

40th Annual Session
American Association of Endodontists
Hollywood, Florida

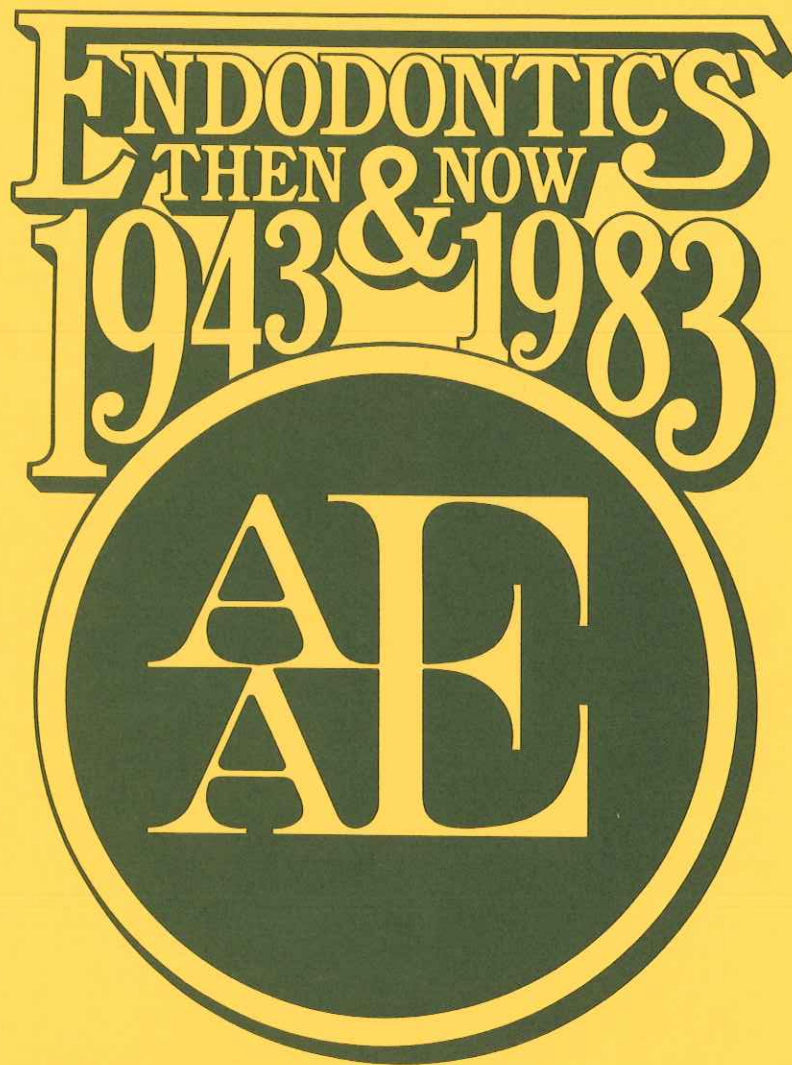


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PRESIDENT'S MESSAGE

AMERICAN ASSOCIATION OF ENDODONTISTS

It is my distinct honor and pleasure to welcome you all to sunny South Florida and the 40th Annual Session of the American Association of Endodontists. In keeping with our theme, "Endodontics: Then and Now", this year we will honor our founders from whose rich heritage we benefit in our continual study of the art, science, and practice of endodontics. We hope you will take full advantage of the myriad of activities that have been planned to make the future of endodontics even more successful than its past.

The challenge of the future will be studied in scientific presentations and continuing education courses. Special events, auxiliary activities, commercial exhibits, and a general membership meeting will fill your days and nights with hours of intellectual stimulation, relaxation, and excitement to make your participation in the 40th Annual Session a memorable event.

This special celebration has been designated an international meeting with lectures and social events to commemorate the occasion. To our members and guests joining us from all parts of the globe, we extend a hearty welcome, irashaimashite, benvindo, and bienvenida.

Our 40th Annual Session has come to fruition because of the dedicated service of our talented meeting coordinators. Years of careful planning directed by General Chairman Joe Maggio has culminated in a meeting designed to satisfy the discriminating tastes of our members. Program Chairman Bernie Grothaus has selected a group of superstar clinicians whose ability to translate their expertise into a meaningful learning experience will be self-evident. Local Arrangements Chairman Greg Galland and his many loyal colleagues from the South Florida Endodontic Study Club deserve the highest accolades of this assembled group. They have attended to the hundreds of details that enable a meeting to function smoothly. Irma Kudo, our Executive Director, has carefully guided us through a maze of floor plans, contracts, menus, and deadlines. Her expertise has enabled us to reach the level of excellence we are experiencing.

Finally, to our clinicians, members, and staff who have toiled above and beyond the call of duty for this 40th Annual Session, I offer my personal thanks. Without your dedication, this meeting could not offer the educational and recreational quality we have come to expect.

NOAH CHIVIAN, DDS
President



Noah Chivian
President



Donald E. Arens
President-Elect



Stephen F. Schwartz
Vice-President



Michael A. Heuer
Secretary



Charles J. Cunningham
Treasurer



Irving J. Naidorf
Editor

Board of Directors

1983

Lester M. Breen
Bernard J. Grothaus

1984

Stephen Cohen
Joseph D. Maggio
Herbert Schilder

1985

Leif K. Bakland
Garth A. James
Carl L. Tinkelman

Ex Officio Members of Board of Directors

Immediate Past-President: Henry J. Van Hassel
Executive Director: Irma S. Kudo

WELCOME

I would like to extend a warm and sunny Florida welcome to our 40th anniversary annual session. The members of your Program Committee have worked very hard to design an excellent program that will provide a combination of historical background, current ideas, and future prospects in both the clinical and scientific areas of endodontics. Our speakers and guests from abroad will add an international flavor as well as an opportunity to exchange ideas. Also, the seminars offered by the Auxiliary will give this year's program an added dimension. The social and sport events were arranged to entice and encourage everyone's participation in a well-balanced experience.

My personal thanks are extended to all the Program Committee chairmen and members for all the input, cooperation, and energies they expended to make this year's meeting successful. I must give special thanks to Noah Chivian and Joe Maggio for the opportunity and support given to me and all members of my committee. A debt of gratitude is owed to Irma Kudo and our Central Office staff for their guidance, coordination of details, and untiring efforts, which have made my job so much easier.

Let's all join together and make this a super meeting.

BERNARD J. GROTHAUS, DDS
Program Chairman

1983 ANNUAL SESSION COMMITTEE



Joseph D. Maggio
General Chairman



Bernard J. Grothaus
Program Chairman

Program

Research Seminars	Melvin Goldman
Table Clinics	Robert Zelikow
Endodontic Roundtable Seminars	Mitchell Levine, chairman
	Herb H. Borsuk, co-chairman
Educational Resources	Richard E. Walton
Projected Clinics	R. Denby Lewis
Sunday Seminar	Manuel I. Weisman, chairman
	William E. Harris, co-chairman
Continuing Education	Jerry Taintor
Scientific Session Moderators	Joel L. Dunsky
Printed Program	Irma S. Kudo

General Arrangements

Local Arrangements	Gregory C. Galland, chairman
Registration	Samuel O. Dorn
Meal Functions/Banquet	James B. Satovsky
Hosts	Robert E. Powell
Ushers/monitors	Seth Shapiro
Signs	Paul D. Eleazer
	Sy Weiner
Special Events	Stephen E. Morrow
Technical Exhibits	B. Harvey Wiener
	Irma S. Kudo
	Richard C. Burns, Advisor
Audio-Visual	Stephen Cohen, chairman
	Melvyn D. Taylor, co-chairman
Special Advisor	Robert S. Mullaney
Hospitality/Information Center	Jay C. Green
International	Robert Uchin

AAE Auxiliary

Chairperson	Dana Mullaney
Co-Chairperson	William C. Stiefel

GENERAL MEETING INFORMATION

The Diplomat Hotel is the headquarters hotel for the 40th Annual Session.

AAE Headquarters Office

The Headquarters Office is located in the Windsor Room of the Diplomat Hotel. It will be staffed by Central Office personnel - Laura Cancilla, Claudia Argyris, Ellen Beals, Letty Catrambone and members of the Annual Session Committee. Office hours are 8:00 am-6:00 pm, Wednesday-Friday; 8:00 am-12:00 noon on Saturday.

General Registration - Scheherazade, mezzanine level

Wednesday 11:00 am - 6:00 pm
 Thursday 8:00 am - 5:00 pm
 Friday 8:00 am - 5:00 pm
 Saturday 8:00 am - 12 noon

AAE Members (after March 1)	\$200 (includes Welcome/Fellowship Reception, Friday and Saturday luncheons, one full breakfast, three continental breakfasts, one ticket to the Birthday Party Dinner Dance)
AAE Associate Members	\$250 (same as above)
AAE Student Members	\$ 50 (Welcome/Fellowship Reception, scientific sessions)
Non-Member Professional	\$250 (All scientific sessions)
Non-Member Students	\$100 (All scientific sessions)
Dental Auxiliary	\$ 30 (All scientific sessions)
Spouses	\$ 30 (Welcome/Fellowship Reception, hospitality suite)

Exhibits

The exhibits are located in the Regency North Ballroom.

Exhibit hours are:

Thursday 8:00 am to 5:00 pm
 Friday 8:00 am to 5:00 pm
 Saturday 8:00 am to 1:00 pm

Hospitality/Information Center

If you wish to contact an attendee during the day, or if you would like information pertaining to local attractions, restaurants, etc., please check with the Hospitality/Information Center located in the exhibit area on Thursday and Friday (10 am-5 pm) and Saturday (10 am-12 N).

Endodontic Roundtable Seminars

Tickets reserved in advance are enclosed in each doctor's registration packet. To register for an open Endodontic Roundtable Seminar, or to exchange tickets, the ERS Desk is located in the AAE registration area on the mezzanine level.

Cassette Tape Recordings

Associated Meeting Services will record many of the sessions. The cassette tapes are available for purchase at the Associated Meeting Services booth located in the foyer of the Convention Hall.

Speaker Ready Room

Program participants are urged to review their AV material in the Speaker Ready Room, 3137, prior to their presentation, to avoid possible problems that may occur.

Saturday Dinner Dance

Your table selection for the Saturday Birthday 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 make up a party, you must present a voucher for each person in your group in order to reserve the space. No exceptions will be made.

Smoking

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

ADA Continuing Education Registry

Individuals* whose constituent societies, federal dental service or state boards of dentistry participate in the ADA Registry program will receive continuing education credits as follows:
 5 credits for general attendance at Annual Session. This includes attendance at table clinic and/or exhibits.
 Hour-for-hour credit for attendance at a scientific presentation of at least one hour's duration. This must be of a scientific or clinical nature.

A separate form for each presentation attended, as well as a separate form for general attendance, should be completed in detail, and deposited in the special box located in the AAE Headquarters Office.

**Refers only to individuals from Connecticut, Georgia, Maine, Massachusetts, Minnesota, New Hampshire, North Dakota, Rhode Island, Tennessee, Vermont, US Army, Veterans Administration.*

Academy of General Dentistry

Members of the Academy of General Dentistry may have their course forms validated at the AAE Headquarters Office.

**BADGES MUST BE WORN
 AT ALL OFFICIAL AAE FUNCTIONS**

PROGRAM

MONDAY, APRIL 18

9:00 am- **ABE DIRECTORS' MEETING**
9:00 pm **Congress**

TUESDAY, APRIL 19

8:00 am- **ABE ORAL EXAMINATIONS**
6:00 pm **Secretariat, Congress, Courier, Delegate**

8:00 am- **E & M FOUNDATION TRUSTEES' MEETING**
5:00 pm **Lower Sky Room, East Building**

12:00 Nn **E & M FOUNDATION TRUSTEES' LUNCHEON**
Upper Sky Room, East Building

WEDNESDAY, APRIL 20

8:00 am- **ABE ORAL EXAMINATIONS**
6:00 pm **Secretariat, Congress, Courier, Delegate**

8:00 am- **AAE BOARD OF DIRECTORS' MEETING**
5:00 pm **Lower Sky Room, East Building**

12:00 Nn **AAE BOARD OF DIRECTORS' LUNCHEON**
Upper Sky Room, East Building

CONTINUING EDUCATION COURSES

9:00 am COURSE #1 (Dr. Leon Lefer) **Regency South**
COURSE #2 (Surgery Workshop)
Convention Hall C

COURSE #3 (The Three "Fs") **Regency East**
CONTINUING EDUCATION (Japanese), **Caucus**
CONTINUING EDUCATION (Spanish), **Capitol**

(Advance registration required for all continuing education courses)

11:00 am **REGISTRATION OPENS**
Scheherazade, mezzanine level

7:30 pm- **WELCOME/FELLOWSHIP RECEPTION**
10:30 pm **Poolside** (by ticket only)

IMPORTANT NOTICE

Be sure to exchange your voucher by 5:00 pm Thursday and reserve a seat for the Saturday Birthday Dinner Dance. Attendance guarantee to the hotel must be made by 5:30 pm.

THURSDAY MORNING, APRIL 21

8:00 am **REGISTRATION and EXHIBITS OPEN**

OPENING SESSION BREAKFAST
Convention Hall (by ticket only)

8:15 am Welcome: NOAH CHIVIAN,
AAE President
JOSEPH D. MAGGIO,
General Chairman
BERNARD GROTHAUS,
Program Chairman
GREGORY C. GALLAND,
Local Arrangements Chairman

Speaker: BURTON H. PRESS,
ADA President

Topic: Endodontics: Then & Now—Tomorrow
Are We Obturating the Future?

■ SCIENTIFIC SESSION I

Regency West

Moderator: ALFRED L. FRANK, DDS, Los Angeles

10:00 am **CALCIUM HYDROXIDE UPDATE**
Calcium hydroxide in endodontic therapy—an update
LEIF TRONSTAD, DMD, PhD, Philadelphia and
RAYMOND T. WEBBER, DDS, MS, Gainesville

As calcium hydroxide has become a popular agent in endodontic therapy, this informative session will focus on state-of-the-art procedures and possible misconceptions about this medicament.

11:30 am Questions and answers

RESEARCH SEMINARS I — GRADUATE SECTION **Capitol**

Moderator: MELVIN GOLDMAN, DDS, Boston

10:00 am A study of the cutting efficiency of seven brands of endodontic files in linear motion

JOHN G. NEWMAN, DDS, MS, Marquette University

A custom-designed apparatus was developed to evaluate the cutting ability of endodontic files in linear motion. Five recently introduced brands from different manufacturers were compared with two traditional K-type files; sizes #20, #25, and #30 instruments were tested. Cutting efficiency was measured by the depth of cut in a bovine bone specimen after 3-minute periods.

10:15 am A clinical study of the effectiveness of occlusal relief in reducing interappointment pain

*JOHN L. CREECH, III, DDS, and RICHARD E. WALTON, DMD, MS, Medical College of Georgia

Post-instrumentation, endodontic interappointment pain levels are compared for teeth taken 0.5 mm out of occlusion and teeth given only mock occlusal relief (left in occlusion) in this randomized, single-blind study. Results have definite clinical implications.

10:30 am Resorption of endodontic sealer implanted subcutaneously in rats

*SALIM P. SUMAR, BDS, MS, Halifax, Canada; JOHN HEELEY, BLS, MSHS, Forsyth Dental Center; and JOHN L. GIUNTA, DMD, MS, Tufts University

Resorption of endodontic sealers (AH-26, Endomethasone, ZOE, Cavit, Hydron, Kerr's sealer) subcutaneously implanted in rats were assessed by loss in weight, radiopacity, and histologically from two to 112 days.

10:45 am Cytotoxicity study of sodium deoxycholate: a possible new endodontic irrigating solution

*MARK J. KARPMAN, DDS; STEVEN R. JACOBY, DDS; and BARRY ELGORT, DDS, St. Luke's Roosevelt Hospital Center

This study evaluated the cytotoxicity of a possible new endodontic irrigating solution. Sodium deoxycholate, a natural occurring bile salt in humans, has been shown to neutralize endotoxin. In this study, subcutaneous injection in rats of 0.1% sodium deoxycholate elicited little or no inflammatory response. In comparison, 1.0% sodium hypochlorite caused severe inflammation.

11:00 am A comparative study of the efficiency and efficacy of three different techniques for the instrumentation of root canal systems utilizing silicone models and the scanning electron microscope

BRIAN D. JAFINE, DDS, Tufts University

To determine if a specific technique would produce improved chemomechanical cleaning of the root canal systems, the efficacy and efficiency of three different instrumentation techniques—hand instrumentation (K-type and Hedstrom files); hand instrumentation (Burns' Unifiles); and R & R Dynatrak system (engine-driven Unifiles)—were investigated.

11:15 am Endodontic pain: a comparison of dexamethasone and placebo

*GORDON MARSHALL, DDS, and RICHARD E. WALTON, DMD, MS, Medical College of Georgia

This study determined if intramuscular injection of dexamethasone, a steroidal anti-inflammatory agent, aided in the reduction of post-endodontic treatment pain when compared with a placebo. Patients were randomly selected.

11:30 am An investigation of the torsion and bending properties of endodontic files

JEFFEREY D. KRUPP, DDS, MS, Marquette University

Using experimental procedures based on American Dental Association Specification No. 28, the torsion behavior and cantilever bending properties were evaluated for five recently introduced brands of endodontic files and two traditional K-files (Sizes #10, #15, #20, #25, and #30 were tested).

10:00 am- **ENDODONTIC ROUNDTABLE SEMINARS**
12:00 Nn (Pre-registration required.)

ERS 1 - Room 3141

The endo-antral syndrome

HOWARD S. SELDEN, DDS, Bethlehem, PA

ERS 2 - Room 3143

Beyond apical surgery

L. STEPHEN BUCHANAN, DDS, Santa Barbara, CA

ERS 3 (Spanish) - Room 3145

Microscopic comparison of three different endodontic obturation techniques

JOSE LUIS MEMBRILLO, DDS, Mexico City

ERS 4 - Room 3147

Utilization of dental auxiliaries in endodontic practice

WAYNE H. PULVER, DDS, Willowdale, Canada

ERS 5 - Room 3149

Update on the restoration of endodontically treated teeth: interdisciplinary relationships

KENNETH S. SEROTA, DDS, MMSc, Mississauga, Canada

ERS 6 - Room 3151

Pulpal considerations in crown fractures

LEIF K. BAKLAND, DDS, Loma Linda, CA

ERS 7 - Room 3153

Strange endodontic encounters of all kinds

DUDLEY H. GLICK, DDS, Beverly Hills, CA

ERS 8 - Room 3154

New approaches to obturation of the root canal system

ALVIN A. KRAKOW, DDS, Boston

The following will be held on the second floor (32 level—Tower).

ERS 9 - Room 3237

Evaluation of post/core design for the endodontist: a prosthodontist's viewpoint

MARSHALL D. FAGIN, DDS, Williamsville, NY

ERS 10 - Room 3239

Intraligamentary anesthesia: state-of-the-art in selective anesthesia for diagnosis

DENIS E. SIMON, III, DDS, MS, Scott AFB, IL

ERS 11 - Room 3241

Local anesthesia by ligamental and intraseptal injection

SYNGCUK KIM, DDS, PhD, New York

ERS 12 - Room 3243

Let's discuss your emergency treatment!

CHARLES J. CUNNINGHAM, DDS, Lexington, KY

■ **Simultaneous translation from English into Spanish and Japanese.**

* **Presenter**

ERS 13 - Room 3245

Intraligamentary anesthesia: no block needed
JOSEPH J. WILLIAMS, DDS, Boston, MA

ERS 14 - Room 3247

The importance of the apical sealing in endodontic surgery: a clinical report of 50 cases
MARC-ANDRE MORAND, DDS, MS, Quebec, Canada

ERS 15 - Room 3249

Surgical reverse filling failures
HAROLD GERSTEIN, DDS, Milwaukee, WI

ERS 16 - Room 3250

Endodontic surgery: indications and technique
GIORGIO M. LAVAGNOLI, MD, DDS, Milano, Italy

ERS 17 - Room 3251

An update on analgesics
MICHAEL MILES, DDS, Milwaukee, WI

ERS 18 - Room 3253

Taking the "heat" out of bleaching
WILLIAM F. FRECCIA, DDS, MS, Fayetteville, NC

ERS 19 - Room 3254

A new method of bleaching vital teeth with pathological discoloration
VINCENTE TORRES, MD, DDS, Valencia, Spain

ERS 20 - Room 3225

Endodontic-periodontic syndrome: diagnosis and treatment
IRVING H. SINAI, DDS, Philadelphia

DON'T MISS THE BIRTHDAY PARTY ON SATURDAY

Join in the fun as you dine, dance and are treated to an assortment of party favors and extra-special surprises.

Be sure to exchange your voucher by 5:00 pm Thursday to reserve your seat. No exceptions can be made.

BADGES MUST BE WORN AT ALL OFFICIAL FUNCTIONS

SMOKING

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

THURSDAY AFTERNOON, APRIL 21

Noon

BUFFET LUNCHEON

Convention Hall (By ticket only)

SCIENTIFIC SESSION II

Regency West

Moderator: JOHN I. INGLE, DDS, Palm Springs, CA

FUTURE SHOCK

1:30 pm Thermanic condensation: the evolution of a new technique

JOHN T. McSPADDEN, DDS, Johnson City, TN

By integrating conventional endodontics with innovative bioengineering, the framework for new endodontic systems has been provided. Research has shown thermanic condensation to be a viable technique for obturation that provides thorough biomechanical preparation of the canal, especially in light of recent improvements in technique and instrument design. Each facet of thermanic condensation will be discussed.

2:00 pm Injectable thermoplastic gutta-percha

JAY MARLIN, DMD, Worcester, MA

This innovative device for using gutta-percha in both non-surgical and surgical cases is clinically sound and at least equivalent to the best gutta-percha techniques currently available. Used successfully in thousands of cases, injectable thermoplasticized gutta-percha will be explained in-depth.

2:30 pm Endosonic endodontics

HOWARD MARTIN, DMD, Silver Spring, MD and
WALTER T. CUNNINGHAM, DDS, MS, MA, Annapolis, MD

A new rapid, efficient synergistic method has been devised by which practitioners can perform endodontics that is both biologically sound and expeditious. Characteristic of the system, such as its combination of ultrasound, flow-through irrigation, and irrigation, and endosonic files and diamonds will be presented step-by-step.

3:00 pm The future of endodontics

HERBERT SCHILDER, DDS, Boston

Despite the fact that endodontic clinicians and scholars still debate various treatments of endodontic problems for which solutions have long since been established, the principles for success in modern endodontics, fortunately, are simple; treatment procedures are well codified; and results are predictable. This presentation will illustrate techniques for cleaning, shaping, and root canal obturation, which make endodontic treatment simple, comfortable, and predictably successful.

3:30 pm Laterally condensed gutta-percha—the standard for excellence
FRANKLIN S. WEINE, DDS, MSD, Chicago
Laterally condensed gutta-percha is the most popular canal filling method currently used in the United States. In the past 40 years, many new techniques have been suggested. Yet, there is always a return to the lateral condensation method because it remains the standard for excellence by which other methods are compared. This popular and traditional technique will be outlined in detail.

4:00 pm Questions and answers

RESEARCH SEMINARS II Capitol

Moderator: JOSEPH I. TENCA, DDS, MA, Boston

1:30 pm Bupivacaine anesthesia—a clinical trial for endodontic therapy
*JOEL L. DUNSKY, DDS, and PAUL A. MOORE, DMD, PhD, Harvard School of Dental Medicine

In this double-blind, clinical trial, 32 patients were randomly assigned to two groups of 16 and administered 0.5% bupivacaine (1/200,000 epinephrine) or 2% lidocaine (1/100,000 epinephrine) for endodontic therapy. The onset and profundity of anesthesia were similar for the two groups. However, the bupivacaine group had prolonged anesthesia after treatment and a significant decrease in postoperative pain.

1:50 pm The radiographic detection of periapical lesions in dogs
T.R. PITT FORD, BDS, Guy's Hospital Dental School, London, England
As good correlation could avoid the need for time-consuming histologic preparation, this investigation sought to correlate the radiographic examination of root-filled teeth with the histologic examination.

2:10 pm A scanning electron microscopic analysis of posts and cores cemented with resin
*MELVIN GOLDMAN, DDS, and RUSTAM DeVITRE, DMD, Tufts University

Research presented a year ago reported that when the smeared layer was removed before cementation of a prefabricated serrated post, the retention was greatly enhanced. To determine the reason for this enhancement, plastic posts were cemented with unfilled resin and without the smeared layer removed. Teeth were decalcified and dissolved away, leaving a plastic model that was examined under the scanning electron microscope.

■ Simultaneous translation from English into Spanish and Japanese.

* Presenter

2:30 pm Pulp biopsies from teeth associated with periapical radiolucency

*LOUIS LIN, DMD, PhD; FRANCIS SHOVLIN, DDS, MS; JOSEPH SKRIBNER, DDS, PhD, New Jersey Dental School; and KAARE LANGELAND, DDS, PhD, University of Connecticut Health Center

This study investigated clinically and histopathologically the pulps from teeth associated with periapical radiolucency. Pulp tissue from 50 cariously involved teeth with periapical radiolucency and requiring root canal therapy was carefully extirpated with broaches. Before extirpation radiographs, chief complaints, clinical signs and symptoms were recorded. Serial section of 6 μ m were selectively stained with H&E and Brown and Brenn.

2:50 pm Replantation of enzyme treated teeth in monkeys

ALAN J. NEVINS, DDS, Nassau County Medical Center

Root segments in non-human primate teeth were replanted after a 3-hour extra-alveolar time period. Root surface decalcification with subsequent enzyme deletion of glyco-proteins and cross-linking of cementum collagen resulted in little or no root resorption for up to three months after replantation. Saline-treated control roots showed moderate resorption. The results of long-term studies will also be presented.

3:10 pm A theoretical mechanism of action of calcium hydroxide
CHRISTEN J. NIELSEN, DMD, MS, Albuquerque, NM

A theoretical mechanism of action of calcium hydroxide will be presented. In normal hard tissue formation, the organic matrix undergoes a period of maturation during which time lysyl hydroxylation and subsequent glycosylation decreases. It is suggested that glycosylation may interfere with the creation of collagen-phosphoprotein conjugate responsible for initiation of mineralization. By inhibiting lysyl hydroxylation, calcium hydroxide may decrease levels of glycosylation; thereby facilitating formation of the collagen-phosphoprotein conjugate and aiding mineralization.

NEED INFORMATION ABOUT LOCAL ATTRACTIONS?

Local Committee members will help to make your stay a more enjoyable one. Visit the Hospitality/Information Booth #5, Regency North Ballroom. List of recommended restaurants also available at the booth.

VISIT THE TECHNICAL EXHIBITS

PROJECTED CLINICS I

Regency South

Moderator: MICHAEL McKEE, DMD, MS, Chapel Hill, NC

- 1:30 pm Coronal build-up of degraded teeth before endodontic treatment as well as a simplified method of constructing cast core and dowel

HENRY KAHN, DDS, Palm Springs, CA

The importance of using the rubber dam in endodontic therapy has been well documented. A badly broken down tooth or one with a horizontal fracture often make its use impossible. This presentation will describe a method of salvaging these teeth. Special care is needed when restoring an endodontically treated tooth. Coronal radicular stabilization is of utmost importance. This presentation will discuss a restorative method based on principles formed years ago yet ignored by many practitioners today.

- 2:00 pm Intraligamentary anesthesia: state-of-the-art in selective anesthesia for diagnosis

DENIS E. SIMON, III, DDS, MS, Scott AFB, IL

The use of selective anesthesia as a diagnostic tool has been reserved for the "last resort" in cases of advanced pulpalgia and referred pain. This presentation will demonstrate the technique and show how it is invaluable in localization of referred pain and also as supplemental anesthesia in certain cases.

- 2:30 pm Decompression of large periapical cystic lesions

ELMER J. NEAVERTH, Jr., DDS, Washington, DC

The removal of extensive periapical radiolucent lesions by surgical intervention could result in postsurgical sequelae, such as devitalization of adjacent teeth, loss of bony support, patient discomfort, and, on occasion, paresthesia. An alternate approach, which has been found useful in handling some problem cases during endodontic therapy as well as those cases that were being considered for periapical surgery, will be presented.

- 3:00 pm Orthodontic extrusion of endodontically treated teeth

PHILIP D. DELIVANIS, DDS, MA, Louisville, KY

This presentation will cover the indications, advantages, and disadvantages of orthodontic extrusion of compromised teeth. Different techniques will be presented using fixed and removable appliances.

- 3:30 pm Functional splinting for traumatized teeth

DONALD D. ANTRIM, DDS, MS, MA, Bethesda, MD

Various techniques are used for repositioning and stabilizing traumatically luxated or avulsed teeth. This projected clinic will focus on a splinting technique that uses a monofilament nylon line and acid-etched resin for stabilization. It is believed this technique allows physiologic movement at the same time the tooth is held in proper alignment in the dental arch. This functional movement may retard or eliminate the occurrence of subsequent replacement resorption (ankylosis).

- 4:00 pm Success and failure in endodontics—a portrait of false expectations / use of the panoramic radiology in endodontics

RALPH BELLIZZI, DDS, APO New York

Success and failure in endodontics is explored by reviewing the classic literature that demonstrates the basic criteria of success and failure. However, through the medium of clinical case presentations and long-term recall, the classic criteria are challenged. The question is then raised concerning false expectations on both the clinical side and the patient's perceptions of what success is. This presentation is directed toward group presentation.

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

- 7:00 pm **BUFFET DINNER CRUISE**
Diplomat Dock-West Building (By ticket only)

NEW MEMBER?

Visit the New Member Information Booth #39, Regency North Ballroom.

VISIT THE CAREER OPPORTUNITY EXCHANGE BOOTH #40, REGENCY NORTH BALLROOM.

FRIDAY MORNING, APRIL 22

6:30 am **Fun Run**

Buses leave from hotel entrance at 6:30 am

8:00 am **CONTINENTAL BREAKFAST**

Convention Hall A (By ticket only)

8:00 am **EXHIBITS and REGISTRATION OPEN**

8:30 am **ENDODONTIC ROUNDTABLE SEMINARS**

& The following roundtable seminars will be

10:30 am presented twice—at 8:30 am and again at 10:30 am.
Pre-registration required. Tickets still available may be obtained from ERS Information Desk.

ERS 21 and ERS 22 - Room 3141

Tooth out! Tooth in!

Rapid and efficient splinting of luxated teeth

MANUEL I. WEISMAN, DDS, Augusta, GA

ERS 23 and ERS 24 - Room 3143

Restoration of endodontically treated teeth:
a common sense approach

ALBERT C. GOERIG, DDS, MS, APO New York

ERS 25 and ERS 26 - Room 3145

In the lighter vein—sedation for the apprehensive patient

ELIE M. WOLFSON, DDS, Willowdale, Canada

ERS 27 and ERS 28 - Room 3147

Endodontic complexities

MICHAEL J. SCIANAMBLO, DDS, San Rafael, CA

ERS 29 and ERS 30 - Room 3149

Preparation of extremely curved canals

FRANKLIN S. WEINE, DDS, MSD, Chicago

ERS 31 and ERS 32 - Room 3151

Unusual procedures in endodontic surgery—the last
alternative

H. ROBERT NAGEL, DDS, Framingham, MA

ERS 33 and ERS 34 - Room 3153

The end of the root canal is more than reaching the apex
(post endodontic restorations)

LAWRENCE B. GOLDMAN, DMD, Worcester, MA

ERS 35 and ERS 36 - Room 3154

Dental trauma, the pulp, and endodontic treatment

PAUL A. ROSENBERG, DDS, New York

CASSETTE TAPES OF SCIENTIFIC SESSION

are available from Associated Meeting Services, located
in Convention Hall foyer.

The following will be presented on the second floor (32
level-Tower Section).

ERS 37 and ERS 38 - Room 3237

Sensuous endodontics: injection molded gutta-percha for
surgical and non-surgical cases

ROGER DESILETS, Jr., DDS, Worcester, MA

ERS 39 and ERS 40 - Room 3239

Update in pulpalgia diagnosis and localization of referred
pain

DENIS E. SIMON, III, DDS, MS, Scott AFB, IL

ERS 41 and ERS 42 - Room 3241

Success and failure in endodontics—a portrait of false
expectations?

RALPH BELLIZZI, DDS, APO New York

ERS 43 and ERS 44 - Room 3243

To post or not to post: aye, there's the core of the
matter!

KENNETH S. SEROTA, DDS, MMSc, Mississauga,
Canada

ERS 45 and ERS 46 - Room 3245

Evaluation of post/core design for the endodontist: a
prosthodontist's viewpoint

MARSHALL D. FAGIN, DDS, Williamsville, NY

ERS 47 (Spanish) and ERS 48 (English) - Room 3247

Treatment of the avulsed tooth

GEORGE SAS, DDS, Toronto, Canada

ERS 49 and ERS 50 - Room 3249

Failure? The radiograph is perfect:
microscopic look into endodontic failure

SHEPARD S. GOLDSTEIN, DMD, Framingham, MA

ERS 51 and ERS 52 - Room 3250

Obturation of apical ramifications utilizing injection-
molded thermoplastic gutta-percha

G. JOHN SCHOEFFEL, DDS, MMS, Lancaster, CA

ERS 53 and ERS 54 - Room 3251

Understanding resorption, its diagnosis, treatment, and
prognosis

ALFRED L. FRANK, DDS, Los Angeles

ERS 55 and ERS 56 - Room 3253

Antibiotic selection—a rational approach

ANTHONY D. GOODMAN, DDS, MScD, Los Angeles

ERS 57 and ERS 58 - Room 3254

(Japanese)

Clinical factors influencing prognosis of endodontic
therapy

HISASHI NAGASAWA, DDS, DMSc, and

KAZUTOSHI KOJIMA, DDS, DDS, Fukuoka, Japan

ERS 59 and ERS 60 - Room 3225

Overfill or underfill: which is more biological?

DONALD R. MORSE, DDS, MA, Philadelphia

■ **INTERNATIONAL SYMPOSIUM I**
Regency West

Moderator: HAROLD RAPPAPORT, DDS, Cherry Hill, NJ

This presentation will be given in English.

9:00 am- Traumatized teeth: their evaluation, treatment, and
12:00 Nn prognosis

INGEBORG JACOBSEN, DDS, PhD, Oslo, Norway

Traumatic injuries, such as crown fracture, crown-root fracture, root fracture, subluxation, luxation and dislocation, and exarticulation, will be discussed in terms of appropriate treatment and expected rate of success. Particular attention will be focused on: coronal fractures with pulp exposure; prognosis for repair of root fractures; treatment of intruded incisors; criteria for diagnosis of pulp necrosis; pulp canal obliteration; diagnosis and treatment of external root resorption; and replantation of avulsed incisors.

PRACTICE ADMINISTRATION
Convention Hall C

Moderator: CARL L. TINKELMAN, DMD, Philadelphia

9:00 am- Team building: the brass tacks of motivating your
12:00 Nn employees
(Continued at 1:30 pm)

ROBERT P. LEVOY, Great Neck, NY

This idea-filled and results-oriented seminar will provide you with actions and steps to make your employees happier and more productive. Factors that contribute to job satisfaction, tested tips for interviewing applicants, participative management, and ways to conduct livelier and more meaningful staff meetings will be discussed. Other topics will show you how to incorporate team-building techniques that boost morale and motivation, solve "people problems," and avoid management blunders that squelch motivation.

NEED INFORMATION ABOUT LOCAL ATTRACTIONS?

Local Committee members will help to make your stay a more enjoyable one. Visit the Hospitality/Information Booth #5, Regency North Ballroom. List of recommended restaurants also available at the booth.

PROJECTED CLINICS II
Regency South

Moderator: LOUIS I. GROSSMAN, DDS, Philadelphia

SURGERY FROM DIFFERENT POINTS OF VIEW

9:00 am It looks like an endodontic lesion—but is it?

ALAN J. DRINNAN, MD, DDS, Buffalo, NY

Oral lesions resulting from diseased root canals may appear in various ways and can present serious diagnostic challenges. Through presentation of case histories complete with radiographic or clinical illustrations, this clinic will delineate diagnostic difficulties and allow participants to test their diagnostic acumen.

9:45 am Surgical problems and how to deal with them

DAVID L. EIDELMAN, DDS, Union, NJ

This clinic concentrates on surgical problems caused by endodontic origins. Acute and chronic pathologic conditions as well as iatrogenically produced problems will be identified and discussed. Appropriate treatment modalities, such as fenestration, management of perforations, and apical surgery for multi-rooted teeth will be explained, with emphasis on planning and instrumentation for molar surgery.

10:30 am Soft tissue management, flap design, and avoiding problems during surgery

ZIGMUND C. PORTER, DDS, Oakbrook, IL

Flap design that best suits endodontist's needs during endodontic surgery, including aspects such as how to evaluate presurgical tissue problems and underlying periodontal problems will be covered. The advantages and disadvantages to basic flap designs with regard to their effect on healing and surgical techniques will be considered as will combined endodontic-periodontic treatment during surgery.

11:15 am Questions and answers

10:30 am **ENDODONTIC ROUNDTABLE SEMINARS**
(repeated from 8:30 am)

HEADSETS MUST BE RETURNED BY 5 PM SATURDAY

■ Simultaneous translation from English into Spanish and Japanese.

* Presenter

FRIDAY AFTERNOON, APRIL 22

Noon

LUNCHEON WITH NASA

Convention Hall A & B (By ticket only)

NASA's Space Shuttle Program

SAMUEL T. BEDDINGFIELD, Deputy Director, Shuttle Projects' Management Office

Don't let the Space Age pass you by. Mr. Beddingfield, a 23-year veteran at Kennedy Center/Cape Canaveral who has worked on Projects Mercury, Gemini, and Apollo, will give you up-to-the-minute information on his latest assignment—The Space Shuttle. The events and hard work leading to the Shuttle's creation and implementation, current use and status of the Shuttle, and forecasts for future flights will be explained.

PRACTICE ADMINISTRATION II

Convention Hall C

Moderator: CARL L. TINKELMAN, DMD, Philadelphia

1:30 pm- ROBERT P. LEVOY

4:00 pm (continued from morning session)

INTERNATIONAL SYMPOSIUM II

Regency West

Moderator: H. DAVID PRENSKY, DDS, Palm Beach, FL
(All presentations are in English, except for that given by Dr. Otani.)

1:30 pm Diagnosis for successful endodontics

MARIA CANALES, DDS, MS, Monterey, Mexico

A systematic approach to endodontic diagnosis is essential. Clinical endodontic tests will be illustrated and discussed with particular emphasis on the use of new diagnostic instruments.

2:15 pm Failures in endodontics: how to avoid and correct them

RAFAEL MIÑANA, MD, DDS, Madrid

Despite the best efforts and techniques, root canal failures can occur. This clinical presentation and discussion considers factors that contribute to success or failure. Diagnosis, anatomic variations, canal preparation and filling, periodontic-endodontic surgical corrections, and restorations will be included in topics covered.

3:00 pm Diodontic implants (endodontic endosseous)

RICHARD B. JOHNS, PhD, LDSRSC, Sheffield, England

This parallel-sided, self-threading, endodontic, endosseous implant will be discussed in terms of its advantages, disadvantages, and comparison with implants that involve permanent penetration of the oral epithelium. Function of the diodontic implant, with regard to types of cement and force used, mechanical stress, and tissue reaction will also be covered.

3:45 pm A high-speed technique in canal preparation with new instruments

MITSURU OTANI, DDS, DMSc, Tokyo

A new, high-speed technique in canal preparation that is accurate and safe will be introduced. Especially useful in preparation of the less delicate $\frac{2}{3}$ of the root near the crown, this method can be used with instruments such as the Dynatrack and Endo Dia. A new reamer that can be used in apical box preparation and replaces files used in the step-back technique will also be explained, with emphasis on advantages such as speed, accuracy, and the alleviation of over-instrumentation or debris in the apex.

RESEARCH SEMINARS III

Capitol

Moderator: PAUL VANEK, DDS, Ann Arbor, MI

1:30 pm The duration of effectiveness of root canal medicaments

*HAROLD MESSER, BDS, MDS, PhD; C. SHEPARD, DDS; and R.S. CHEN, DDS, University of Minnesota

The prolonged antibacterial effectiveness of root canal medicaments depends on their continuing release from a cotton pellet placed in the pulp chamber. Using UV-spectrophotometric assay following extraction into ethanol, the rate of release of CMCP and other substituted phenols from cotton pellets sealed into teeth was assessed.

1:50 pm Internal bleaching of tetracycline stained teeth in dogs

*RICHARD E. WALTON, DMD, MS; NORRIS O'DELL, DDS, and FRANK LAKE, DDS, Medical College of Georgia

Tetracycline (TC) staining of teeth is a serious cosmetic problem. This study was designed to see if root canal treatment followed by internal bleaching would lighten the shades of TC-stained teeth, and if the shade changes would persist with time. Puppies were given oral tetracycline that induced staining of the permanent teeth. Some teeth received root canal treatment only; others received root canal treatment plus internal bleaching by sealing in oxidizing paste.

2:10 pm Clinical factors influencing the prognosis of endodontic therapy

*HISASHI NAGASAWA, DDS, DMSc, and KAZUTOSHI KOJIMA, DDS, DDS, Kyushu University, Japan

Clinical factors influencing prognosis of endodontic therapy were studied in detail. Clinical and radiographic observation (by eccentric projections in addition to direct bucco-lingual projections) were made on 161 endodontically treated teeth, 202 roots for three to four years postoperatively. To analyze the effect of two main factors, *i.e.*, condition of tooth canal filling and preoperative periapical status, on treatment results, the loglinear model was fitted using a conditionally independent model.

- 2:30 pm Physiology of pulp disorders
SYNGCUK KIM, DDS, PhD, Columbia University
Disturbances in microcirculatory hemodynamic parameters have been considered the main cause of pulpal disorders. Recent research findings on the pulpal macrocirculatory and microcirculatory physiology in health and disease will be used as a basis for a hypothetical pathophysiological mechanism for pulpal disorders.
- 2:50 pm The effect of various endodontic files on debridement and shape of instrumented, severely curved root canals
*MAHMOUD ELDEEB, BDS, MS, and DAVID HANSKE, DDS, MS, University of Minnesota
The effect of using different type files on debridement and shape of 160 severely curved root canals was studied. A total of 80 roots were longitudinally sectioned and debridement was evaluated under a dissecting microscope. Silicone impression material was injected into the other 80 canals. The teeth then were dissolved, and the impression was evaluated under a dissecting microscope.
- 3:10 pm Vertical root fracture from lateral condensation of gutta-percha: an in-vitro study
DAVID L. PITTS, DDS, MSD, University of Washington
A total of 44 extracted human maxillary central incisors, maxillary cuspids, and mandibular cuspids were filled with gutta-percha by lateral condensation on a testing machine until vertical root fracture occurred. A spreader load as small as 7.2 kg produced a fracture in a maxillary central incisor.
- 3:30 pm A histologic study of root fractures in monkeys
*ANDREW A. MICHANOWICZ, DDS, and HASSAN AMIN BEN-KHAIAL, BDS, MS, University of Pittsburgh
Intra-alveolar root fractures on central incisors were experimentally induced on the central incisors of male *papio anubis/cynocephalus* baboons. The results of the study to evaluate the histologic repair will be presented. A histological examination of the sequence of repair occurring at the site of fracture will be presented from the results ranging from 24 hours to three months after trauma. The results are part of a continuing long-term study of experimentally induced root fractures.
- PROJECTED CLINICS III**
Regency South
Moderator: ERIC J. HOVLAND, DDS, Baltimore
- 1:30 pm Amalgam post and core for molars and premolars
ARUN NAYYAR, DMD, Augusta, GA
The clinical success of a tooth treated by an endodontist depends on the subsequent restorative procedures. If the endodontist could complete the observation and the coronal radicular build-up, a weakened tooth could be protected from fracture. The objective of this presentation is to describe a coronal radicular build-up procedure that is simple, quick, cost-effective, and suitable for use in the endodontist's office. Discussion will be supported by data from 7-year clinical and laboratory evaluation.
- 2:30 pm Instrumentation of the curved canal
JAMES B. ROANE, DDS, MS, Norman, OK
This clinic presents a mechanical analysis of the curved canal and the equipment available to solve its enormous challenges, to the end that preparing a curved canal becomes a graceful expression of endodontic form. Bi-directional use of K-type files will be explained and the effect of their inclining flutes on placement, cutting, and power explored. The effect of root access, rotating instruments, instrument shape, and lever arm related to instruments passing through a root curvature will be considered.
- 3:00 pm Endodontic implants: a treatment alternative
JACK A. LEWIS, DDS, San Rafael, CA
Endodontic implants or stabilizers have been neglected for some time in the literature. This presentation will show this is a viable treatment alternative in selected cases. It will be shown through presentation of successful cases that if certain minimum requirements are met in case selection, teeth with a reduced crown-to-root ratio and increased mobility may be retained and utilized in the prosthetic restoration of the mouth.
- 3:30 pm Removal of those slippery silver cones
MANUEL I. WEISMAN, DDS, Augusta, GA
This clinic will demonstrate the removal of silver cones by use of a simplified foil plier hemostat system. The countersinking of cones will also be shown.
- 3:45 pm Routine retreatment of surgical failures and calcified canals
GEORGE G. STEWART, DDS, Philadelphia, PA
This clinic will introduce a new instrument that can pick out secondary or reparative dentin and clean out difficult to negotiate canals. Root-end filling is not a cure-all and surgery can sometimes be avoided by finding natural canals.
- 4:00 pm New vistas in the orthodontic/endodontic inter-relationship
YOLANDA DE JUSTUS, DDS, Mexico City
The concomitant problems created by dual treatment modalities will be illustrated by several case histories. How far can we extend endodontic therapy on a tooth of vital importance with orthodontic stress? Can we control and/or prevent resorption? All this and more will be discussed.
- 4:30 pm Etiology of the differences between 2% and 89% of successes in root canal therapy
YURY KUTTLER, DDS, MD, Mexico City
Root canal therapy (a part of endo-metaendodontics) is practiced almost exclusively because slight and partially altered pulps are not treated. Sixteen principal causes of poor treatment are mentioned and 16 remedies are described to obtain a proven 89.2% of success.
- 7:00 pm **POOLSIDE STEAK FRY**
(By ticket only)

SATURDAY MORNING, APRIL 23

7:30 am **PAST PRESIDENTS' BREAKFAST**
Upper Sky Room, East Building

8:00 am **CONTINENTAL BREAKFAST**
Convention Hall A (By ticket only)

8:00 am **EXHIBITS and REGISTRATION OPEN**

RESEARCH SEMINARS IV — GRADUATE SECTION Capitol

Moderator: HAROLD GERSTEIN, DDS, Milwaukee, WI

9:00 am An in-vitro autoradiographic study comparing the apical seal of uncatalyzed Dycal and laterally condensed gutta-percha versus Grossman's sealer and laterally condensed gutta-percha

JOSEPH W. SHIVELEY, DDS, MS, Ohio State University

This in-vitro, autoradiographic study compared the seal of the apical (5 mm) of uncatalyzed Dycal and laterally condensed gutta-percha and Grossman's sealer and laterally condensed gutta-percha. As a positive control, 95 single-rooted teeth were obturated with gutta-percha and no sealer. Five teeth were not obturated but were coated with nitrocellulose as a negative control. All specimens were placed in a humidior to maintain 100% humidity. The humidior was placed in an incubator at 37°C for seven days to allow for any volume change due to shrinkage and to allow sealers to set. Teeth then were placed in radiolabeled sulfur (35 S at 37°C). After 48-hour immersion in the isotope, teeth were removed, washed, and sectioned at 1 mm, 2 mm, 3 mm, 4 mm, and 5 mm levels and evaluated for leakage.

9:20 am Hydron versus gutta-percha and sealer: a study of endodontic leakage using scanning electron microscopy and energy dispersive analysis

JAMES R. MURRIN, DDS, MS, Ohio State University

To compare the apical sealing efficiency of Hydron and laterally condensed gutta-percha with Grossman's sealer in human teeth, 32 teeth were endodontically prepared and filled with Hydron, laterally condensed gutta-percha and Grossman's sealer, or gutta-percha without sealer. Each tooth was suspended in a solution of manganese chloride for 24 hours. A scanning electron microscope with energy dispersive analytical capability was used to assay the amount of manganese that reached the 2 mm apical level in the specimen.

9:40 am A calcium phosphate cement used as a root canal sealer: SEM analysis

KEITH V. KRELL, DDS, MA, University of Iowa

Thirty single-rooted teeth were filled and flared with NaOCl and REDTA as irrigants. Fifteen teeth were obturated using gutta-percha, lateral condensation, and an experimental calcium phosphate cement. Fifteen teeth were obturated using gutta-percha, lateral condensation, and Grossman's cement. All teeth were individually suspended in calf serum for one day, one week, and six weeks. All teeth were rinsed, sectioned, and prepared for SEM analysis. Qualitative differences of the two cements, and serum changes will be presented.

10:00 am Correlation of serum immunoglobulin titers and bacterial flora in subjects with acute oro-facial swellings

*STEVEN D. SVETCOV, DDS; JOHN DeANGELO, DDS; T. MacNAMARA, DDS; and ALAN J. NEVINS, DDS, Nassau County Medical Center

Serum immunoglobulin levels for IgG, IgM, IgA, and IgD were found within normal limits. With the exception of one culture specimen, gram negative obligate anaerobes capable of producing endotoxin were cultured from all nonvital teeth.

10:20 am The interrelationship between pulpal blood flow and neural activity in dogs in response to serotonin

*WILLIAM SCHACTER, DMD, Harvard University and SYNGCUK KIM, DDS, PhD, Columbia University

Serotonin (5-HT) is one of the major endogenous substances released from platelets during the inflammatory process. In addition, 5-HT has been known to act as a neurotransmitter and vasoactive agent. This study investigated the influence of 5-HT on the blood flow and sensory nerve activity of the dog pulp. Changes in pulpal blood flow were measured by injections of 5 micron radioisotope labeled microspheres. Intradental sensory nerve activity was simultaneously recorded by inserting electrodes into two deep dentinal cavities. The results may aid in elucidating the cascade of events leading to pulpal inflammation and dental pain.

10:40 am Healing of experimental root perforation in the Macaque monkey

RICHARD A. BEAVERS, DDS, University of Michigan

A model system, using two rhesus monkeys, was developed to study periodontal wound healing, following iatrogenic furcation and lateral root perforation. A total of 24 cases were sealed with Life, and 24 controls were sealed with Teflon discs. Radiographic and histologic observations were made during periods ranging from two to 42 days. Both treatment and control cases presented similar tissue-healing responses, which were then classified into three phases: early, intermediate, and late.

* **Presentor**

11:00 am An ultrastructural investigation of the human apical pulp in irreversible pulpitis
 MARIO M. MENDOZA, DDS, MS, Ohio State University
 Ten human apical pulps from teeth with clinical irreversible pulpitis and four pulps from normal teeth were studied with the electron microscope. All teeth with irreversible pulpitis exhibited similar clinical and radiographic findings. Specimens were described and graded for changes in the ultrastructure of nerves, vessels, and connective tissue elements of the apical pulp.

11:20 am Histological study of repair in created alveolar bone defects in dogs
 *J. AIVAZ, DDS; JOHN HEELEY, BLS, MSHS, Forsyth Dental Center and C.C. CAPPUCCINO, DMD, Harvard School of Dental Medicine
 Surgical defects within alveolar bone in dogs were created in interproximal, bifurcation, and periapical areas implanted with demineralized and mineralized bone powder, porous, and non-porous bone cement or left unfilled. Block sections were taken 2, 10, 18, and 28 weeks later and studied histologically.

11:40 am Evaluation of repair of mechanical perforations of the pulp chamber floor using biodegradable tricalcium phosphate, calcium hydroxide, or Teflon discs
 *VAN T. HIMEL, DDS; JAMES E. BRADY, DDS; JIM C. WEIR, DDS; and RAYMOND G. LUEBKE, DDS, MSD, Louisiana State University
 This study clinically and histologically evaluated the effects of three materials on the biologic repair of the defect created by perforating the pulp chamber floor of mandibular posterior teeth. The size of the tooth in relation to the size of the perforation was directly proportional to the prognosis.

■ **SCIENTIFIC SESSION III**
Regency West

Moderator: SAMUEL SELTZER, DDS, Philadelphia

UPDATE ON PAIN

9:00 am Neurophysiology of pain as related to diagnosis and management
 RONALD C. AUVENSHINE, DDS, PhD, Houston
 How the brain deals with pain is very important in diagnosis, treatment, and management of discomfort. Hence, neuroanatomy and neurophysiology of pain will be considered from a practical point of view and clinical perspective that will facilitate clinical application. Topics to be covered include: the relationship of pain versus suffering; the Gate-Control theory of pain; discrimination and motivational aspects of pain; and psychological influence of pain.

HEADSETS MUST BE RETURNED BY 5PM SATURDAY

■ **Simultaneous translation from English into Spanish and Japanese.**

10:30 am Update on the use of analgesics in dentistry
 STEPHEN A. COOPER, DMD, PhD, Newark, NJ
 The efficacy and side effects of new centrally acting and peripherally acting analgesics will be reviewed. Emphasis will focus on the use of these new agents in controlling pain of dental origin.

9:00 am-12:00 Nn **TABLE CLINICS/POSTER CLINICS**
Regency South and East

PIONEERS OF THE AAE

1. Light trauma—the insidious killer
 WALTER P. AUSLANDER, DDS, Royal Palm Beach, FL
2. Bleaching the discolored pulpless tooth
 L. IRVING EPSTEIN, DDS, Ft. Lauderdale, FL
3. Medication of the root canal
 RAYMOND L. HAYES, DDS, MS, Silver Spring, MD
4. Aids toward a happy 45 years of endodontic practice
 HAROLD A. MAXMEN, DDS, Huntington Woods, MI
5. Root canal in the 1930s
 BENJAMIN W. MEIMAN, DDS, Coconut Creek, FL
6. Ready to use (non-amalgam) retrograde filling material, also used for pulp capping, pulpotomy, and deciduous root fills
 GEORGE E. MEINIG, DDS, Ojai, CA
7. A simple method of approach
 SAMUEL M. ROBBINS, DDS, Cleveland, OH
8. Gaining direct and adequate access to the openings of root canals in all teeth
 LOUIS J. ROSEN, DDS, Montreal
9. Endodontics in the early days of the AAE
 CARL W. SAWYER, DDS, Kansas City, MO
10. Electro-sterilization
 BERTRAM L. WOLFSOHN, DDS, Palo Alto, CA

GRADUATE STUDENT SECTION

11. Methods of vertical extrusion
 BARRY L. BURKETT, DMD, National Naval Dental Center
12. Inverted instrumentation in endodontics
 CESAR CABRAL, DDS, New York and ENRIQUE CEPERO, DDS, Santa Domingo
13. Rubber dam isolation of fixed prostheses
 MARTIN D. HICKEY, DMD, National Naval Dental Center
14. Tetracycline stained teeth—a treatment dilemma
 JAMES H. ISAACSON, DDS, National Naval Dental Center

15. Removing "stubborn" silver cones: a new use for the ultrasonic scaler
KEITH V. KRELL, DDS, MA; and MICHAEL W. FULLER, DDS, University of Iowa
16. Extrusion of endodontically treated teeth
WILLIAM LINEBARGER, DDS; and STEVE C. WHEELER, DDS, University of North Carolina
17. Histologic evaluation of the functional monofilament splint
THOMAS O. MORK, DDS; JOHN D. ALLEMANG, Jr., DDS, National Naval Dental Center
18. Customized cones—a new technique
LANGSTON D. SMITH, DMD, MS, San Diego, CA

NON-GRADUATE SECTION

19. Unique maxillary lateral
FRANK BALABAN, DDS, MS, MA, Morgantown, WV
20. Multiple purposes of calcium hydroxide in endodontics
ANN BALOGH, and SYLVIE GALERNEAU, Montreal
21. Clues in locating extra root canals
FERNANDO BLANCO-MORENO, MD, DDS, Victoria, Spain and PETRO RUIZ-DE-TEMINO MALO, MD, DDS, Madrid, Spain
22. Hazards during endodontic therapy
AIDA A. CHOHAIEB, DDS, MSD, and KHODABAKHSH SALAMAT, DMD, DDS, MS, Washington, D.C.
23. The evolution and revolution of posts
ALLAN S. DEUTSCH, DMD, and BARRY LEE MUSIKANT, DMD, New York
24. Endodontics in public health dental care
ISABEL C. FRIEDMAN, DDS, Havana, Cuba
25. Non-endodontic periapical lesions
JEFFREY HOOVER, DMD, MS, Houston
26. Three-dimensional radiographic interpretation
WILLIAM S. HWANG, DDS, and RONALD P. HEMPEL, DDS, San Diego, CA
27. Three-dimensional visual aids
ROBERT M. KRASNY, DDS, MSD, Los Angeles
28. Advanced endo-metaendodontic cases
YURY KUTTLER, DDS, MD, Mexico City
29. An efficient enlargement and irrigation of root canals by ultrasonic
MASARU MARUHASHI, DDS, Takasaki, Japan
30. Exploratory endodontic surgery
RAHELE R. REZAI, DMD, MA, and KHODABAKHSH SALAMAT, DMD, DDS, MS, Washington, D.C.
31. Rotation instrumentation
CLYDE L. SABALA, DDS, and JOHN T. BIGGS, DDS, MS, Oklahoma City, OK

32. How to splint avulsed teeth
AHMAD SADEGHEIN, DDS, MS, and MOSTAFA TEHRANI-RAD, DMD, MS, Tehran, Iran
33. A simplified endodontic technique
LOUIS C. SIEGEL, DDS, and JEROME J. SIEGEL, DDS, Cincinnati
34. The calcium hydroxide plug technique
ROBERT N. SMYTH, DDS, MS, Bethesda, MD
35. Ultrasonically warmed, three-dimensional canal system obturation method with gutta-percha/eucapercha
MASAYOSHI TAKUBO, DDS, DMSc, HITOSHI HADA, DDS, and MICHIIHIRO TAKUBO, Fukuoka-city, Japan
36. The upper first bicuspid—the unitized CC (canal-core)
ROBERT V. WEISSMAN, DDS, Fairlawn, NJ

POSTER CLINICS

- 1P. Clinical trial of corticosteroid in endodontic therapy
KENNETH CHANCE, DDS; LOUIS LIN, DDS, PhD; FRANCIS SHOVLIN, DDS, MS; JOSEPH SKRIBNER, DDS, University of Medicine and Dentistry of New Jersey
- 2P. Root canal temperature during obturation with the McSpadden compaction technique
WAYNE J. DOLLARD, DDS, National Naval Dental Center
- 3P. Intentional root canal therapy and bleaching as an alternative treatment of tetracycline staining
DAVID C. FUNDERBURK, DDS, and A.E. SKIDMORE, DDS, MS, West Virginia University
- 4P. A comparison of carbon-steel and stainless steel Gates-Glidden burs: torsional strength and corrosion resistance
ILANA HELING, DMD, and WILLIAM LINEBARGER, DDS, University of North Carolina
- 5P. Forced eruption of root fractures after endodontics
KEITH HILDEBRAND, RDH, DDS, and A.E. SKIDMORE, DDS, MS, West Virginia University
- 6P. A comparison of the periapical responses to dentin chip and calcium hydroxide plugs
G. REX HOLLAND, BDS, BSc, PhD, University of Iowa
- 7P. Leakage associated with apical root resection procedures
DAVID K. SULLIVAN, DMD, and RICHARD G. BEATTY, DDS, MS, University of Florida
- 8P. SEM evaluation of canals flared by modified rotary engine files
KENNETH L. ZAKARIASEN, DDS, Edmonton, Canada

9:00 am- **EDUCATIONAL RESOURCES**
 12:00 Nn **Mezzanine Theater**

1. TV aid for teaching endodontics
 SAMUEL S PATTERSON, DDS, MSD, and CARL W. NEWTON, DDS, MSD, Indiana University
2. Utilization of computer-assisted teaching of endodontic diagnosis
 GARTH A. JAMES, DDS, MS, Lincoln, NE
3. Innovations in preclinical endodontics
 SANDRA A.L. LaTURNO, DDS, and JOHN F. CORCORAN, DDS, University of Michigan
4. Low budget presentation of teaching films
 ROBERT AMBINDER, DDS, Columbia University
5. Instrumentation of curved canals with the use of balanced force and modified instruments
 JAMES B. ROANE, DDS, MS, Norman, OK
6. Utilization of video tapes for an undergraduate case presentation seminar
 JOHN R. LUDINGTON, Jr., DDS, University of Texas, Houston
7. Teaching of basic endodontic procedures on extracted human teeth
 JOSEPH C. KEHOE, DDS, University of Florida
8. The pig jaw: an aid for teaching endodontic surgery
 RICHARD G. BEATTY, DDS, University of Florida
9. Postoperative evaluation of endodontic treatment
 JOHN F. BUCHER, DDS, MS, University of Florida
10. The treatment of endodontic emergencies
 FRANK J. VERTUCCI, DMD, University of Florida
11. The Socratic method: teaching by questioning
 WILLIAM STRONER, DDS, and NIJOLE A. REMEIKIS, DDS, University of Illinois
12. Endodontic emergency procedures
 MARY I. RINGLER, DMD, MA, PhD, Medical College of Georgia
13. The analytic pulp tester—a self-instructional package
 NATHANIEL M. WEST, DDS, Virginia Commonwealth University
14. Programmed instruction in endodontic problem solving
 ROBERT W. MENDEL, DDS, MA, University of Louisville

SATURDAY AFTERNOON, APRIL 23

Noon **E. D. COOLIDGE LUNCHEON**
Convention Hall (By ticket only)
Chairman: JACOB B. FREEDLAND, DDS, Charlotte, NC

In celebration of the AAE's 40th anniversary and in deference to our heritage, Charter Members of the AAE, the founders who had the forethought and fortitude to start a national organization, will be the honored guests. The winner of the esteemed Edgar D. Coolidge Award will also be announced.

2:30 pm **GENERAL ASSEMBLY MEETING**
Regency West

2:30 pm- **VIDEOTAPES**
 4:30 pm **Mezzanine Theater**

The following list of videotapes, in Spanish and Japanese, will be available for viewing on television monitors:

Preliminary impressions for complete dentures
 Endodontics—A retrograde amalgam procedure
 Endodontics—Root canal preparation in vertical condensation
 Root amputation of maxillary molar distal buccal root
 Vertical dimension of complete dentures
 Subgingival curettage
 Orderly development of a partial denture design, Part I—The mandibular cast; Part II—The maxillary cast
 Hemisection on mandibular molar
 Endodontics—Vertical condensation of gutta-percha filling material

The following are available in Japanese only:

Endodontics—the total concept
 Part I—Preparation for treatment
 Part II—Preparation of the canal system
 Part III—Sealing the canal system

6:30 pm **PAST PRESIDENTS' RECEPTION**
Convention Hall Foyer

7:30 pm- **AAE'S 40TH BIRTHDAY PARTY DINNER DANCE**
 1:00 am **Convention Hall** (By ticket only)

SUNDAY MORNING, APRIL 24

8:00 am **CONTINENTAL BREAKFAST**
Regency East (By ticket only)

8:00 am **AAE BOARD OF DIRECTORS' MEETING**
Congress

SOUTHERN ENDODONTIC STUDY GROUP **Regency South**

Moderator: MANUEL I. WEISMAN, DDS, Augusta, GA

You can deposit questions for this Sunday seminar in the box at the AAE office until Sunday morning, regardless of whether you plan to attend the seminar.

THE ESSENCE OF ENDODONTIC PRACTICE: THE INTERRELATIONSHIP OF THE ENDODONTIST, THE REFERRING DENTIST, AND THE PATIENT

In today's time of rapidly changing methodologies in dental care, the future of the endodontic practice must retain the essential rapport between all parties involved. This symposium will explore many facets of day-to-day endodontic practice that reflect many important situations in the patient and inter-doctor relationship.

9:00 am The referral connection—my patient and the endodontist
THOMAS L. SAUL, Jr., DDS, Augusta, GA

Lack of busyness is not a problem for practitioners who use the CARE system. This system will be explained as will ways to cultivate referrals from other dentists and from satisfied patients.

9:30 am Pitfalls in the endodontist's, referring dentist's, and patient's relationship

RICHARD W. EHLERS, DDS, Sarasota, FL

Through the years, the number of endodontists has increased, dental advertising and marketing have become prime practice considerations, more specialized techniques have become the domain of general practitioners, and, in many ways, the relationship between the specialist and referring dentists has changed. By examining the essentials of this relationship, problems and solutions will be outlined.

10:00 am Improving the triad relationship in endodontic practice
JOHN C. MILLS, DMD, Birmingham, AL

Effective communication is necessary between the generalist and patient; generalist and specialist; specialist and patient; and specialist and specialist. The expectations of each member in this communications triad will be emphasized.

10:30 am Stationery, forms, and communications in the endodontic practice

ALBERT L. AMATO, DDS, Marietta, GA
JOHN D. HARTNESS, DDS, Rocky Mount, NC

The presentation will include a discussion (with use of slides) of various forms and printed matter that can aid the endodontist in communicating with staff, referring dentists, and patients. The discussion will cover face-to-face communication and also focus on use of the telephone, which enables the busy practitioner to communicate with the people that keep the practice viable.

11:30 am Questions and answers

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.

AAE COMMITTEE MEETINGS

Thursday, April 21, 12:00 N

Dental Care Programs Secretariat

Friday, April 22, 7:30 am

Career Counseling Mezzanine Theater
 Editorial Mezzanine Theater
 Education Mezzanine Theater
 Honors & Awards Mezzanine Theater
 International Relations Mezzanine Theater
 Research Mezzanine Theater
 Study Club Mezzanine Theater

Saturday, April 23, 7:30 am

Insurance Secretariat

STUDY CLUBS, ALUMNI & OTHER GROUPS

Thursday, April 21

AADS-Endodontic Section Meeting (4:30-5:30 pm) Capitol
 Harvard Forsyth Endodontic Alumni Dinner
 Manero's Restaurant (7:30 pm)
 2600 East Beach Boulevard
 Hallandale, FL

Friday, April 22

Army Endodontic Breakfast (7:30 am) Regency East
 Boston University Alumni Reception
 (6:30-8:00 pm) Dr. Rosenkranz's Suite
 Columbia Alumni Post Graduate Society Breakfast
 (8-9:00 am) Upper Sky Room
 Florida Association of Endodontists (4:30 pm) Capitol
 Harry Healey Endodontic Study Club Breakfast
 (7:30 am) Secretariat
 Temple University Alumni & Friends Reception
 (6-7:00 pm) Congress

Saturday, April 23

Navy Endodontic Breakfast (7:30 am) Caucus
 Boston University Endodontic Alumni Breakfast
 (7:30 am) Congress

TOMORROW'S ENDODONTIC PRACTICE

41st Annual Session
 April 25-28, 1984
 Royal York Hotel
 Toronto, Canada

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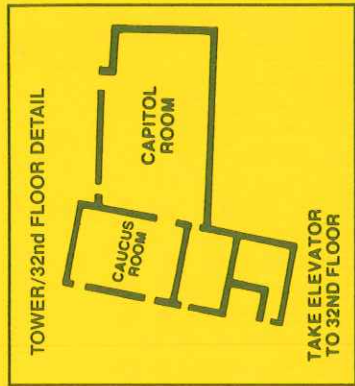
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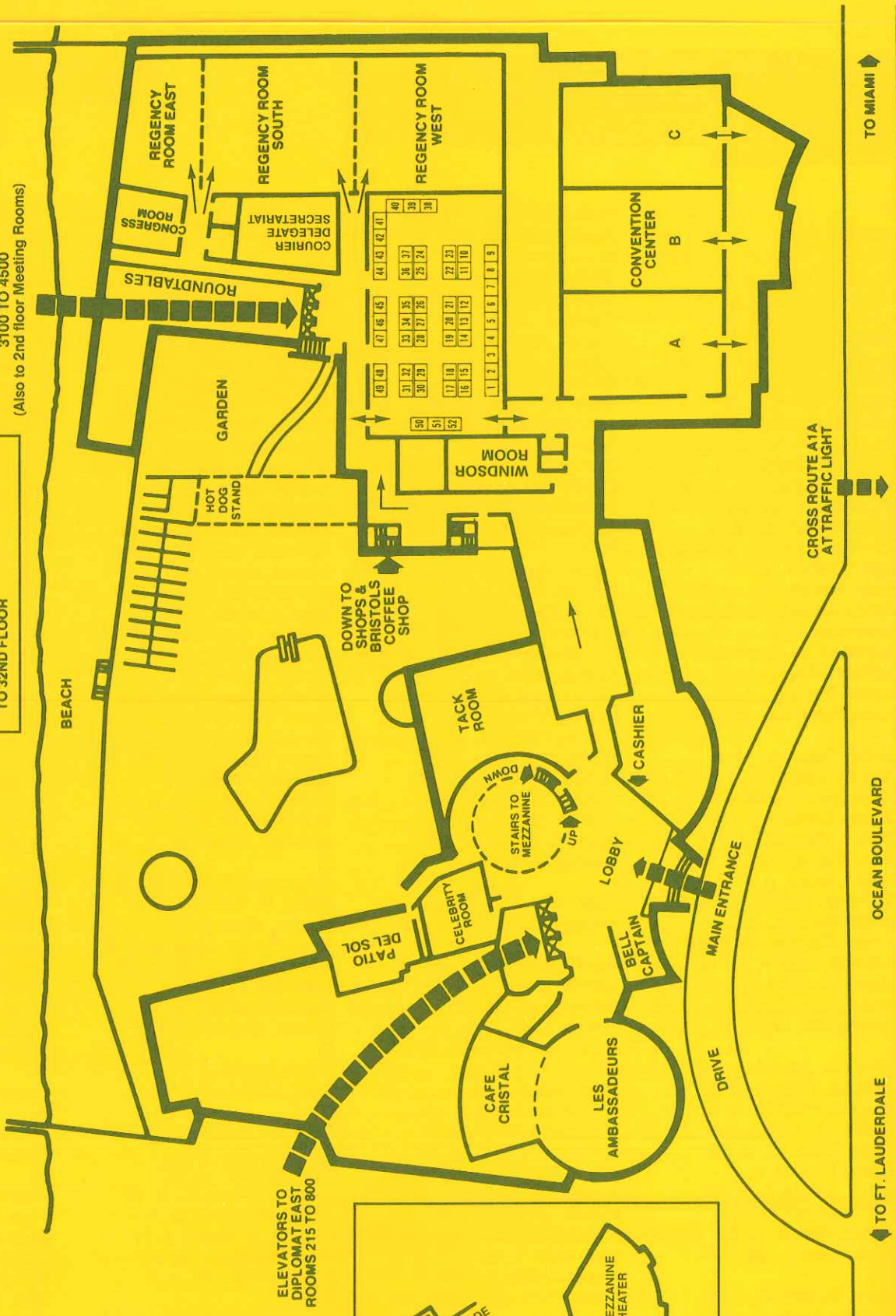
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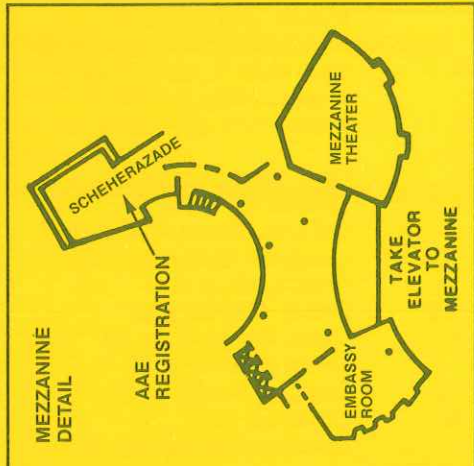
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(Booth #42)

Associated Meeting Services
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(Cassette tapes of scientific session)

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Orals November 4-5, 1983

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The AAE Auxiliary will maintain a hospitality suite at the Patio del Sol (Poolside) for all registered spouses.

WEDNESDAY, APRIL 20

- 12:00 Nn- Patio del Sol
5:00 pm AUXILIARY HOSPITALITY OPEN
- 3:30 pm- Patio del Sol
5:00 pm AAAE PRESIDENT'S WELCOME TEA

THURSDAY, APRIL 21

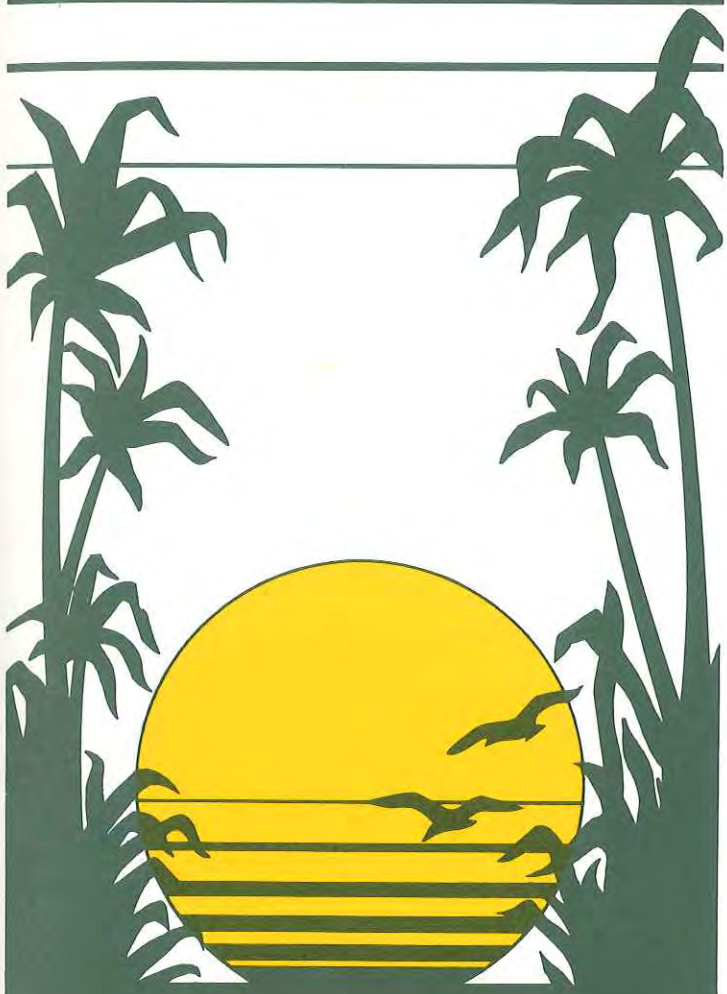
- 7:30 am Congress
AAAE BOARD MEETING
- 9:00 am- Regency East
12:00 Nn THE MONEY GAME: PLAYING TO WIN
Ms. Margaret M. Black, Associate Vice President, Investments, Dean Witter Reynolds

FRIDAY, APRIL 22

- 9:00 am- The following mini-seminars will be presented in the
10:00 am Congress, Capitol, and Caucus Rooms. Refer to signs for correct room assignments.
POTPOURRI OF FASHION AND COLOR
SKILLS ASSESSMENT AND TIME MANAGEMENT
FOOD GARNISHING AND ENTERTAINING WITH FLAIR
- 3:00 pm- Regency East
5:00 pm THE JOYS OF WINE: ITS HUMOR, HISTORY, AND HEALTH
Dr. Herbert F. Spasser, New York

SATURDAY, APRIL 23

- 9:00 am- Les Ambassadeur
11:00 am AAAE BUSINESS BREAKFAST
HIGH TECHNOLOGY AND YOU — OR WHY YOUR CHILD HAS PAC MAN FEVER
Dr. William Karensky
- 11:30 am- Congress
12:00 Nn AAAE BOARD MEETING



CONDENSED PROGRAM

MONDAY, APRIL 18
9 am-9 pm ABE Directors' Meeting Congress

TUESDAY, April 19
8 am-6 pm ABE Oral Examinations Secretariat, Congress, Courier, Delegate

8 am-5 pm E & M Foundation Trustees' Meeting Lower Sky Room (East Building)

Noon E & M Foundation Trustees' Luncheon Upper Sky Room (East Building)

WEDNESDAY, APRIL 20
8 am-6 pm ABE Oral Examinations Secretariat, Congress, Courier, Delegate

8 am-5 pm AAE Board of Directors' Meeting Lower Sky Room (East Building)

Noon AAE Board of Directors' Luncheon Upper Sky Room (East Building)

9:00 am Continuing Education Course #1 Regency South (Dr. Leon Lefer)

Continuing Education Course #2 Convention Hall C (Surgery Workshop)

Continuing Education Course #3 Regency East (The Three "Fs")

Continuing Education (Japanese) Caucus

Continuing Education (Spanish) Capitol

11:00 am Registration opens Scheherazade (Mezzanine)

7:30 pm-10:30 pm Welcome/Fellowship Reception Poolside

THURSDAY, APRIL 21
8:00 am Registration Scheherazade (Mezzanine)

8:00 am Exhibits open Regency North

8:15 am Opening Session Breakfast Convention Hall

10:00 am-Nn †Scientific Session I Regency West

10:00 am-Nn Research Seminars I Capitol

10:00 am-Nn Endodontic Roundtable Seminars See Program

Noon Buffet Luncheon Convention Hall

Noon AAE Committee Meeting Secretariat

1:30-4:30 pm †Scientific Session II Regency West

1:30-4:30 pm Research Seminars II Capitol

1:30-4:30 pm Projected Clinics I Regency South

4:30 AADS Endodontic Section Meeting Capitol

7:00 pm Buffet Dinner Cruise See Program

FRIDAY, APRIL 22
6:30 am Fun Run See Program

7:30 am AAE Committee Meetings Mezzanine Theater

8:00 am Continental Breakfast Convention Hall A

8:00 am Registration Scheherazade (Mezzanine)

8:00 am Exhibits open Regency North

8:30 am Endodontic Roundtable Seminars See program

9:00 am-Nn †International Symposium I Regency West

9:00 am-Nn Practice Administration Convention Hall C

9:00 am-Nn Projected Clinics II Regency South

10:30 am Endodontic Roundtable Seminars See Program

Noon Luncheon with NASA Convention Hall A & B

1:30-4 pm Practice Administration II Convention Hall C

1:30-5 pm †International Symposium II Regency West

1:30-4 pm Research Seminars III Capitol

1:30-5 pm Projected Clinics III Regency South

7:00 pm Poolside Steak Fry Poolside

SATURDAY, APRIL 23
7:30 am AAE Committee Meeting Secretariat

7:30 am Past Presidents' Breakfast Upper Sky Room (East Building)

8:00 am Continental Breakfast Convention Hall A

8:00 am Registration Scheherazade (Mezzanine)

8:00 am Exhibits Open Regency North

9:00 am-Nn Research Seminars IV Capitol

9:00 am-Nn †Scientific Session III Regency West

9:00 am-Nn Table Clinics/Poster Clinics Regency South & East

9:00 am-Nn Educational Resources Mezzanine Theater

Noon Edgar D. Coolidge Luncheon Convention Hall

2:30 pm General Assembly Meeting Regency West

2:30-4:30 pm Videotapes Mezzanine Theater

6:30 pm Past Presidents' Reception Convention Hall Foyer

7:30 pm-1 am AAE's 40th Birthday Party Dinner Dance Convention Hall

SUNDAY, APRIL 24
8:00 am Continental Breakfast Regency East

8:00 am AAE Board of Directors' Meeting Congress

9:00 am-Nn Southern Endodontic Study Group Regency South

†Simultaneous translation