Conference Center  
6:30 - 7:30 pm  
Preceding the President's Dinner Dance, this annual reception will offer a cash bar.

**PRESIDENT'S DINNER DANCE -  
"HAWAIIAN ROYAL BALL"**

Coral Ballroom, Mid Pacific Conference Center (by ticket only)  
7:30 pm - midnight  
A sumptuous Chinese feast awaits you at this year's President's Dinner Dance—an elegant Hawaiian Royal Ball complete with music to entice all ages onto the dance floor. No need for a tux or formal, just wear your island best and join us to say "Aloha!" to the 51<sup>st</sup> Annual Session of the AAE.

**SUNDAY, MAY 1**

**FAREWELL BREAKFAST**

Lanai, Tapa Conference Center (by ticket only)  
8 - 9 am





## Board & Committee Meetings

### MONDAY, APRIL 25

ABE Board of Directors, 8 am - 5 pm ..... South Pacific Board Room

### TUESDAY, APRIL 26

AAE Board of Directors, 8 am - 5 pm ..... South Pacific Ballroom I

### WEDNESDAY, APRIL 27

Clinical Practice Committee, 2 - 5 pm ..... Honolulu Suite III

Honors and Awards Committee, 2 - 5 pm ..... Honolulu Suite I

Membership Services Committee, 2 - 3 pm ..... Iolani Suite II

Public & Professional Affairs Committee, 2 - 5 pm ..... Honolulu Suite II

R&E Foundation Board of Trustees, 8 am - 5 pm ..... South Pacific Ballroom I

### FRIDAY, APRIL 29

Dental Benefits Committee, 2 - 4 pm ..... Sea Pearl Suite V

Dental Therapeutics Committee, 2 - 3 pm ..... South Pacific Board Room

Editorial Board, 7 - 8 am ..... Sea Pearl Suite III

Educational Affairs Committee, 7 - 8 am ..... Sea Pearl Suite IV

Governmental Affairs & Federal Dental Health Services Committee, 7 - 8 am ..... Iolani Suite II

International Relations Committee, 7 - 8 am ..... Sea Pearl Suite VI

Membership Insurance Committee, 7 - 8 am ..... Iolani Suite I

Professional Standards, Peer Review & Ethics Committee, 7 - 8 am ..... Iolani Suite IV

Research & Scientific Affairs Committee, 7 - 8 am ..... Iolani Suite III

### SATURDAY, APRIL 30

Past Presidents' Breakfast, 7 - 8 am ..... Alii Suite

### SUNDAY, MAY 1

AAE Board of Directors, 8 am - 1 pm ..... Honolulu Suite I



## Research & Education Foundation of the AAE

### 1994

Donald D. Antrim, President  
Wallace B. Brown  
Eva C. Dahl

**Ex Officio:** Jerome V. Pisano

### 1995

J. Craig Baumgartner  
Kent W. Cunningham  
Fredric Goodman  
John W. Harrison, President-elect  
William D. Powell  
Mahmoud Torabinejad, Secretary

### 1996

H. Groves Cooke III  
Ronald I. Deblinger, Treasurer  
Cindy R. Rauschenberger  
William F. Schroeder Jr.



## American Board of Endodontics

### 1994

M. Lamar Hicks, President  
Sandra Madison, Secretary  
Samuel O. Dorn, Treasurer

### 1995

Leif K. Bakland  
Harold E. Goodis  
Louis E. Rossman

### 1996

Ralph Bellizzi  
Robert L. Ellison  
Arthur E. Skidmore



# Alumni, Affiliates & Other Groups

## WEDNESDAY, APRIL 27

US Army Association of Endodontists, 4:30 - 6 pm ..... Iolani Suite III

## THURSDAY, APRIL 28

Albert Einstein Medical Center Alumni, 6 - 7:30 pm ..... Rainbow Suite I  
 California State Association of Endodontists, 8:30 - 10 pm ..... Honolulu Suite III  
 Christian Endodontic Society, 5 - 6 pm ..... Sea Pearl Suite IV  
 Harvard/Forsyth Endodontic Alumni Dinner, 7 - 10 pm ..... South Pacific Ballroom IV  
 International Federation of Endodontic Associations, 10 am - 12 noon ..... Rainbow Suite III  
 North Carolina Association of Endodontists, 7:30 - 8:30 pm ..... Rainbow Suite II  
 Northwestern University Dental Alumni, 6:30 - 8:30 pm ..... Rainbow Patio  
 Tufts University Endodontic Alumni, 6 - 8 pm ..... Sea Pearl Suite III  
 University of Connecticut Endodontic Alumni, 6:30 - 8 pm ..... Sea Pearl Suite II  
 University of Illinois at Chicago Endodontic Alumni, 6 - 10 pm ..... Sea Pearl Suite V & VI  
 University of Maryland/LSU Alumni, 7:30 - 9:30 pm ..... Honolulu Suite II  
 University of North Carolina Endodontics Alumni, 8:30 - 10 pm ..... Rainbow Suite II  
 University of Pennsylvania Endodontic Alumni, 6 - 8 pm ..... Halekulani Hotel

## FRIDAY, APRIL 29

Boston University Endodontic Alumni, 7:30 - 9 pm ..... Iolani Suite IV  
 California State Association of Endodontists, 7 - 8 am ..... Rainbow Suite III  
 Harry J. Healey Endodontic Study Club, 7 - 8 am ..... Rainbow Suite I  
 Iowa Endodontic Group, 6 - 8 pm ..... Iolani Suite III  
 MCV/VCU Endodontic Alumni, 5 - 7 pm ..... Iolani Suite II  
 Michigan Endodontic Alumni, 7 - 8 am ..... Honolulu Suite III  
 Oklahoma Association of Endodontists, 7 - 8 am ..... Rainbow Suite II  
 Oregon/Ohio Alumni, 6 - 8 pm ..... Iolani Suite I  
 Pennsylvania Association of Endodontists, 7:15 - 8 am ..... Palace Lounge  
 University of Washington Endodontic Alumni, 6:30 - 8:30 pm ..... Sea Pearl Suite III & IV

## SATURDAY, APRIL 30

Boston University Endodontic Alumni, 7 - 8 am ..... Iolani Suite II  
 US Air Force Endodontists, 7 - 8 am ..... Sea Pearl Suite V  
 US Navy Association of Endodontists, 7 - 8 am ..... Iolani Suite I  
 University of Detroit/Mercy Alumni, 7 - 8 am ..... Sea Pearl Suite III



## Tours

**Hawaiian Country** ..... \$67/person  
 Thursday, April 28, 8:30 am - 3 pm

**Royal Family Historical Tour** ..... \$41/person  
 Wednesday, April 27, 1 - 4:30 pm  
 Saturday, April 30, 1 - 4:30 pm

**Private Homes and Gardens** ..... \$47/person  
 (adults only please)  
 Thursday, April 28, 9 am - 12 noon  
 Friday, April 29, 9 am - 12 noon

**Stardancer Sunset Dinner Cruise** .. \$49/person  
 Thursday, April 28, 5 - 8 pm

**Whale Watch Cruise** ..... \$47/person  
 Friday, April 29, 2:30 - 4:00 pm

If you have pre-registered, your tickets will be in your registration packet. If you have not pre-registered, you may purchase any tickets that are still available at the Tour Registration desk in the AAE registration area, located in the Coral Lounge area of the Mid Pacific Conference Center. Other optional tours are also available at the Tour Registration desk.

**All buses depart from and return to the Tapa Tower Bus Departure area.**



# Exhibitors

Booth		Booth		Booth	
310	<b>Amadent</b> 1236 Brace Rd, Bldg B Cherry Hill, NJ 08034	313	<b>Excellence in Endodontics</b>	404	<b>Medidenta Int'l Inc</b> 39-23 62nd St Woodside, NY 11377
401	<b>Analytic Technology Corp</b> 15233 NE 90th St Redmond, WA 98052	315	11545 Sorrento Valley Rd	301	<b>Miles Inc Dental Products</b> 4315 S Lafayette Blvd South Bend, IN 46614
204	<b>Aseptico Inc</b> PO Box 3209 Kirkland, WA 98083	317	San Diego, CA 92121	102	<b>Moeller Microsurgical Inc</b> 7 Industrial Park Waldwick, NJ 07463
403	<b>Astra USA Inc</b> 50 Otis St Westborough, MA 01581	307	<b>General Scientific Corp</b> 77 Enterprise Dr Ann Arbor, MI 48103	107	<b>Moyco Union Broach</b> 2054 W Clearfield St Philadelphia, PA 19132
206	<b>Becker-Parkin Dental Supply Co</b>	106	<b>Global Surgical Corp</b>	207	<b>Nephron Corp-Dental Div</b> 321 E 25th St Tacoma, WA 98401
208	55 W 13th St New York, NY 10011	108	3365 Tree Court	100	<b>New Image Industries Inc</b> 21218 Vanowen St Canoga Park, CA 91303
117	<b>Block Drug Co</b> 257 Cornelison Ave Jersey City, NJ 07302	110	Industrial Blvd	109	<b>NT Co</b> 7003 Shallowford Rd Chattanooga, TN 37421
407	<b>Brasseler USA</b>	112	St Louis, MO 63122	209	<b>Orascope Research Inc</b>
409	800 King George Blvd Savannah, GA 31419	114		211	7 N Pinckney St, Ste 305 Madison, WI 53703
411	<b>Carl Zeiss Inc</b> One Zeiss Dr Thornwood, NY 10594	105	<b>H W Andersen Products Inc</b> P O Box 1050 Chapel Hill, NC 27514	304	<b>Osada Electric Co Inc</b> 8242 W Third St, Ste 150 Los Angeles, CA 90048
412	<b>Caulk/Dentsply</b> P O Box 359 Milford, DE 19963	303	<b>HealthFirst Corp</b> 22316 70th Ave W, Unit A Mountlake Terrace, WA 98043	416	<b>Premier/ESPE-Premier</b> 1710 Romano Dr Norristown, PA 19404
405	<b>Charles B. Schwed Co Inc</b> 138 Audley St Richmond Hill, NY 11418	408	<b>Hu-Friedy Mfg Co Inc</b>	111	<b>ProBusiness Systems Inc</b> 9300 Jollyville Rd, Ste 100 Austin, TX 78759
312	<b>Designs for Vision Inc</b>	410	3232 N Rockwell St Chicago, IL 60618	214	<b>Professional Results/ Tooth Slooth</b> 29 Merano Laguna Niguel, CA 92677
314	760 Koehler Ave Ronkonkoma, NY 11779	400	<b>Hygenic Corp</b>	305	<b>Profit Finder</b> 401 E Lake St Wayzata, MN 55391
116	<b>Dunvale Corp</b> 141 Union St Gilberts, IL 60136	402	1245 Home Ave Akron, OH 44310	406	<b>Quality Aspirators</b> P O Box 382120 Duncanville, TX 75138
210	<b>Encyclopaedia Britannica North America</b> 310 S Michigan Ave Chicago, IL 60604	115	<b>J Morita Corporation</b> 14712 Bentley Cr Tustin, CA 92680	414	<b>Quintessence Publishing Co</b> 551 N Kimberly Dr Carol Stream, IL 60188
205	<b>Endoco Inc</b> 5180 Park Ave Memphis, TN 38119	300	<b>JEDMED Instrument Co</b>		
309	<b>Essential Dental Systems Inc</b> 89 Leuning St S. Hackensack, NJ 07606	302	6096 Lemay Ferry Rd		
		201	St Louis, MO 63129		
		203			
		103	<b>JS Dental Mfg Inc</b> 196 N Salem Rd Ridgefield, CT 06877		
		213	<b>KComp</b>		
		215	4860 San Fernando Rd Glendale, CA 91204		
		306	<b>Kerr Mfg Co</b> 28200 Wick Rd Romulus, MI 48174		
		308	<b>Kilgore International Inc</b> 36 W Pearl St Coldwater, MI 49036		
		118	<b>Lightspeed Technology Inc</b> 5832 Auden Houston, TX 77005		

Booth

- 200 **R Chige Inc**
- 202 4531 N Dixie Hwy  
Boca Raton, FL 33431
  
- 217 **Rinn Corp/GENDEX**
- 1212 Abbott Dr  
Elgin, IL 60123
  
- 311 **Roydent Dental Products Inc**
- 1010 W Hamlin Rd  
Rochester Hills, MI 48309
  
- 104 **Schick Technologies Inc**
- 31-00 47th Ave  
Long Island City, NY 11101
  
- 216 **Seiler Instrument**
- 170 E Kirkham Ave  
St Louis, MO 63119
  
- 101 **Smith & Nephew MPL**
- 9400 King St  
Franklin Park, IL 60131

Booth

- 316 **Texceed Corp**
- 3001 Redhill Ave  
Bldg 4-104  
Costa Mesa, CA 92626
  
- 212 **Thermafil/  
Tulsa Dental Products**
- 5001 E 68th St, Ste 500  
Tulsa, OK 74136
  
- Treloar & Heisel Inc**
- 3132 Wilmington Rd  
New Castle, PA 16105  
(Registration Area)
  
- 113 **Williams & Wilkins**
- 428 E Preston St  
Baltimore, MD 21202

**NON-TECHNICAL EXHIBITS:**  
(Registration Area)

**AAE Information Center**

- AAE Career Opportunities Exchange
- AAE Products
- 1995 Annual Session Information
  
- American Board of Endodontics
- Research & Education Foundation of the AAE

**Teach'em Inc.**

160 E. Illinois St  
Chicago, IL 60611



# AAE Auxiliary

**OFFICERS**

- Chizuko Shibuya (Arnold) ..... President
- Carol Ann Belanger (Laurent) ..... President-elect
- Aimee Simon (Denis) ..... Vice President
- Shirley Novack (Harvey) ..... Secretary
- Sue Zenk (Darrell) ..... Treasurer
- Carol Fountain (Stuart) ..... Parliamentarian
- Dorothy Nitta (Lawrence),  
Carole Haga (Carl), and  
Mary Kondo (Gary) ..... Local Arrangements

**WEDNESDAY, APRIL 27**

*Lillian Pear Welcome Tea*  
Ti Leaf Suite, Mid Pacific Conference Center  
3 - 5 pm

**THURSDAY, APRIL 28**

*Board Meeting*  
Ti Leaf Suite, Mid Pacific Conference Center  
7 - 9 am

*Hospitality Suite*  
Ti Leaf Suite, Mid Pacific Conference Center  
10 am - 12 noon

**THURSDAY, APRIL 28, continued**

*General Interest Session*  
Coral Ballroom IV, Mid Pacific Conference Center  
2 - 4 pm  
Featuring Dr. Harold L. Crossley speaking on "What you always wanted to know about drugs of abuse and chemical dependency but were afraid to ask."

**FRIDAY, APRIL 29**

*Hospitality Suite*  
Ti Leaf Suite, Mid Pacific Conference Center  
10 am - 12 noon

**SATURDAY, APRIL 30**

*Auxiliary Breakfast and Fashion Show*  
Iolani Suite IV, Tapa Conference Center  
(by ticket only)  
8 - 10:30 am  
Featuring the "kimono couture" of Anne Namba

*Board Meeting*  
Iolani Suite IV, Tapa Conference Center  
10:30 - 12 noon





# 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
- Harold Gerstein ..... '93
- Henry J. Van Hassel ..... '93
- Donald E. Arens ..... '94
- Harold A. Maxmen ..... '94

## 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
- Mahmoud Torabinejad ..... '93

## RALPH F. SOMMER AWARD

- Calvin D. Torneck ..... '84
- Alfred L. Frank ..... '85
- Mahmoud Torabindjad ..... '86
- John I. Ingle ..... '87
- Leif Tronstad ..... '90
- Jens O. Andreasen ..... '91
- I.B. Bender ..... '93
- Samuel Seltzer ..... '93
- Goran Sundqvist ..... '94

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- \* Edgar D. Coolidge ..... '48
- \* W. Clyde Davis ..... '48
- \* Bernhard Gottlieb ..... '48
- \* Edward S. Hatton ..... '49
- \* Walter Hess ..... '49
- \* Hermann Prinz ..... '49
- \* Francisco Pucci ..... '49
- \* Sir E. Wilfred Fish ..... '56
- \* Birger Nygaard-Ostby ..... '58
- Mary Crowley ..... '66
- \* Ralph F. Sommer ..... '67
- Harold R. Stanley ..... '68
- Maynard K. Hine ..... '69
- \* Maury Massler ..... '71
- \* Louis I. Grossman ..... '73
- Oscar A. Maisto ..... '79
- Henry O. Trowbridge ..... '86
- David H. Pashley ..... '92
- Irma S. Kudo ..... '94
- Frank N. Lentine ..... '94
- Michel Maillefer ..... '94



# 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. Deitz, Sr ..... '89-90
- James C. McGraw ..... '90-91
- Joseph I. Tenca ..... '91-92
- Stuart B. Fountain ..... '92-93

\* Deceased

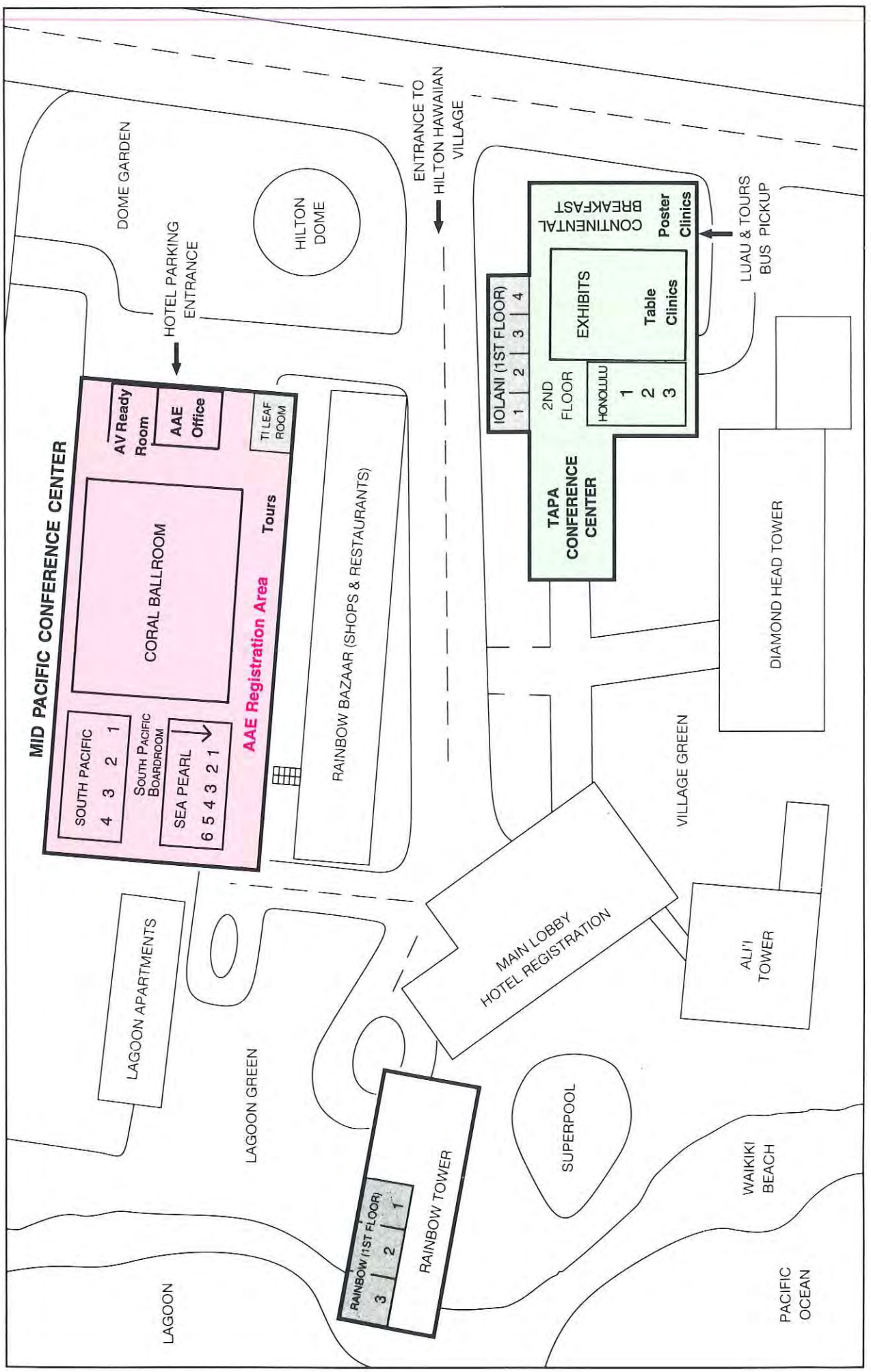


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