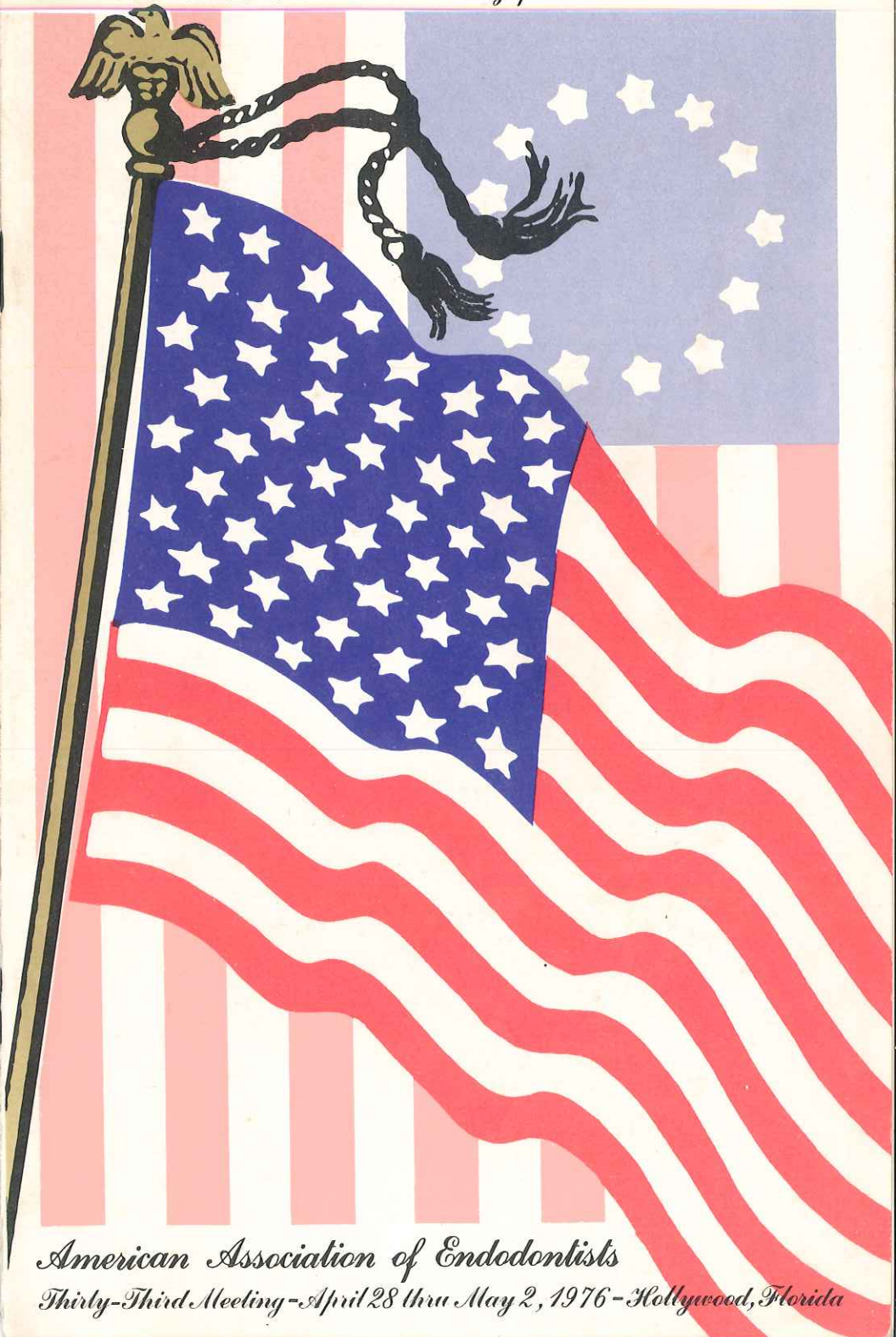


*Dedicated to the 200th Anniversary of the United States* ©SEYEL



*American Association of Endodontists  
Thirty-Third Meeting - April 28 thru May 2, 1976 - Hollywood, Florida*

## PRESIDENT'S WELCOME

It is a pleasure for me, on behalf of the officers and directors of the Executive Committee, to extend a cordial welcome and greeting to each of you here in attendance at our thirty-third annual meeting.

Rarely does one have an opportunity to host a national meeting of such stature in one's own backyard. It is my pleasure to do so. Welcome to the Land of Sunshine. This meeting has been structured with both you and the environment in mind.

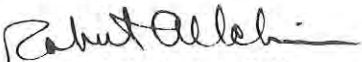
Enjoy yourself! Educate yourself!

We have an unusual opportunity this year to host many of our South American and other foreign colleagues. For the first time, we are providing simultaneous translation both from English to Spanish and from Spanish to English. This should broaden the scope of our meeting for member, clinician and guest alike.

Many thanks to each of the committee people who have made the meeting a reality. They have all worked very hard for the better part of two years to make your stay a social and educational success.

In this, our Country's Bicentennial year, let us all show members and guests alike, true American friendliness by the warmth of our hospitality.

Cordially,



Robert A. Uchin, D.D.S.,  
President

# *Greetings to Members and Guests*

We speak of Bicentennial Celebrations, Bicentennial Cities, even Bicentennial Breakthroughs! In this "Spirit", I should like to offer -- "Bicentennial Blend".

For "Bicentennial Blend" is a perfect description of this year's Annual Meeting in Hollywood, Florida -- a blend of the excellence of the scientific program seasoned with the superbness of leisure time activities, flavored with the luxury of a magnificent convention complex.

Scientifically speaking, Gerald Cathey has put together an outstanding program of clinicians of international repute.

In the Spirit of '76, we have a number of "revolutionary" events this year such as wives joining us at luncheons, an afternoon seminar for husbands and wives and late night hospitality.

In addition to the various planned activities, we hope you will take advantage of this new center of Gold Coast attractions -- midway between the numerous activities of Ft. Lauderdale and the glittering excitements of Miami Beach.

Our warmest welcome to you all! If there is anything we can do to enhance your stay, please feel free to contact your Florida hosts.

Surely this is the best of all worlds for the best of all meetings!



Gerald I. Wernick, D.D.S.  
Arrangements Chairman

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## OFFICERS

### AMERICAN ASSOCIATION OF ENDODONTISTS



Robert A. Uchin  
*President*



Frank B. Trice  
*President Elect*



George A. Zurkow  
*Vice President*



Henry J. Van Hassel  
*Secretary*



Edward M. Osetek  
*Treasurer*



Worth B. Gregory, Jr.  
*Editor*

## EXECUTIVE COMMITTEE

### 1976

Gerald W. Harrington  
John T. Sowle  
Paul E. Zeigler

### 1977

Donald E. Arens  
Noah Chivian  
R. J. Shankle

### 1978

Gerald M. Cathey  
Daniel B. Green  
W. Paul Radman

IMMEDIATE PAST PRESIDENT: Alfred L. Frank  
STUDENT REPRESENTATIVE: Rudolph Lantelme  
EXECUTIVE DIRECTOR: Elenore L. Baker

## AMERICAN BOARD OF ENDODONTICS

1976	1977	1978
Harry Blechman, <i>pres.</i>	Michael A. Heuer, <i>secy.</i>	Melvin Goldman
Irving J. Naidorf	Seymour Oliet	Thomas P. Mullaney
Herbert Schilder	Marshall H. Smulson	Calvin D. Torneck

### TRUSTEES, AAE ENDOWMENT AND MEMORIAL FOUNDATION

1976	1977	1978
Julian L. Kelly, <i>secy.</i>	Richard C. Burns, <i>chm.</i>	Harold H. Epstein, <i>vice chm.</i>
John Dowson	H. David Prensky	Leo Grudin
Stephen F. Schwartz	Warren T. Wakai	George C. Israel

*Ex Officio Members:* H. J. Van Hassel and Michael A. Heuer

### PAST PRESIDENTS

W. Clyde Davis*	'43	J. Henry Kaiser	'59
Ralph F. Sommer*	'44	Paul P. Sherwood	'60
Robert G. Kesel	'45	Glenn R. Brooks	'61
E. G. Van Valey*	'46	Vincent B. Milas	'62
Maynard K. Hine	'47	James H. Sherard Jr.	'63
Louis I. Grossman	'48	J. B. Freedland	'64
Elmer A. Jasper*	'49	Henry S. Schmidt	'65
Raymond L. Girardot*	'50	John I. Ingle	'66
George G. Sharp*	'51	Edwin C. Van Valey	'67
F.D. Ostrander	'52	Samuel S. Patterson	'68
L. A. Lucas	'53	Warren J. Hedman	'69
N. Weir Burkman	'54	John F. Bucher	'70
Harry J. Healey	'55	Dudley H. Glick	'71
John R. Pear	'56	I. B. Bender	'72
George C. Hare	'57	Charles A. Scott Jr.	'73
George G. Stewart	'58	Alfred L. Frank	'74

\* *Deceased*

### HONORARY MEMBERS

Mary C. Crowley	Harry J. Healey	Maury Massler
Sir Wilfred E. Fish	Walter Hess	B. Nygaard Ostby
Louis I. Grossman	Maynard K. Hine	Harold Stanley

## CHARTER MEMBERS OF AMERICAN ASSOCIATION OF ENDODONTISTS

Aquilar, Enrique C.  
Albert, Harry \*  
Alexander, M.M.  
Anderson, A. Floyd  
Anthony, L. Pierce  
Auerbach, M.B.  
Auslander, Walter P.  
Bannister, G.P.  
Barab, John D.  
Bender, I.B.  
Bolotny, Sophia  
Burkman, N. Weir  
Cahn, L.R.  
Conat, Charles N.  
Coolidge, Edgar D.\*  
Crockett, C.D.  
Crook, J. Hobson  
Davis, W. Clyde \*  
Dawson, Paul T.  
DeWitt, Truman G.  
Dummett, Clifton O.  
Epstein, Irwin A.  
Epstein, Irving L.  
Fineman, George G.  
Girardot, G.L. \*  
Green, S.D.  
Grossman, Louis I.  
Hare, George C.  
Hayes, Raymond L.  
Haymaker, George T.  
Henriques, Pedro E.  
High, O.C.  
Hine, Maynard K.  
Hospers, John H.  
Ingersoll, William B.  
Jasper, Elmer A. \*  
Johnston, Harry B.  
Kahn, Henry  
Kaiser, J. Henry  
Kalk, Lester E.  
Kesel, Robert G.  
Levy, Saul  
Lorenz, George W.  
Lucas, L.A.  
Lundquist, G.R. \*  
McCormack, O.J.  
Maizels, Albert D.  
Maxmen, Harold A.  
Meiman, Benjamin W.  
Meinig, Douglas A.  
Meinig, George E.  
Milas, Vincent B.  
Neuwirth, P. Sidney  
Obst, Joseph J.  
Pear, John R.  
Pearson, Hyman H.  
Peschel, William A.  
Pharr, J.R. \*  
Rafish, S.M.  
Ritter, J.W.  
Robbins, Samuel M.  
Ross, Percy J.  
Sample, Arthur R.  
Sawyer, Carl W.  
Schiff, William M.  
Schwartz, Milton  
Sharp, George C. \*  
Siegel, Louis C.  
Simmons, D.G.  
Sommer, Ralph F. \*  
Starshak, Thomas C.  
Thorson, A.T.  
Van Valey, E.G. \*  
Vaughn, George W.  
Walcott, Harold I.  
White, Charles M.  
Yates, M.F.

\* *Deceased*

## 1976 ANNUAL MEETING COMMITTEES

<b>PROGRAM</b> .....	Gerald M. Cathey, <i>chairman</i>
Audio-visual clinics .....	James E. Ainley, Jr.
Commercial exhibits .....	Ernest J. Horky, <i>chairman</i> Mrs. D. Broach Thurston, <i>manager</i>
Latin American section .....	Jose Oynick and H. David Prensky
Luncheon with Learning .....	Stuart B. Fountain
Printed program .....	Elenore L. Baker
Projected clinics .....	Jack Landsberg
Table clinics .....	Benjamin W. Brown
Research seminar .....	Melvin Goldman
<b>GENERAL ARRANGEMENTS</b> .....	Gerald I. Wernick, <i>chairman</i>
Audio-visual equipment .....	Jerald E. Rubin
Banquet section .....	Robert S. Mullaney
Fun in Sun. ....	James B. Satovsky
Hosts .....	L. Irving Epstein
Registrations .....	Jon L. Rauch, <i>chairman</i> David Badat, Sheldon Blum, Lester Craig, Gregory Galland, Ronald Gittess, Harold Goodis, Ronald Leventhal, Martin Lewis, William Mitchell, Stephen Morrow, Bernard Rosenn and Melvyn Taylor.
Signs .....	Jay C. Green
Ushers and monitors .....	Thomas Beall, Laurent Belanger, Kenneth Coffae, Lester Craig, Richard Ehlers, Lewis Factor, Michael Fetty, Ronald Gittess, John T. Hancock, Blaine Jarrett, Arthur Lane, Peter McGarry, William McMillan, David Mizrahi, Ted Schwartz, Arnold Shaw, Wayne Smith, Edwin Streiter, Wayne Todd, David Whitaker, Fred Widerman and Kenneth Wortman.
<b>WOMEN'S AUXILIARY</b> .....	
Program and Arrangements .....	Mrs. Gerald Wernick (Vi) Mrs. Stephen Morrow (Michele)
Registration .....	Mrs. Jon Rauch (Nancy) Mrs. James Satovsky (Risha) Mrs. R. C. McDavid (Lee)
Hospitality .....	Mrs. Robert Uchin (Marlene)
Favors .....	Mrs. Fred Widerman (Judie) Mrs. Harold Goodis (Joan)
Flowers .....	Mrs. Bernard Rosenn (Evelyn)



## GENERAL INFORMATION

**AAE Headquarters Office** is located in the Windsor Room near the registration area and will be open from Wednesday through Saturday from 8:30 a.m. until 5:00 p.m., and on Sunday from 9:00 a.m. until noon. On hand to assist you will be members of the Atlanta office staff: Elly Baker, executive director, Dottie Abbott, Irene Elliott and Carol Lee.

**Badges.** Please wear name badges at all times—preferably on your right side.

### About the Banquet!

Please note that a ticket is *not* included in your registration packet. Instead, there is a voucher which will be exchanged for a ticket when you make your table selection. This must be done no later than 5:30 p.m. Thursday, April 29, to permit us to provide the hotel with an accurate count.

You may reserve as many seats, or an entire table, as you wish, provided you have the proper number of vouchers with you when making reservations. None will be accepted without a voucher. A floor plan is displayed at the reservation desk in the North Gallery near the registration desk.

**Commercial Exhibits** are located in Regency North and will be open on Wednesday from 6:00 to 8:00 during the Fellowship Reception; Thursday, Friday and Saturday from 8:30 until 5:00 p.m. Members are urged to visit the exhibit hall as often as, and whenever possible.

**Convention Cassettes.** Eastern Audio Associates is again serving as AAE's official recording company and will record most of the sessions and major speeches on cassettes. Instant copies will be available at EA's booth located in the registration area. You may also use the order form included in your registration packet. Please note the box number (S or D - 76 - ) shown in this program next to each event being taped. This is the number to use when ordering cassettes. Sessions being translated will be available in both English and Spanish.

**Florida Continuing Education Credit.** This AAE Annual Session has been approved by the Florida Dental Association Council on Dental Education, Registry number 328. You may claim one (1) credit per hour of scientific lecture.

**Non-AAE Functions.** All events sponsored by study clubs, alumni associations, etc., are listed in the condensed program which appears in the center section of this book.

**Translations.** The following sessions will be simultaneously translated into Spanish: all scientific sessions, the non-graduate research seminars and the AADS (Endodontic Section) Meeting.

The Latin American Section on Friday morning, will be translated from Spanish into English.

All sessions being translated are marked with an asterisk (\*) in the program listing.

**ABOUT SMOKING.** The committee has elected to take the middle of the road. Instead of banning smoking at the scientific sessions, arrangements have been made for smoking sections in the rear of the room. **Smokers** — please consider your non-smoking colleagues and select seats accordingly. For those who are annoyed by smoke, we suggest you take seats at the front of the room.

## PROGRAM

8:45 to 9:00 — Convention Hall  
Welcome: President Uchin

THURSDAY  
April 29, 1976

9:00 to Noon — Convention Hall

SCIENTIFIC SESSION — Moderator: Daniel B. Green, Richmond, VA

### REPLANTATION OF AVULSED TEETH (S76-1)\*

**Jens O. Andreasen** received his D.D.S. in 1959 from the Royal Dental College, Copenhagen, Denmark. Certified in oral surgery, he is currently Associate Director of the Dental Clinic, University Hospital, and Research Associate, Department of Oral Pathology, Royal Dental College, Copenhagen. Dr. Andreasen has authored many publications and done research on traumatic dental and maxillo-facial injuries, replantation and transplantation of teeth, and surgical endodontics.

Synopsis: A replantation procedure is described which is based on recent experimental research in monkeys and clinical material. This procedure is aimed to limit the risk of root resorption and enhance the survival of the periodontal membrane and the pulp.

### ENDODONTICS AND FURCATION THERAPY (S76-2)\*

**Gerald M. Kramer, Boston, MA.** Professor and Chairman, Dept. of Periodontology, Boston University School of Graduate Dentistry; Diplomate and Director of American Board of Periodontology; Chief of Service, Periodontology Section, Reisman Dental Clinic, Beth Israel Hospital, Boston; and Chief of Service, Periodontology Section, Stomatologic Service, University Hospital, Boston University Medical Center, Boston.

Synopsis: In an extension of the course, *Integration of Endodontics with Total Case Planning and Therapy*, the problem of furcation analysis and treatment when periodontists and endodontists are involved in conjoint therapy will be presented in detail.

### THE MORPHOLOGIC AND PHYSIOLOGIC BASIS FOR DENTIN SENSITIVITY (S76-3)\*

**Leif Tronstad, Malmo, Sweden.** Received the degrees Licenciante of Odontology at the Dental Faculty, University of Oslo, and Doctor Of Odontology (Ph.D.) at University of Oslo. Presently Professor and Chairman, Dept. of Endodontics, University of Lund, Malmo. Author of more than 50 publications and guest lecturer at European and American universities.

Synopsis: In contrast to enamel and cementum, the dentin of vital teeth is a sensitive tissue. For a century and a half extensive research has been carried out to elucidate the mechanisms of pain transmission in the dentin, and three main theories have emerged: 1) Direct stimulation of sensory nerves in the dentin (BOLL, 1868); 2) The odontoblasts have a special sensory function, i.e. by way of their processes in the dentinal tubules they receive and transmit stimuli to nerves in the pulp (WHITE, 1871); 3) Mechanical stimulation of nerves in the pulp by movements in the fluid contained within the dentinal tubules (GUSY, 1900). The various theories will be discussed in the light of recent morphologic and physiologic investigations.

\* Indicates program being translated

9:00 to Noon — Mezzanine Theater

**PROJECTED CLINICS (ENGLISH) Chairman, Jack Landsberg, Miami, FL**

- 9:00 — Robert V. Weissman, Fairlawn, NJ  
**Filling with Titanium in fine canals**
- 9:40 — Frank T. Wais, Leesburg, FL  
**Practice Aids in Endodontic Practice**
- 10:20 — Manuel I. Weisman, Augusta, GA  
**Acid-Etch Splinting of Luxated Teeth**
- 11:00 — Yury Kuttler, Mexico  
**Analysis & Comparison of Root Canal Filling Technics**

9:00 to Noon — Capital Room

**PROJECTED CLINICS (SPANISH) Chairman, Jack Landsberg, Miami, FL**

- 9:00 — Juvenal Gonzalez Leon de Peralta, Lima, Peru  
**Apical Impression Filling Technique**
- 10:00 — Oscar A. Maisto, Buenos Aires, Argentina  
**Reparacion Apical y Periapical en Endodoncia**
- 11:00 — Daniel Silva-Herzog, Mexico  
**Obturation of the Canal with the Impression Technique**

9:00 to Noon — Regency East

**ENDODONTIC RESEARCH SEMINAR — GRADUATE STUDENT SECTION**

**Moderator: Samuel Seltzer, Philadelphia, PA**

**9:00 to 9:25**

**Vital Pulpotomy Utilizing Variable Concentrations of Paraformaldehyde in Rhesus Monkeys (S76-4)**  
**Louis C. Peron, University of North Carolina**

Synopsis: The purpose of the study was to determine the effect of various concentrations of paraformaldehyde on pulps of four female rhesus monkeys. The dressing material consisted of paraformaldehyde and zinc oxide mixed with paraffin oil to form a thick, homogenous, non-setting paste. Concentrations of 19%, 5%, 2% and 1% paraformaldehyde were used.

**9:25 to 9:50**

**Evaluation of Root Canal Debridement Techniques (S76-4)**  
**Stephen Littman, University of Maryland**

Synopsis: Prior studies including our own preliminary in vitro investigation, have

demonstrated that all instrumentation techniques are less than ideal in debridement. Using a new method of evaluating preparation techniques, we were able to clearly delineate areas of poor debridement within the root canal systems.

9:50 to 10:15

**A scanning electron microscopic study of the efficacy of various endodontic instruments. (S76-4)**

**Samual J. Mizrahi, Temple University**

Synopsis: The Giromatic broach, hedstroem files, regular files and regular reamers were used to prepare root canals. Assessment of the effectiveness of those instruments was made by scanning electron microscopy. Best results were obtained with regular files and reamers used in combination. The worst results were found when the Giromatic broach was used.

10:15 to 10:40

**Cobalt Radiation and Pulpal Manipulation in Monkeys (S76-5)**

**Richard E. Anglin, University of North Carolina**

Synopsis: The purpose of this study was to evaluate the effects of cobalt radiation in monkeys, both on healthy pulpal tissues and on pulpal and periapical tissues of teeth that received root canal fillings and formocresol pulpotomies.

10:40 to 11:05

**Immune Components in Human Dental Pulp and Periapical Lesions (S76-5)**

**W. H. Pulver, Harvard School of Dental Medicine and Forsyth Dental Center**

Synopsis: This study examined normal and inflamed pulpal tissue as well as periapical lesions for the presence of immune components. Tissues were stained with monospecific fluorescein conjugated anti-human IgG, IgM, IgE, C3 and C4 and examined by means of immunofluorescence microscopy. Results indicate that antibody synthesis may occur locally both in inflamed pulp and periapical lesions.

11:05 to 11:30

**Antigen Antibody Induced Periapical Lesions (S76-6)**

**Mahmood Torabinejad, University of Washington**

Synopsis: The role of immune complexes (IC) in periapical endodontic lesions was investigated to determine the presence, character and severity of IC induced periapical tissue changes. The data from the radiographic and histologic studies of the upper canines of cats suggest that ICs may play, in part, a role in acute and chronic periapical lesions observed in man.

11:30 to Noon

**Viscosity of Gutta Percha and the Flowrate of Gutta Percha (S76-6)**

**William A. Shelton, Jr., Boston University School of Graduate Dentistry**

Synopsis: The historical, chemical and physical aspects of gutta percha will be discussed. Different types and brands of gutta percha and related compounds were heated and extruded through capillaries which approximate the internal dimensions of a root canal system. Data will be reported on shear rates, shear stresses and viscosity. Additionally, data will be reported on hand condensation, effects of aging and mechanical manipulation of gutta percha.

**Noon to 2:00 — Regency West/South**

**LUNCHEON WITH CULTURE**

**Speaker: Fernando Ortiz-Monasterio, M.D.**, Professor of Plastic Surgery, Graduate Division, Medical School, Universidad Nacional Autonoma de Mexico; Director of the Institute of Plastic Surgery, Hospital General de Mexico; Professor of Maxillo-facial Surgery, Dental School, National University of Mexico; Chairman Mexican Board of Plastic Surgery and President of the National Academy of Medicine.

**Panoramic View of Oro-Facial Deformities in Mexico. (S76-7)** A general outline of the cultures that blend to make the history of Mexico will be briefly presented pointing out those characteristics still remaining at the present time. Some cultural traits persisting in isolated groups not incorporated in modern culture have a direct relation with the attitude towards congenital deformities; these will be examined in different ethnic groups taking the opportunity to show some of the folklore.

Our approach to the treatment of congenital deformities around the mouth will be presented emphasizing the adaptation of modern technology to the care of patients in a large well equipped medical center and in the rural area.

**2:00 to 5:00 — Regency East**

**ENDODONTIC RESEARCH SEMINAR — NON-GRADUATE STUDENT SECTION**

**Moderator and Chairman: Melvin Goldman, Worcester, MA**

**2:00 to 2:25**

**Thermomechanical Softened Gutta Percha Technique (S76-8)\*  
Alfonso Moreno, Mexico**

Synopsis: Discussion and photographs of autoradiographic studies will be presented to compare the degree of condensation of root canal fillings. Three techniques will be compared: (1) lateral condensation of gutta percha, (2) silver cone technique and (3) thermomechanically softened gutta percha using the Cavitron.

**2:25 to 2:50**

**An Anatomical Investigation of the Coronal Pulp Chambers of Maxillary and Mandibular, First and Second Molar Teeth, Utilizing a Silicone Rubber Technique (S76-8)\***

**Ronald Sproles\*, Marwan Abou-Rass, University of Southern California**

Synopsis: A specialized vacuum injection technique utilizing silicone rubber material produced exact molds of the coronal root canal chambers. Data from various measurement techniques will be presented to characterize the coronal chamber and adjacent tooth structure. Discovery of a unique cervical pulp chamber and its significance in restorative dentistry will also be discussed.

**2:50 to 3:15**

**Physical Properties of Root Canal Cements (S76-9)\***

**Louis I. Grossman, University of Pennsylvania**

Synopsis: AH 26, Diaket, Kerr sealer, Mynol, N2, N2 no lead, Procosol, Roth 801, Roth 811, RC2B, Tubli-seal, and zinc oxide-eugenol cement were examined for particle size, flow, setting time, adhesion, and peripheral leakage. The results varied in a rather wide range. An examination of the data should help the generalist or endodontist toward a better understanding of the material he is using, and suggest to manufacturers opportunities for improving their products.

**3:15 to 3:40**

**Clinical and Radiographic Investigation of 150 Endodontic Implants (S76-9)\***

**Oscar A. Maisto, Buenos Aires, Argentina**

Synopsis: The authors investigated clinically and radiographically 150 intraosseous endodontic implants made in a period of four years. It was then demonstrated that 110 cases were successful while prognosis in time based upon clinical criterion by acquired experience showed a decrease to 60 successful cases. As final conclusion, authors state that implants, much more than in any other endodontic fulfilment, demand an exhaustive study of each case before and after treatment, the maintenance of occlusal equilibrium and dental rehabilitation, so that initial success may be prolonged in time thus justifying the procedure.

**3:40 to 4:05**

**Clinical Study of Hydron as a Root Canal Filling Material (S76-10)\***

**Lawrence B. Goldman, Tufts University School of Dental Medicine**

Synopsis: For the past several years the authors have published and reported on the histology of Hydron when used as a root canal filling. The present study is a report of its clinical use in humans.

**4:05 to 4:30**

**Revitalization of Pulpless Open Apex Teeth in Rhesus Monkeys Using Collegen-Calcium Phosphate Gel (S76-10)\***

**Alan Nevins, Nassau County Medical Center**

Synopsis: Collagen-calcium phosphate gel appears to be capable of incuding revitalization of pulpless open apex teeth within 12 weeks with various forms of hard and soft connective tissue. Tropo-collagen molecules within the gel spontaneously polymerize at body temperature to form collagen fibrils which are chemotactic for host fibroblasts and also form a microscaffold capable of supporting cellular migration. Dilute solutions of CaCl<sub>2</sub> and K<sub>2</sub>HPO<sub>4</sub> combine within the gel to form hydroxyapatite crystals which serve as a nidus and seed connective tissue ingrowth contributing to its ultimate mineralization. Calcification of this tissue also appears to be influenced by local environmental factors such as inductive capacity of the root canal dentin.

**4:30 to 4:55**

**Acupuncture and Endodontics (S76-10)\***

**Marvin A. Gross\*, Donald Morse, Temple University**

Synopsis: A clinical study is presented in which acupuncture was used for attempted analgesia for ten teeth in eight patients. The teeth were endodontically involved with vital pulps. Combinations of dental and non-dental acupuncture sites were used. Needle insertion was by electrical and manual methods. The results showed: 1) acupuncture, by itself, was effective enough to allow for pain-free pulpal extirpation and instrumentation in one case; 2) acupuncture had to be supplemented by a small amount of intra-pulpal local anesthesia in six cases; 3) acupuncture had to be augmented by a small dose of an inferior alveolar local anesthetic injection in one case; and, 4) no analgesia resulted from acupuncture use in two cases.

**2:00 to 5:00 — Convention Hall**

**SCIENTIFIC SESSION — Moderator: Howard Martin, Silver Spring, MD**

**ANOTHER VIEW OF THE "SIMPLIFIED" ENDODONTIC METHOD (A CRITICAL ANALYSIS)\***

**Stephen Cohen, San Francisco, CA**

Synopsis: This presentation will discuss materials and methods of the various paste type fillings.

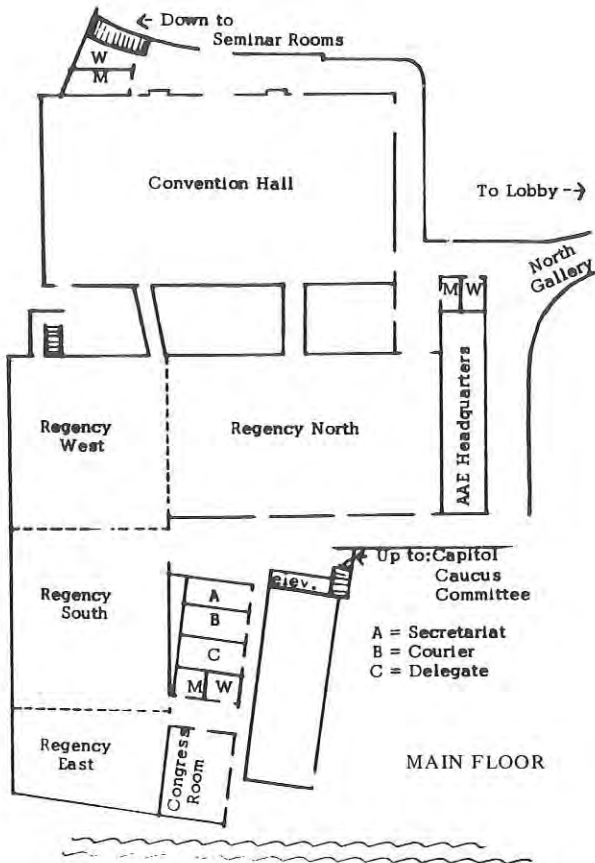
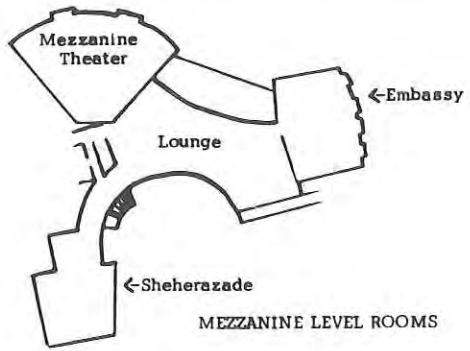
**MAY I HAVE THE FIRST SLIDE PLEASE? (REVISITED)\***

**Richard C. Burns, San Mateo, CA, Noah Chivian, West Orange, NJ, Stephen Cohen and John Sapone, San Francisco, CA.**

Synopsis: Solid scientific material is the basis of any fine lecture. Sharp, clean graphics raise the status of a good paper to a superb presentation. Burns will illustrate the use of color, interesting letterface, transfer materials and good composition. Chivian will explore the evolution of the title slide with progressive examples of the simplest write-on to the elaborate collage. He will discuss multiple projection techniques, progressive disclosure and continuity in his E.S.P. (effective slide presentation) series. Consider how to end a slide essay. Lack of thunderous applause and standing ovations at the end of a heavy presentation can demoralize a good clinician. Sapone says, "Try a mini-essay finale. Most of us have the material, let's put it to use."

**10:30 to Midnight — Regency South**

**LATE NIGHT HOSPITALITY**



DIPLOMAT MEETING ROOMS



**TUESDAY, April 27, 1976**

9:00 a.m. to 5:00 p.m.

**ABE Written Examination** . . . . . Capitol Room  
**ABE Oral Examinations** . . . . . Courier & Secretariat Rooms  
**Endowment & Memorial Foundation Trustees Meeting** . . . . . Committee Room

**WEDNESDAY, April 28, 1976**

9:00 a.m. to 5:00 p.m.

**AAE Executive Committee Meeting** . . . . . Congress Room  
**ABE Oral Examinations** . . . . . Courier & Secretariat Rooms  
**Continuing Education Course (Stanley)** . . . . . Mezzanine Theater  
**Continuing Education Course (Kramer)** . . . . . Capitol Room

9:00 a.m. to 6:00 p.m.

**Registration** . . . . . North Gallery

12:30 p.m.

**Golf Tournament** . . . . . Diplomat Presidential Course

**Tennis Tournament** . . . . . Diplomat Racket Club

5:30 p.m. to 6:15 p.m.

**International Reception** . . . . . President's Suite-Penthouse

6:00 p.m. to 8:00 p.m.

**Opening of Commercial Exhibits** . . . . . Regency North

**Fellowship Reception** . . . . . Regency North/West

**THURSDAY, April 29, 1976**

7:00 a.m. to 8:45 a.m.

**New Member & Graduate Student Breakfast** . . . . . Regency South

8:00 a.m. to 6:00 p.m.

**Registration** . . . . . North Gallery

8:30 a.m. to 5:00 p.m.

**Commercial Exhibits** . . . . . Regency North

8:45 a.m. to 10:00 a.m.

**Graduate Student Section Meeting** . . . . . Regency South

8:45 a.m. to 9:00 a.m.

**Welcome: President Uchin** . . . . . Convention Hall

9:00 a.m. to Noon

**Scientific Session\*** . . . . . Convention Hall

**Projected Clinics (English)** . . . . . Mezzanine Theater

**Projected Clinics (Spanish)** . . . . . Capitol Room

**Endodontic Research Seminar-Grad. Student** . . . . . Regency East

Noon to 2:00 p.m.

**Luncheon and Culture\*** . . . . . Regency West/South

2:00 p.m. to 5:00 p.m.

**Scientific Session\*** . . . . . Convention Hall

**Endodontic Research Seminar-Non-Grad. Student\*** . . . . . Regency East

6:30 p.m. to 8:00 p.m.

**Univ. of Pa. Endodontic Alumni Party** . . . . . Embassy Room

**Tri-State Society of Endodontists' Party** . . . . . Sheherazade Room

**Univ. of Wash. Graduate Endo Alumni Party** . . . . . Congress Room

10:30 p.m. to Midnight

**Late Night Hospitality** . . . . . Regency South

**FRIDAY, April 30, 1976**

7:30 a.m. to 8:45 a.m.

**Committee Breakfast Meetings** . . . . . Mezzanine Theater  
 (International Relations, Honors & Awards, Peer Review and Editorial Board)

8:00 a.m. to 6:00 p.m.

**Registration** . . . . . North Gallery

## PROGRAM

8:30 a.m. to 5:00 p.m.	<b>Commercial Exhibits</b> .....	Regency North
9:00 a.m. to Noon	<b>Scientific Session*</b> .....	Convention Hall
	<b>Latin American Section*</b> .....	Regency East
Noon to 2:00 p.m.	<b>Luncheon with Learning.</b> .....	Assigned Rooms (See Ticket)
2:00 p.m. to 5:00 p.m.	<b>Endodontic Research Seminar-Non-Grad. Student*</b> .....	Regency East
	<b>Audio-Visual Presentations</b> .....	Convention Hall
	<b>Audio-Visual Presentations</b> .....	Mezzanine Theater
	<b>Audio-Visual Presentations</b> .....	Capitol Room
6:30 p.m. to 9:00 p.m.	<b>Army Endo Party</b> .....	Mezzanine Theater
7:00 p.m. to 9:00 p.m.	<b>Boston Univ. Endodontic Alumni Party</b> .....	Congress Room
10:30 p.m. to midnight	<b>Late Night Hospitality</b> .....	Regency South

### SATURDAY, May 1, 1976

7:00 a.m. to 8:45 a.m.	<b>Boston Univ. Alumni Breakfast</b> .....	Congress Room
7:30 a.m. to 8:45 a.m.	<b>Harry Healey Study Club Breakfast</b> .....	Mezzanine Theater
	<b>Navy Endo Breakfast.</b> .....	Caucus Room
8:00 a.m. to 5:00 p.m.	<b>Registration.</b> .....	North Gallery
8:30 a.m. to 5:00 p.m.	<b>Commercial Exhibits</b> .....	Regency North
9:00 a.m. to Noon	<b>Scientific Session*</b> .....	Convention Hall
	<b>AADS — Endodontic Section Meeting*</b> .....	Capitol Room
	<b>Table Clinics.</b> .....	Regency East
Noon to 2:00 p.m.	<b>Edgar D. Coolidge Memorial Luncheon*</b> .....	Regency West/South
2:00 p.m. to 4:00 p.m.	<b>Scientific Session*</b> .....	Convention Hall
4:00 p.m. to 6:00 p.m.	<b>AAE Annual Meeting.</b> .....	Capitol Room
6:30 p.m. to 7:30 p.m.	<b>Past Presidents' Reception</b> .....	Poolside
7:30 p.m. to 1:00 a.m.	<b>Annual Banquet/Dance</b> .....	Regency Ballroom

### SUNDAY, May 2, 1976

8:30 a.m. to Noon	<b>AAE Executive Committee Meeting</b> .....	Congress Room
9:00 a.m. to 10:30 a.m.	<b>Group Practice Meeting</b> .....	Caucus Room
9:00 a.m. to 5:00 p.m.	<b>ABE Meeting</b> .....	Secretariat Room
9:30 a.m. to Noon	<b>Audio-Visual Presentations</b> .....	Regency East
	<b>Audio-Visual Presentations</b> .....	Mezzanine Theater

\* Indicates sessions being translated

**WOMEN'S AUXILIARY OF AAE  
CONDENSED PROGRAM  
WEDNESDAY, April 28, 1976**

- 10:00 to 5:00  
**Registration** . . . . . North Gallery
- 11:30  
**Golf Tournament** . . . . . Diplomat President's Course  
Buses at main entrance
- 12:15  
**Tennis Tournament** . . . . . Diplomat Racket Club  
Buses at main entrance
- 2:00 to 4:00  
**Wine 'n' Welcome (Terrarium Teach-in)** . . . . . Scheherazade Room
- 4:00  
**Auxiliary Board Meeting** . . . . . Lower Sky Room
- 6:00 to 8:00  
**Fellowship Reception Extraordinaire** . . . . . Regency North/West

**THURSDAY, April 29, 1976**

- 8:00 to 9:30  
**Hospitality (Coffee and Danish)** . . . . . Scheherazade Room
- 8:30 to 5:00  
**Registration** . . . . . North Gallery
- 8:45 to 1:00  
**Seaquarium Sight Sea** . . . . . Buses at main entrance
- 10:45 to 4:30  
**Bal/Bay Harbour Bonanza** . . . . . Shuttle bus at main entrance
- 12:00 to 2:00  
**Luncheon 'n' Culture (Dr. Monasterio)** . . . . . Regency West/South
- 10:30 to midnight  
**Late Night Hospitality (Coffee and dessert)** . . . . . Regency South

**FRIDAY, April 30, 1976**

- 8:00 to 9:30  
**Hospitality (Coffee and Danish)** . . . . . Scheherazade Room
- 9:00 to 1:00  
**Registration** . . . . . North Gallery
- 9:45 to 3:00  
**Seafari to Patricia Murphy's Restaurant** . . . . . Meet at main entrance
- 10:30 to midnight  
**Late Night Hospitality (Coffee and dessert)** . . . . . Regency South

**SATURDAY, May 1, 1976**

- 9:30 to 11:30  
**"Sex in '76" Breakfast (Dr. Haber)** . . . . . Cafe Cristal
- 12:00 to 2:00  
**Coolidge Memorial Luncheon (H. Christensen)** . . . . . Regency West/South
- 2:00 to 4:00  
**H.E.L.P Seminar (Dr. Pilling)** . . . . . Convention Hall
- 4:00  
**Auxiliary Board Meeting** . . . . . Lower Sky Room
- 6:30 to 7:30  
**Past Presidents' Reception** . . . . . Poolside
- 7:30 to 1:00  
**Dinner Dance Supreme** . . . . . Regency Ballroom

9:00 to Noon- Convention Hall

**SCIENTIFIC SESSION — Moderator: Donald E. Arens, Indianapolis, IN**

**THE PATHOPHYSIOLOGY OF FACIAL PAIN AND VASCULAR PAIN THAT MIMICS PULPAL PAIN (D76-14A)\***

**Parker E. Mahan**, received his D.D.S. from Emory University in 1955 and his Ph.D. in Physiology from the University of Rochester in 1964. From 1962 until 1971, he taught courses in Head and Neck Physiology and Biochemistry at Emory University School of Dentistry, where he advanced to Professor and Coordinator of Basic Sciences for Dentistry. From 1971 to the present time, Dr. Mahan has been Professor and Chairman of the Department of Basic Dental Sciences at the University of Florida, College of Dentistry. He also serves as a Consultant (Dentist, Physiology) to the U.S. Army Dental Corp and as Central Office Consultant to the Veterans Administration.

**Synopsis:** In this one hour lecture the detailed anatomy of the pain system in the head and neck will be described. Current theories of pain perception and how these concepts can be used in dental therapy will be presented. The specificity theory, gate control theory and central inhibitory balance theories will be described in order to develop the modern concept on pain perception.

**LUXATION OF PRIMARY AND PERMANENT TEETH — DIAGNOSIS AND TREATMENT (S76-15)\***

**Jens O. Andreasen, Copenhagen, Denmark.**

**Synopsis:** Diagnostic and treatment procedures are described for injuries involving the primary and the permanent dentition. In the primary dentition the focus of interest is the influence of trauma and inflammation upon the permanent tooth germs. Pulpal pathology after traumatic dental injuries is described for different types of luxation injuries.

**THE USE OF CALCIUM HYDROXIDE IN ENDODONTIC THERAPY (S76-16)\***

**Leif Tronstad, Malmö, Sweden**

**Synopsis:** Some 50 years ago calcium hydroxide was introduced in endodontic practice as *the* biologic root filling material. This was a fiasco because the material was resorbed from the root canal rather rapidly. However, since then one might have received the impression that calcium hydroxide has been recommended and used for almost any purpose in endodontic therapy; for instance as a base material in deep cavities, as a pulp capping agent, as a wound dressing in pulpotomies, and more recently it is again used in root canal treatment. The material has especially been recommended in the treatment of so called problem teeth, i.e. teeth with open apices, internal and external root resorption, root fractures and so on. Is calcium hydroxide really a "wonder drug", or is it what some leading endodontists maintain, "strictly poison"?

9:00 to Noon — Regency East

LATIN AMERICAN SECTION — Chairman: Jose Oynick, Mexico  
Moderator: Enrique Basrani, Argentina

ENDODONTIC PROBLEMS IN MOLARS (S76-17)\*  
Angel Lasala, Venezuela

ANTI BACTERIAL EFFICACY AND CYTOTOXICITY OF THREE ROOT CANAL  
SEALERS (S76-18)\*  
Antonio Rothier, Brasil

CLINICAL AND HISTOLOGICAL EVALUATION OF A NEW MATERIAL FOR  
RETRO-FILLINGS (S76-19)\*  
Jose Oynick, Mexico

Noon to 2:00 — Assigned rooms

LUNCHEON WITH LEARNING — Chairman: Stuart Fountain, Greensboro, NC

1. **The Giromatic: Fact or Fantasy** — Robert E. Cassidy
2. **Drug Therapy and the Endodontic Patient** — John Corcoran
3. **Endodontics and the Irradiated Patient** — Frederick Cox
4. **Modern Endodontic Corporate Group Practice Facility** — A. Dietz, G. Dietz,  
J. Dylewski, M. Eder and C. Botvinick
5. **Treatment of the Wide-Open Apex in Three Dimensions** — Roland Duell
6. **Contents of the Predoctoral Endodontic Curriculum** — Joel Dunsky
7. **The Relationship of the Endodontist to the Referring Dentist and Other  
Disciplines** — Harold Gerstein
8. **Oral Facial Trauma** — James Gutmann
9. **A Simplified Method of Treatment for Endodontic Perforations** — William  
Harris
10. **Clinical and Biologic Evaluation of Sealants in Combination with a Solid  
Core** — Kaare Langeland
11. **Replants and Calcium Hydroxide** — H. Wayne Mohorn
12. **Treatment of the Endo-Perio Lesion** — Seymour Oliet
13. **Premedication of the Apprehensive Endodontic Patient** — Alan Selbst
14. **Endodontic Root Extrusion: Technique and Problems** — James Simon

15. **Esoteric Aspects of Gutta Percha Condensation** — James Steiner

**International Section**

16. **Research at the U.S. Army Institute of Dental Research** — Carlos del Rio

17. **Treatment of the Gangrenous Pulp and its Periapical Complications** — M. Leticia Shocron

or

**Endodontic Emergencies** — Harold Rappaport

2:00 to 5:00 — Regency East

**ENDODONTIC RESEARCH SEMINAR — NON-GRADUATE STUDENTS**

**Moderator: Richard Moodnik, Hempstead, NY**

2:00 to 2:25

**A Study of the Relationship of the Mandibular Canal to the Apices of the Mandibular Second Bicuspid, First Molar, and Second Molar in Dried Human Mandibles**

**Arthur Panella\*, Marwan Abou-Rass, University of Southern California (S76-11)\***

Synopsis: The purpose of this study was to investigate the relationship of the mandibular canal to the apices of the mandibular second bicuspid, first molar and second molar, and to attempt to establish a possible set of arithmetical averages of the relationship between these teeth and the mandibular canal. The study was conducted on 50 dried human mandibles which were radiographed, embedded in epoxy resin, and sectioned. Endodontic files were placed in all root canals, and a nylon marker was used to identify the mandibular canal. The sectioned specimens were ground on a surface grinder until the apical foramen was visible. The results indicate a variable yet very close proximity of mandibular canal with these mandibular teeth.

2:25 to 2:50

**Use of Meditative Study for Hypnotic Induction in the Practice of Endodontics (S76-11)\***

**Donald Morse, Temple University**

Synopsis: Thirty-five patients who were referred for endodontic therapy were used in this study. They were told to relax, close their eyes and repeat silently a simple word (e.g. "flower"). As they were repeating the sound, suggestions were given of numbness spreading from the tips of the toes to the facial area. Next, the patients were told to stop repeating the sound. Deepening was then obtained by the descending elevator method. With most individuals, it was possible to redirect the numbness to the specific tooth being worked on. With others, it was necessary to obtain "glove" anesthesia and then transferral of anesthesia orally. Depending upon the clinical condition and the degree of hypno-analgesia, supplemental local

anesthesia was or was not used. The time interval from eye closure to the completed suggestion of numbness was 7-8 minutes. With most patients, treatment was initiated within 10-15 minutes from the time of eye closure.

**2:50 to 3:15**

**Inhibition of the Corrosive Effect of Sodium Hypochloride on Carbon Steel Endodontic Instruments (S76-11)\***

**Solomon Sorin, University of Pennsylvania**

Synopsis: The corrosive effect of sodium hypochloride on endodontic instruments increased with temperature, previous corrosion and presence of tooth material; and decreased with dilution and repeated use of tooth material. Although 15 out of 17 inhibitors decreased the rate of corrosion and none entirely eliminated corrosion, four inhibitors were sufficiently effective to warrant further investigation.

**3:15 to 3:40**

**A New Method of Canal Irrigation (S76-12)\***

**Melvin Goldman, Tufts University**

Synopsis: Much has been written lately about the efficacy or lack of it, of endodontic irrigating solutions. However, the method of delivery of the solution has been neglected. This paper outlines a new method of delivery of any solution, which is far more efficient than present methods.

**3:40 to 4:05**

**The Sequenced Response of Pulpal, Periapical and Periodontal Tissues to Bacteria (S76-12)\***

**William E. Dowden, University of Connecticut Health Center**

Synopsis: Selected teeth from patients with caries and periodontal disease were evaluated clinically before the teeth were extracted. Following extraction the teeth were histologically prepared, sectioned, and evaluated microscopically. On the basis of hemotoxylin and easin staining, a histopathologic diagnosis was established, selected sections were stained for bacteria, and the results were compared to the foregoing diagnosis and will be presented.

**4:05 to 4:25**

**A Comparison of Intracanal Medications (S76-13)\***

**Arturo Chavez y Chavez, Guadalajara, Jalisco, Mexico**

Synopsis: The project is made up of two studies of different antiseptic drugs that are utilized as intracanal medication between appointments in endodontic therapy. The first study has two aspects: a) On the irritation potential on rabbit's eye and b) An in vitro study of the bactericidal capacity of the same medicaments. These medicaments are paramonochlorphenol 1%, 2% and 35%; pure cresatin; and a mixture of equal parts of 35% paramonochlorphenol and cresatin. The second study is an in vitro study of the diffusion of three medicaments in the root canal: Cresatin, 35% paramonochlorphenol and a mixture of equal parts of the two.

4:25 to 4:45

**Process of Resorption of Root Canal Sealers (S76-13)\***  
**Margarita Muruzabal, Buenos Aires, Argentina**

Synopsis: The purpose of this presentation is to evaluate degree of resorbability of some root canal sealers in the rat molar. All sealers and pastes studied are resorbable (particles of them were observed in macrophages and foreign body cells). They resorb more rapidly in the periapical area. Within the root canal, the greater the distance of the sealer from the apical foramen, the slower the rate of removal process. AH26, titanium oxide or aluminum oxide specimens, showed a tendency to dispersion. Zinc oxide-eugenol and lead oxide-eugenol specimens exhibited high stability; evidence of dissolution could not be detected. Components of some sealers were transported away from the zone originally applied.

4:45 to 5:10

**Analysis of the Effect of Edtac and RC-Prep on the Dentin Walls of the Root Canal (S76-13)\***  
**Abraham Abramovich and Fernando Goldberg, Buenos Aires, Argentina**

Synopsis: This is an "in vitro" comparative study of the action of Edtac and RC-Prep on the dentin walls of the root canal using scanning electron microscope. The dentin walls treated with Edtac showed a smooth, clean surface, and the diameter of the opening of the dentinal tubules was greater than in the untreated sections. The dentin walls treated with RC-Prep showed similar to the untreated sections.

2:00 to 5:00 (Three rooms)

**AUDIO-VISUAL PRESENTATIONS**

**Chairman: James E. Ainley, Orlando, FL**

2:00 to 3:40 — Convention Hall

**Human Pulp Response to Operative Dental Procedures**  
**Harold Stanley, University of Florida**

Synopsis: This presentation provides an overview of the biological response of the pulp not only to dental caries but also to the effects of cavity preparation and restoration. (*Film, courtesy of Dr. Stanley*)

3:45 to 5:00 — Convention Hall

**The Biology of Pulp Capping Procedures**  
**Harold Stanley, University of Florida**

Synopsis: This presentation explains the success and failure in pulp capping procedures. Emphasis is placed on what went wrong regardless of the material utilized. (*Film, courtesy of Dr. Stanley*)



FRIDAY  
April 30, 1976

2:00 to 4:30 — Mezzanine Theater

**The Warm Gutta Percha Technique**  
**Herbert Schilder, Boston, MA**

Synopsis: The presentation reviews the biologic concepts basic to non-surgical endodontics, demonstrates the technique for cleaning and shaping, and illustrates the vertical condensation of warm gutta percha into the prepared canal. (*Film, courtesy of Dr. Frank Trice, University of Texas*)

2:00 to 4:30 — Capitol Room

**Endodontic Emergency Treatment**  
**Franklin S. Weine, Chicago, IL**

Synopsis: This presentation demonstrates the treatment of acute pulpitis or acute pulpitis with apical periodontitis, acute alveolar abscess, the closing of a tooth that has been left open for drainage, the treatment of secondary pericementitis due to over-instrumentation, and surgical repair of a perforation. (*Film, courtesy of Dr. Samuel Patterson, Indiana University*)

10:30 to Midnight — Regency South

LATE NIGHT HOSPITALITY

SATURDAY  
May 1, 1976

9:00 to Noon — Convention Hall

SCIENTIFIC SESSION — Moderator: Edward M. Osetek, Great Lakes, IL

**THE PATHOPHYSIOLOGY OF FACIAL PAIN AND VASCULAR PAIN THAT MIMICS PULPAL PAIN (D76-14B)\***

**Parker Mahan, University of Florida**

Synopsis: In this one hour lecture vascular head and neck pain and referred pain involving the teeth and mandible will be described. Case histories will be presented to illustrate the differential diagnosis of head and neck pain.

**ENDODONTIC THERAPY: ISSUES AND ANSWERS (S76-20)\***

**John W. Harrison, Madigan Army Medical Center**

Synopsis: "Issues and Answers" will be a discussion of some of the current issues which endodontists find controversial in nature. Many of these issues have recently been resolved through clinical and laboratory research, much of it not yet published. Topics will include specific issues involving canal debridement, instrumentation, irrigation, intracanal medication and temporary restorative materials. The incidence and quantitation of bacteremias induced by specific endodontic proce-

dures will be reported for the first time. Issues pertaining to surgical endodontic therapy will also be discussed.

**THE OLD MAN AND THE PULP. A SWAN SONG. (S76-21)\***

**Birger Nygaard-Ostby, Oslo, Norway**

Synopsis: Approximately 1000 roots, treated endodontically by the lecturer, have been checked after observation periods ranging from four to 40 years, the mean being around 20 years. Data from the treatment charts and from the clinical and radiographic follow-up examination have been computerized, and a survey of the results will be presented, accompanied by histologic control of some of the roots, which had to be extracted because of caries, external resorption and/or fracture.

**9:00 to Noon - Capitol Room**

**AMERICAN ASSOCIATION OF DENTAL SCHOOLS (ENDODONTIC SECTION)**

**ENDODONTICS: ASSESSMENT OF THE BASIC PRINCIPLES (D76-22A&B)**

**Moderator: A.E. Skidmore, West Virginia University**

**Evaluation of Basic Principles of Clinical Endodontics  
Herbert Schilder, Boston University**

**Evaluation of the Delivery of Endodontic Services  
Jay Friedman, Los Angeles, CA**

**Evaluation of Endodontic Education  
Marwan Abou-Rass, University of Southern California**

**Evaluation of the Quality of Endodontic Research  
Kaare Langeland, University of Connecticut**

**Evaluation of the Biological Principles of Endodontic Practice  
Calvin Torneck, University of Toronto**

**Panel Discussion**

**9:00 to Noon Regency East**

**TABLE CLINICS- Chairman: Ben Brown, Raleigh, NC**

- 1. Maximum-Minimum and Average Tooth Length Table. An Aid in Endodontics.** Guillermo Mora-Roja, San Jose, Costa Rica
- 2. A Scanning Electron Microscope Examination of the Walls of Small Canals After Chemomechanical Preparation.** Oscar Bolanos, University of Minnesota

3. **Effects of Steroids on Pulpal Oxygen Consumption and Blood Flow**  
Romulo DeLeon, University of Minnesota
4. **Sealability Study of Different Retro-filling Materials in Vivo** Phillippe Delivanis,
5. **Photography in Endodontics**  
Greg Chadwick and David Lukosik, University of North Carolina
6. **Are You Going Soft?**  
Thomas Buttler and John Olmstead, University of North Carolina
7. **Formacresol: Pros and Cons**  
Donald Kleier and Keith Mullins, University of Kentucky
8. **Treatment Plan for sick Radiographs**  
David Maddox, Medical College of Georgia
9. **Operation of the Sono-Explorer**  
William Meyers, VA Hospital, Miami, FL
10. **Endodontic Pitfalls - The Missed Extra Canal**  
Elliot Goldberg, Gary Ries and Lorne Chapnick, Tufts University
11. **Tid-Bits**  
John Hartness, Rocky Mount, NC
12. **Fiber Optics in Endodontics**  
Thomas McDonald, Emory University
13. **Thermomechanically Softened Gutta Percha Technique Using a Cavitron**  
Alfonso Moreno, Monterey, Mexico
14. **Atraumatic Tooth Stabilization**  
Eric Hovland, Medical College of Virginia
15. **The Application of Clinical Radionuclide Imaging in an Experimental Evaluation of Endodontic Procedures.**  
Daniel Garcia, Conrad Jungmann and Thomas Sullivan, Warwick, R.I.
16. **A Working Experimental Model to Implant Materials into Laboratory Animals and a Histological Comparison of Materials**  
Jack Levi, Teaneck, NJ
17. **Precision Radiographs Duplication**  
Manuel I. Weisman, Augusta, Ga.

Noon to 2:00 - Regency West/South

**EDGAR D. COOLIDGE MEMORIAL LUNCHEON**

**Speaker: Hal M. Christensen, Director ADA Washington office**  
**"Current National Legislation as it Affects Dentistry" (S76-23)\***

2:00 to 4:00 - Convention Hall

**SCIENTIFIC SESSION**

**PSYCHOLOGICAL ASPECTS OF THE DENTAL PATIENT \***

**Loran F. Pilling** is at present a psychiatrist with the Minneapolis Clinic of Psychiatry and Neurology. He is the Director of the Minneapolis Pain Clinic as well as the Metropolitan Pain Rehabilitation Center. Prior to joining the Minneapolis Clinic he was with the Mayo Clinic for 11 years, first as a resident in internal medicine and psychiatry and later as a Staff Psychiatrist. Dr. Pilling has the degrees of Bachelor of Science, Master of Science in Psychiatry and Doctor of Medicine. He is certified as a specialist in psychiatry by the American Board of Psychiatry and Neurology; is an Associate Professor at the University of Minnesota and a Fellow of the American Psychiatric Association.

Synopsis: The practices of dentistry and psychiatry have taken place in opposite corners of the medical community and should be more closely united for better care of the patient. For the dentist to be more help to his patient, he must understand the emotional problems his patient is confronted with. His approach to the patient or the procedures he is considering may be altered depending upon the patient's emotional state. This state frequently varies from anxiety to depression. Symptoms presented to a dentist may be produced by emotional problems through the conversion hysteria process, hypochondriasis, or paranoid delusions.

Pain, a frequent symptom in the practice of dentistry or psychiatry, is the most difficult symptom for a doctor to deal with. It is the most difficult because of its subjective nature and also because its etiology may be either organic or psychogenic. A discussion of the pain problem and its effect on the patient and on the doctor is most appropriate in a symposium such as this. Last, but not least, a look at ourselves and our own needs will make our care of our patients better. Doctors in all fields sometimes have the problem of putting their own needs ahead of the patient's needs. When this occurs, the patient suffers. Whatever we can do to recognize our own "hang-ups" will help us to be better therapists.

4:00 to 6:00 — Capitol Room

**ANNUAL BUSINESS MEETING**

6:30 to 7:30 - Poolside or Convention Hall A&B

**PAST PRESIDENTS' RECEPTION**

7:30 to 1:00 A.M. - Regency Ballroom

**PRESIDENTS' BANQUET**

Special salute to Bicentennial Celebration  
Entertainment by the New Direction Singers  
Dancing to the music of the Jerry Marshall Orchestra

**BICENTENNIAL TRIBUTE**

At the banquet Saturday evening, a special film entitled, *America the Beautiful*, will be presented. Produced for, and made available to us by the American Society of Association Executives, this seven-minute three-screen multi-media presentation is a portion of a larger production called "*One Out of Many*." The theme is the English translation of our National Motto "E Pluribus Unum". It can be applied not only to the nation, but also to the composition and nature of our association. In other words, one organization made up of many members but unified for a common purpose. "*One Out of Many*" received the award for excellence at the International Film Festival in 1975.

**IN MEMORIAM**

This meeting is dedicated to the memory of Dr. Gerald I. Wernick whose contributions to endodontics were many, including his serving as General Arrangements Chairman of this thirty-third Annual Session. He was suddenly taken from us April 9, 1976. May his achievements serve as a lasting inspiration to us all.



9:00 to 11:30 (Two Rooms)

**AUDIO VISUAL PRESENTATIONS- Chairman: James Ainley**

9:00 to 11:30 - Regency East

**Endodontic Surgery**  
**Harold Gerstein, Chicago, IL**

Synopsis: This presentation emphasizes thorough diagnosis, use of proper armamentarium, and good surgical technique in performing endodontic therapy. A surgical procedure is demonstrated involving and apicoectomy both on an initially affected tooth and on a tooth upon which root canal therapy has failed. (Film, courtesy of Dr. Samuel Patterson, Indiana University)

9:00 to 11:00 - Mezzanine Theater

**Endodontic Therapy and Endodontic Implant**  
**Alfred L. Frank, Los Angeles, CA**

Synopsis: This presentation demonstrates therapy for the divergent pulpless tooth by continued apical development. The endodontic implant procedure demonstrates the considerations for the indications and contraindications, and the use of a standardized instrumentarium in integrating this procedure with sound endodontic principles. (Film, courtesy of Dr. Marshall Smulson, Loyola University)

11:00 to 11:45 — Mezzanine Theater

**A Simplified Technique of Endodontic Therapy in One Visit**  
**Helio de Frietas e Silva, Brasil**

Synopsis: A simplified one-sitting root canal filling technique employing a zinc-oxide base paste filling material. Post treatment evaluation over an extensive period indicates a comparable high success rate.

## 1976 AAE EXHIBITORS

	<i>Booth No.</i>		<i>Booth No.</i>
AMADENT American Medical & Dental Corp. Box 3422 Cherry Hill, N.J. 08034	17	Ives Laboratories, Inc. 685 Third Ave. New York, N.Y. 10017	21
American Massage, Inc. Box 5291 Lighthouse Point, Florida 33064	8	Ivory, Inc., J.W. 308 No. 16th St. Philadelphia, Pa. 19102	6
Chayes Virginia Corp. 423 Diamond Ave. Evansville, Ind. 47711	10	Kerr Manufacturing Co. 28200 Wick Road Romulus, Mich. 48174	5
Columbus Dental 634 Wager St. Columbus, Ohio 43206	6	Lea & Fabiger 600 S. Washington Square Philadelphia, PA 19106	7
Dine, Inc., Lester A. 2080 Jericho Turnpike New Hyde Park, NY 11040	14	Libin & Associates 3187 Wilshire Blvd. Los Angeles, CA 90010	15
Dri-Clave Corp. 54 Kinkel St. Westbury, N.Y. 11590	6	Lippincott Company, J.B. East Washington Square Philadelphia, Pa. 19105	39
Electropedic Products 4205 Burbank Blvd. Burbank, CA 91505	35	Medidenta Dental supply Corp. 39-23 62nd Street Woodside, NY 11377	38
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**34th Annual Meeting**  
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**35th Annual Meeting**  
April 12 — 16, 1978  
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**36th Annual Meeting**  
April 25 — 29, 1979  
Peachtree Center Plaza Hotel  
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**37th Annual Meeting**  
April 16 — 20, 1980  
Century Plaza Hotel  
Los Angeles, California