

UNITED  
STATES

*American Association  
of Endodontists  
Thirty-Fourth Meeting  
April 13 thru April 17, 1977  
Hyatt Regency Houston  
Houston, Texas*

The artist, Sharon Eaton Anderson of San Antonio, designed our cover to depict some of the sights that have made Houston famous. Together they represent concepts of today and tomorrow — a suitable theme for the AAE Annual Session, 1977.

## PRESIDENT'S WELCOME

It is a pleasure to welcome you to our Thirty-fourth Annual Session. The hope of all concerned with planning and executing the meeting is that you will enjoy and learn.

My appreciation is extended to Stephen Schwartz, Program Chairman, and Burt Kunik, General Arrangements Chairman. They both had outstanding help from their members. Special recognition goes to Elly Baker, Executive Director, for her efforts toward the entire meeting and to Sharon Schwartz and Mary Kunik for the auxiliary program.

During the years the complexities of the problems associated with our profession have grown far beyond our past perceptions. The interactions that occur at our annual meetings make a valuable contribution toward understanding and solving these problems. The general atmosphere of the meeting, combined with the learning experiences and an environment that leads to friendships based on mutual respect, is always a memorable experience.

I wish to express my thanks to the officers, the Executive Committee, and the general membership for their efforts in making this past year another step forward in the growth of endodontics. It has been a privilege to serve you.

Frank B. Trice  
President



**PROGRAM  
CHAIRMAN'S  
WELCOME**

The American Association of Endodontists boasts a membership with interests ranging from basic science research to the translation of sound biologic principles and practical procedures into the everyday clinical environment. In respect to these varied interests, we have put together a program which offers something for everyone. The only apology we offer is in regard to the difficulty you may have in selecting what you want to hear. If it sounds like we're proud it's only partly due to our Texas background, the remainder of our pride is in our member and guest clinicians and their exciting subject matter. We are also proud to offer simultaneous translation of a portion of our scientific program into Spanish and Japanese for our foreign members and guests.

I wish to express my sincere gratitude to Burt Kunik, General Arrangement Chairman and to the Program Committee members, Russell Grandich, Alan Selbst, Malcolm Bekoff and Frank Kasman for an outstanding job. Special thanks must go to Elly Baker and her staff for their coordination, motivation and untiring devotion toward making this a successful and rewarding program.

Stephen F. Schwartz, D.D.S., M.S.  
Program Chairman

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# AMERICAN ASSOCIATION OF ENDODONTISTS

## OFFICERS



Frank B. Trice  
*President*



George A. Zurkow  
*President Elect*



Harry Blechman  
*Vice President*



Henry J. Van Hassel  
*Secretary*



Edward M. Osetek  
*Treasurer*



Worth B. Gregory, Jr.  
*Editor*

## EXECUTIVE COMMITTEE

**1977**

Donald E. Arens  
Noah Chivian  
R. J. Shankle

**1978**

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

**1979**

Gerald W. Harrington  
John W. Harrison  
Richard E. Schmidt

*Immediate Past President: Robert A. Uchin*  
*Student Representative: David L. Pitts*  
*Executive Director: Elenore L. Baker*

## AMERICAN BOARD OF ENDODONTICS

**1977**

Michael A. Heuer, *pres.*  
Seymour Oliet  
Marshall H. Smulson

**1978**

Melvin Goldman  
Thomas Mullaney  
Calvin D. Torneck

**1979**

Dudley H. Glick  
Richard M. Moodnick  
Irving J. Naidorf, *secy.*

## TRUSTEES, AAE ENDOWMENT AND MEMORIAL FOUNDATION

**1977**

Richard C. Burns, *chm.*  
H. David Prensky  
Warren T. Wakai

**1978**

Harold H. Epstein  
Leo Grudin, *secy.*  
George C. Israel

**1979**

Lester M. Breen  
Stephen F. Schwartz, *v. chm.*  
Walter Soltanoff

*Ex Officio:* Henry J. Van Hassel

*Ex Officio:* Irving J. Naidorf

## 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		Robert A. Uchin	'75

## HONORARY MEMBERS

Mary C. Crowley  
Sir Wilfred E. Fish  
Louis I. Grossman

Harry J. Healey  
Walter Hess  
Maynard K. Hine

Maury Massler  
B. Nygaard Ostby  
Harold Stanley

## CHARTER MEMBERS OF AMERICAN ASSOCIATION OF ENDODONTISTS

- Aguilar, 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  
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.  
Peschelt, 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



## 1977 ANNUAL MEETING COMMITTEES

**PROGRAM** . . . . . Stephen F. Schwartz, *chairman*

- Audio-Visual Clinics . . . . . Richard C. Burns
- Commercial Exhibits . . . . . Jeffrey Foster, *chairman*  
Mrs. D. Broach Thurston, *manager*
- International Section . . . . . David Prensky  
Warren Wakai  
Enrique Basrani
- Luncheon with Learning . . . . . Russell Grandich
- Printed Program . . . . . Elenore L. Baker
- Projected Clinics . . . . . Alan Selbst
- Table Clinics . . . . . Malcolm Bekoff
- Research Seminar . . . . . Melvin Goldman

**GENERAL ARRANGEMENTS** . . Burton Kunik, *chairman*

- Audio-visual equipment . . . . . Frank Kasman
- Golf and Tennis . . . . . W. Kenneth Horwitz
- Banquet . . . . . John Myers
- Hosts . . . . . W. Paul Radman
- Registrations . . . . . Stephen Magers  
Carl Trepagnier
- Signs . . . . . Barden Patterson

### WOMEN'S AUXILIARY

- Program and  
Arrangements . . . . . Mrs. Stephen Schwartz (Sharon), *ch.*  
Mrs. Burton Kunik (Mary), *co-ch.*
- Registrations . . . . . Mrs. Alan Selbst (Jan)
- Hospitality . . . . . Mrs. Carl Trepagnier (Barbara)  
Mrs. Frank Trice (Diane)
- Favors . . . . . Mrs. Richard Madden (Fran)
- Tennis . . . . . Mrs. Joel Small (Brenda)
- Treasurer . . . . . Mrs. Barden Patterson (Carol)

## GENERAL INFORMATION

**AAE Headquarters Office** is in the Magnolia Room adjacent to the East Ballroom on the third floor. Staffed by personnel from the Central Office — Dottie Abbott, Irene Elliott and Carol Lee — the office will be open from 8:30 until 5:00 Wednesday through Saturday, and Sunday from 9:00 until noon.

**Badges** are color coded as follows: new members — blue; students — peach; guests — yellow; and all others — white. *Badges must be worn at all official AAE functions.*

**Banquet.** Please note that a ticket is *not* included in your registration packet. There is, instead, a voucher which will be exchanged for a ticket when you make your table selection. To avoid the confusion, and possible disappointment of last minute seating, we urge you to make your table selection at the registration desk between 8:30 Wednesday and noon on Friday. Please do not wait until you arrive at the banquet. If you wish to make up a party, you must have a voucher for each person in your group in order to reserve the space. We respectfully request that you do not ask the clerk to make exceptions.

**Commercial Exhibits** are located in the Imperial Ballroom West on the third floor. They will be open Wednesday from 2:30 until 6:00; Thursday and Friday from 8:30 until 5:00; and Saturday from 8:30 until noon. We ask that you visit the exhibit hall as often as, and whenever possible.

**Convention Cassettes.** Eastern Audio Associates, AAE's official recording company, will record most of the sessions and major speeches. Cassettes will be available at EA's booth located in the foyer outside the ballroom. You may also use the order form included in your registration packet. Please note the box number (S or D-77- ) shown in this program next to each session being taped. Use this number when ordering cassettes. Cassettes for some sessions will also be available in Spanish and Japanese.

**Non-AAE Functions.** All events sponsored by study clubs, alumni associations, military groups, etc. will be held either Friday evening or Saturday morning. They are listed in the condensed program in the centerfold of this program book.

**Translations.** All sessions marked with an asterisk (\*) are being translated simultaneously into Spanish and Japanese.

**About Smoking.** Arrangements have been made for smoking sections in the rear of the room for all scientific sessions. **Smokers** — please consider your non-smoking colleagues and select seats accordingly. For those who are annoyed by smoke, we suggest you take seats in the front of the room.

## PROGRAM

8:30 to 9:00 — Ballroom Center  
Opening Session — Dr. Frank F. Shuler,  
President, ADA

Thursday  
April 14, 1977

9:00 to Noon — Ballroom East

### SCIENTIFIC SESSION I

**Myofascial Pain: Diagnosis & Management (D77-A1)**

**Moderator, Henry J. Van Hassel**  
**Clinician, Janet Travell, M.D.**

Dr. Travell received her undergraduate degree from Wellesley College where she was Wellesley College Durant Scholar. She was awarded the John Metcalf Polk Memorial Prize for the highest Academic standing for her four years at Cornell University Medical College. Among her other awards are Phi Beta Kappa, Alpha Omega Alpha, Spirit of Achievement Award, Albert Einstein College of Medicine, and the Society of Oral Physiology and Occlusion Steven W. Brown Medal. Dr. Travell's professional appointments are extensive in the fields of pharmacology, cardiology and internal medicine. She has been principal investigator in numerous research projects. She has authored numerous articles and made vast contributions to the scientific community. Dr. Travell had the distinct honor and privilege of serving as the Physician to the President of the United States under John F. Kennedy and Lyndon B. Johnson.

Presently Dr. Travell is Emeritus Clinical Professor of Medicine at George Washington University School of Medicine and University Hospital and on the active staff, Department of Medicine, Division of Rheumatic Diseases, Doctors Hospital, Washington, D.C.

Synopsis: 1) Basic concepts of pain referred from myofascial trigger points, 2) specific patterns of referred pain from skeletal muscles, 3) influence of noxious stimuli from trigger points on structures in reference zones of pain, 4) peripheral nerve entrapment by muscles which harbor trigger points, 5) other structures which refer pain to head and neck, 6) projection of pain to a distance by protective guarding of related skeletal muscle groups; the myotatic unit, 7) the normal range of opening of the mandible, 8) the vapocoolant spray, passive stretch procedure for relief of pain and extinction of myofascial trigger points; skin and muscle temperature measurements.

9:00 to Noon — Ballroom Center

### SCIENTIFIC SESSION II — The Pulp As I See It (D77-A2)\*

**Moderator, Milton Siskin**  
**Clinicians, Kaare Langeland and Harold Stanley**

This session will consist of a one-hour presentation by Dr. Langeland and Dr. Stanley respectively followed by a thirty-minute question

and answer session. The subject matter to be covered will include the therapeutic use of calcium hydroxide, corticosteroids, formocresol, sodium hypochlorite and parachlorophenol in its relation to the pulp and periapical tissues. This is not meant to be a debate, but rather a presentation of findings and conclusions supported by scientific criteria. Areas of differences in the two presentations should serve as a stimulus for questions from the audience and areas of mutual agreement should serve as positive reinforcement.

#### 9:00 to Noon — Arboretum

### ENDODONTIC RESEARCH SEMINAR— NON-GRADUATE STUDENT

Moderator, Richard Moodnik

9:00

**Accelerated wound healing in surgically created bone defects using collagen-calcium phosphate gel. (S77-A3)**

**Alan Nevins\*, Robert Gross, Frances Finklestein — Univ. of Connecticut School of Dental Medicine**

Synopsis: Preliminary studies show that a purified form of collagen-calcium phosphate gel enhances infrabony wound healing by serving as a chemical inducer and resorbable matrix. Radiographs and histologic examination at time intervals ranging from 3 to 7 weeks showed accelerated bone formation in the gel treated defects compared to the control sites. These findings indicate that collagen-calcium phosphate gel may be of value in humans for inducing rapid bone formation and in serving as a resorbable template for maxillofacial reconstruction.

9:25

**S.E.M. study of root canal obturation employing thermo-plasticized gutta-percha. (S77-A3)**

**Mahmoud Torabinejad\*, Alvin Krakow — Harvard/Forsyth, Boston**

Synopsis: Forty teeth with single canals were biomechanically shaped in the usual way for root canal obturation. Ten teeth were obturated by injection of thermoplasticized gutta-percha utilizing a pressure syringe. The remaining thirty teeth were divided into three equal groups and were respectively obturated employing (1) lateral condensation, (2) warm gutta-percha with vertical condensation and (3) chloropercha. The adaptation of the root canal fillings to the surrounding dentinal walls was examined under the scanning electron microscope utilizing freeze fracturing in liquid nitrogen to produce samples showing the gutta-percha dentin interface. The findings for the different groups are compared.

9:50

**Three dimensional root canal obturation utilizing injection molded thermoplasticized dental gutta-percha. (S77-A3).**

**Fulton Yee\*, Jay Marlin, Alvin Krakow, Paul Gron — Harvard/Forsyth, Boston**

Synopsis: The technique of injection-molding was applied to thermoplasticized dental gutta-percha *in vitro*. Teeth were biomechanically instrumented prior to obturation of the root canal space. Thermoplasticized gutta-percha was injected, with and without the use of a sealer, utilizing the pressure syringe. The quality of the seal was assessed in dye penetration studies. The findings showed that the injection-molding technique leads to a seal comparable to that of conventional approaches. It is concluded that the technique holds promise for *in vivo* use.

10:15

**Scanning electron and light microscopic evaluation of the perforated needle irrigation system. (S77-A4)**

**Lawrence Goldman\*, Melvin Goldman, Joseph Kronman, Peck Sun Lin — Tufts University School of Dental Medicine.**

Synopsis: Preliminary *in vitro* studies have shown that the perforated needle irrigation system distributes an irrigant more widely in the root canal system than the conventional system. The present study will examine via S E M and light microscopy the efficacy of this system, with 2.5% NaOCl and 9% Tublicide as the irrigants.

10:40

**The response of the organism to dead and fixed-dead tissue. (S77-A4)**  
**Paul Wesseling — University of Amsterdam**

Synopsis: In this project, we are studying the influence of sterile necrotic tissue on vital connective tissue and the effects of the use of fixatives as endodontic medicaments. In the studies we conclude that sterile necrotic tissue, per se, is, probably, not causing an inflammatory response and that the use of fixatives as endodontic medicaments should be discouraged.

11:05

**A histological and ultrastructural report of iontophoresis with sodium fluoride. (S77-A4)**

**Richard Walton — Medical College of Georgia**

Synopsis: In dogs, root surfaces were surgically exposed and cementum removed. One percent NaF was driven into the exposed dentin with a negative charge. Pulp changes over 7 and 80 days were studied with the light and electron microscope; amounts of dentin formed were determined with hard tissue markers. Results differed significantly from earlier published studies.

11:30

**A comparative study of the one-visit and the multiple visit endodontic procedure. (S77-A5)**

**Walter Soltanoff—Montclair, NJ**

Synopsis: A random selection of over 300 cases with variables relating to diagnosis, radiographic examination, the filling procedure, the incidence of pain and medication were subject to computer analysis. Results indicate in all the categories examined that there is no statistical significance in the results obtained from the one-visit or the multiple visit endodontic procedure.

**Noon to 2:00 — Lunch on your own.**

**2:00 to 5:00 — Arboretum**

**ENDODONTIC RESEARCH SEMINAR—  
NON-GRADUATE STUDENT (continued)**

**Moderator, Samuel Seltzer**

2:00

**The local pulpal effects of systemically administered methotrexate. (S77-A5)**

**Daniel Kolzet\*, Gerald Shklar, Alvin Krakow — Harvard/Forsyth, Boston**

Synopsis: Methotrexate (amethopterin) is an antimetabolite widely used in the management of neoplastic disease. The present study is concerned with the local pulpal reactions in Sprague Dawley rats receiving systemic administration of the drug. A Class 1 cavity was prepared in the maxillary right first molar and restored with amalgam in 36 rats. The animals were divided into three groups. Group 1 received 0.25 mg methotrexate i.p. per 100 g body weight three times per week. Group 2 received saline i.p. and Group 3 no injection. All animals were caged separately. Animals were sacrificed after 7, 14, 21 and 28 days, respectively. Histologic preparations were made of the treated teeth. Pulp tissues of Group 1 animals displayed a severe and extensive inflammatory response while pulp tissues from Group 2 and 3 animals showed a well localized inflammatory response. The findings suggest that systemically administered methotrexate imparts an impaired pulpal healing response to operative dental procedures in the laboratory rat.

2:30

**An analysis of the results of root canal cultures taken at various stages of endodontic therapy. (S77-A6)**

**Chester Kowalski — University of Connecticut School of Dental Medicine.**

**Synopsis:** The results from approximately 3000 cultures taken at various stages of endodontic therapy by students, residents, and faculty will be analyzed and presented. The analysis will include the following variables: clinical diagnosis before therapy, radiographic evaluation of the apical tissues, tooth location, and medicaments used. Culture reversals (that is negative to positive) based on the previously stated variables and why they occur will also be presented.

**3:00**

**An analysis of the results from subcultures of selected positive root canal cultures. (S77-A6)**

**William Dowden — University of Connecticut School of Dental Medicine**

**Synopsis:** Selected root canal cultures which had evidence of bacterial growth were subcultured to identify the organism or organisms. The decision to subculture, in most cases, was made when the culture taken just before obturation produced growth when one or more previous cultures had not produced growth. An analysis of the subculture results will be presented.

**3:30**

**The effects of acid etch-resin restorations of cervical erosions on the pulp-dentin system. (S77-A7)**

**Herbert Schilder, Gary Cogar\* — Boston University School of Dental Medicine**

**Synopsis:** Seeking to avoid the removal of sound tooth structure normally sacrificed for retention, several dental materials manufacturers are marketing restorative materials designed to adhere to acid-etched cervical erosions and abrasions. This study investigates the altered enamel and dentin surface produced by the etching procedure, the nature of the dentin-resin interface, and the combined pulpal effects as the material is used clinically. Supportive data include scanning electron micrographs of etched erosions and an H & E light microscopic study of the pulpal reaction in human incisors to the restoration of cervical erosions with the acid etch-resin system.

**4:00**

**The effect of cobalt-60 radiation on the pulp and the response of irradiated teeth to endodontic therapy. (S77-A7)**

**Samuel Patterson, Abdel El-Kafrawy — Indiana University School of Dentistry**

**Synopsis:** The effect of cobalt-60 radiation was studied on three groups of teeth. In the first study the effect of irradiation on the pulps of intact mature permanent teeth was investigated. In the second study the effect of cobalt-60 radiation on the pulps of

restored permanent teeth was investigated. In the third study the response of irradiated teeth to endodontic therapy was investigated.

**2:00 to 5:00 – Ballroom Center**

**PROJECTED CLINICS I – Moderator, Alan Selbst\***

- 2:00 – Milton Siskin, Memphis, TN  
**Facts, Fancies and Functions in Endodontics**
- 2:45 – Kaare Langeland, Farmington, CT  
**Periapical Responses in Endodontic Failure**
- 3:30 – Harold Gerstein, Milwaukee, WI  
**Systemic Considerations in Clinical Endodontics**
- 4:15 – Jose Oynick, Mexico, Mexico  
**Clinical and Histological Evaluation of a New  
Retresealing Material**

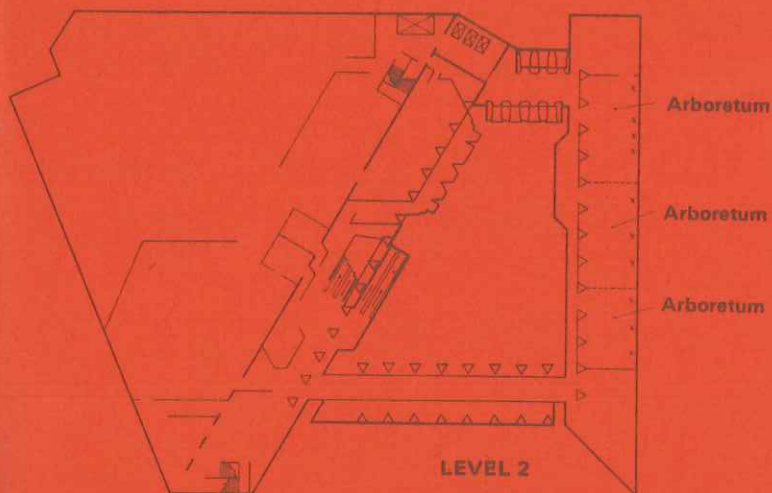
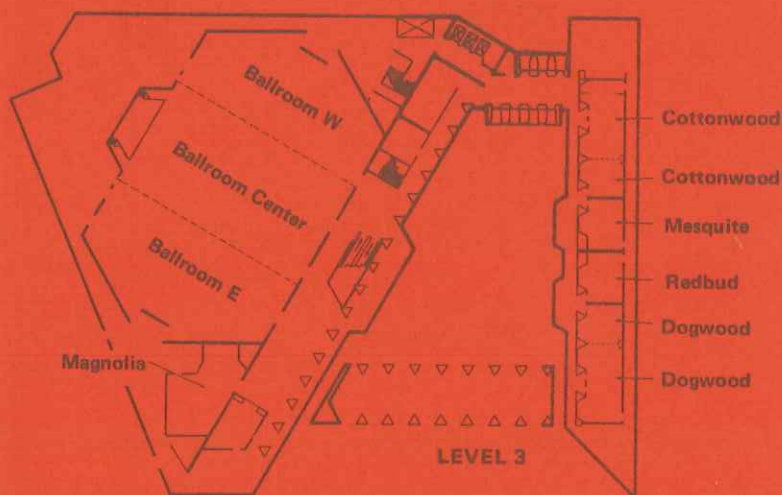
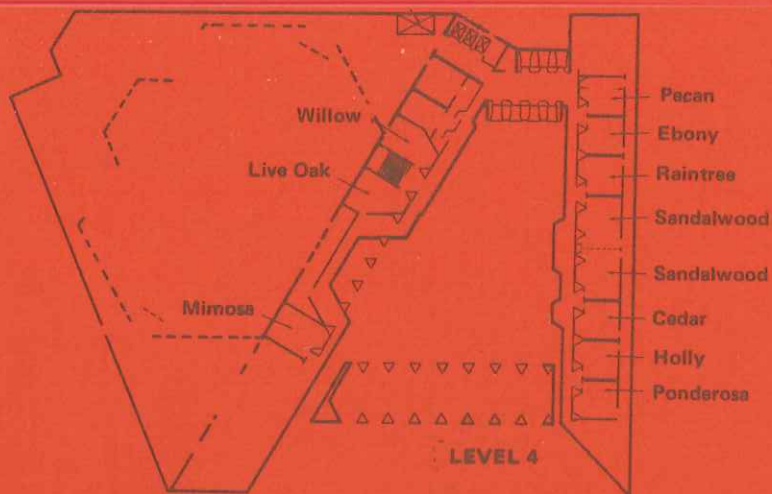
**2:00 to 5:00 – Ballroom East**

**PROJECTED CLINICS II – Moderator, Stephen Cohen**

- 2:00 – George Zurkow, Wilmington, DE  
**Utilization of Auxiliaries**
- 2:45 – Bertram Wolfsohn, San Mateo, CA  
**Clinical Endodontics "On the Loose"**
- 3:30 – Peter Guldener, Bern, Switzerland  
**Rebuilding of Badly Broken Teeth Using Pins  
and Screws**
- 4:15 – Adolph Bushell, Hartford, CT  
**100 Aids in Endodontics**

**HAVE YOU REMEMBERED TO MAKE  
YOUR SEATING RESERVATIONS  
FOR THE  
SATURDAY EVENING DINNER-DANCE?**





## TUESDAY, April 12, 1977

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

ABE Oral Examinations . . . . . Cedar & Holly Rooms  
 E & M Foundation Trustees Meeting . . . . . Raintree Room

## WEDNESDAY, April 13, 1977

8:30 a.m. to 7:00 p.m.

Registration . . . . . Lobby

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

ABE Oral Examinations . . . . . Cedar & Holly Rooms  
 AAE Executive Committee Meeting . . . . . Mimosa Room  
 Stanley Course . . . . . Arboretum 1, 2

10:30 a.m.

Golf Tournament . . . . . Westwood C.C.

11:30 a.m.

Tennis Tournament . . . . . Westwood C.C.

2:30 p.m. to 6:00 p.m.

Opening of Commercial Exhibits . . . . . Ballroom West

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

Tex-Mex Reception . . . . . Ballroom East/Center

## THURSDAY, April 14, 1977

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

Commercial Exhibits . . . . . Ballroom West

Registration . . . . . Lobby

8:30 a.m. to 9:00 a.m.

Opening Session — Dr. Frank Shuler . . . . . Ballroom Center

9:00 a.m. to Noon

Scientific Session I . . . . . Ballroom East

Scientific Session II\* . . . . . Ballroom Center

Research Seminar — Non-Graduate Student . . . . . Arboretum

Noon to 2:00 p.m.

Constitution & Bylaws Comm. Meeting/lunch . . . . . Ebony Room

Dental Care Programs Comm. Meeting/lunch . . . . . Holly Room

Editorial Board & Communications

Comm. Meeting/lunch . . . . . Mesquite Room

Honors & Awards Comm. Meeting/lunch . . . . . Pecan Room

Peer Review Advisory Comm. Meeting/lunch . . . . . Dogwood A

1:00 p.m. to 2:00 p.m.

Membership Committee Meeting . . . . . Raintree Room

Research Committee Meeting . . . . . Cedar Room

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

Research Seminar — Non-Graduate Student . . . . . Arboretum

Projected Clinics I\* . . . . . Ballroom Center

Projected Clinics II . . . . . Ballroom East

6:30 p.m. —

Texas Roundup (Bar BQ — Rodeo)

Buses leave from front of hotel

\*Sessions being translated

## FRIDAY, April 15, 1977

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

New Member/Grad. Student Breakfast . . . . . Crystal Forest

## PROGRAM

8:30 a.m. to 5:00 p.m.	Commercial Exhibits . . . . .	Ballroom West
	Registration . . . . .	Lobby
8:45 a.m. to 10:00 a.m.	Graduate Student Section Meeting . . . . .	Crystal Forest
9:00 a.m. to Noon	Scientific Session* . . . . .	Ballroom Center
	Practice Management Session . . . . .	Ballroom East
	Research Seminar — Graduate Student . . . . .	Arboretum 1-3
Noon to 2:00 p.m.	Luncheon with Learning . . . . .	See ticket for assigned room
2:00 p.m. to 5:00 p.m.	Table Clinics . . . . .	Arboretum 5
	Scientific Session* . . . . .	Ballroom Center
	Projected Clinics . . . . .	Ballroom East
Evening Hours		
	Univ. of PA Alumni Assn. Party (6:00-7:30) . . . . .	Arboretum 1, 2
	Univ. of WA Graduate	
	Alumni Party (6:30-8:00) . . . . .	Arboretum East
	Army Endo Party (6:30 to 9:00) . . . . .	Holiday Inn
	Boston University (7:00 to 9:00) . . . . .	Arboretum 3, 4

## SATURDAY, April 16, 1977

7:00 a.m. to 8:45 a.m.	International Relations Comm. Breakfast . . . . .	Willow Room
	Navy Endo Breakfast . . . . .	Cottonwood Suite
	Harry Healey Study Club Breakfast . . . . .	Sheraton Hotel
	Boston University Breakfast (7:00 to 8:45) . . . . .	Sheraton Hotel
8:30 a.m. to Noon	Commercial Exhibits . . . . .	Ballroom West
8:30 a.m. to 5:00 p.m.	Registration . . . . .	Lobby
9:00 a.m. to Noon	Scientific Session . . . . .	Ballroom East
	International Scientific Session* . . . . .	Ballroom Center
10:00 a.m. to Noon	AADS — Endodontic Section Meeting . . . . .	Dogwood Suite
12:30 p.m. to 1:45 p.m.	Edgar D. Coolidge Memorial Luncheon . . . . .	Ballroom Center
2:00 p.m. to 3:30 p.m.	Scientific Session* . . . . .	Ballroom Center
3:30 p.m. to 5:00 p.m.	Annual General Assembly Meeting . . . . .	Ballroom Center
6:30 p.m. to 7:30 p.m.	Past Presidents' Reception . . . . .	Arboretum
7:30 p.m. to Midnight	Annual Dinner Dance . . . . .	Imperial Ballroom

## SUNDAY, April 17, 1977

8:30 a.m. to 9:00 a.m.	Continental Breakfast . . . . .	Ballroom Center
8:30 a.m. to Noon	AAE Executive Committee Meeting . . . . .	Mimosa Room
9:00 a.m. to 11:00 a.m.	Scientific Session . . . . .	Ballroom Center
	Group Practice Meeting . . . . .	Live Oak Room

WOMEN'S AUXILIARY OF AAE  
CONDENSED PROGRAM

WEDNESDAY, APRIL 13, 1977

- 8:30 a.m. to 5:00 p.m.  
Registration . . . . . Lobby
- 11:00 a.m.  
Tennis Tournament . . . . . Westwood C.C.
- 2:00 p.m. to 4:00 p.m.  
Wine and Welcome. . . . . Arboretum 5
- 4:00 p.m. to 6:00 p.m.  
Auxiliary Board Meeting. . . . . Sandalwood Suite
- 6:00 p.m. to 8:00 p.m.  
Tex-Mex Reception . . . . . Ballroom Center/East

THURSDAY, APRIL 14, 1977

- 8:00 a.m. to 6:00 p.m.  
Hospitality. . . . . Arboretum East
- 8:30 a.m. to 5:00 p.m.  
Registration . . . . . Lobby
- 9:30 a.m.  
Highlights of Houston Tour. . . . . Buses in front of hotel
- 6:30 p.m.  
Texas Roundup (Bar-BQ, Rodeo) . . . . . Buses in front of hotel

FRIDAY, APRIL 15, 1977

- 8:00 a.m. to 9:30 a.m.  
Hospitality. . . . . Arboretum East
- 8:30 a.m. to 5:00 p.m.  
Registration . . . . . Lobby
- 9:30 a.m. to Noon  
Bayou Bend Tour . . . . . Buses in front of hotel
- 1:00 p.m. to 4:30 p.m.  
Lyndon B. Johnson Space Center Tour . . . . . Buses in front of hotel

SATURDAY, APRIL 16, 1977

- 8:30 a.m. to Noon  
Registration . . . . . Lobby
- 9:00 a.m.  
Auxiliary Annual Meeting and  
Breakfast at Brennans with Dr. Janet Travell. . . . . Brennans
- 1:30 p.m. to 4:00 p.m.  
Seminar-"Woman, Wife, Self . . . A Happening" . . . Ebony, Pecan  
and Raintree Rooms
- 4:30 p.m. to 6:00 p.m.  
Auxiliary Board Meeting. . . . . Mimosa Room
- 6:30 p.m. to 7:30 p.m.  
AAE Past President's Reception . . . . . Arboretum
- 7:30 p.m. to Midnight  
Annual Dinner Dance. . . . . Imperial Ballroom

FRIDAY  
April 15, 1977

9:00 to Noon — Ballroom Center

**SCIENTIFIC SESSION — Moderator, Seymour Oliet**

**Pulpal-Periodontal Lesion: Diagnosis and Treatment (S77-A8)\***  
Clinician, William H. Hiatt

Synopsis: Plaque infections on and within the cementum and dentin will be discussed as they involve periodontal and pulpal tissues. Communications which permit pulpal disease to progress into the periodontal tissues, or periodontal to pulpal, will be emphasized. Also, the incomplete tooth fracture in pulpal-periodontal disease will be documented by case histories. The etiology of root hypersensitivity in periodontal therapy will be reviewed.

Management of the root surface will emphasize curettage and root planing along with bacterial plaque control. Mineralization of the dentinal tubules from the periodontal side will be discussed with the potential for developing smooth, hard comfortable roots by various home and office procedures.

Regenerative surgical periodontal treatment will be discussed briefly. This will emphasize utilization of osseous grafting procedures in the management of pockets which fail to close following endodontic treatment and those associated with hemi-section and root amputation.

**Pediatric Endodontics (S77-A9)\***  
Clinician, Alvin A. Krakow

Synopsis: The presentation briefly outlines the salient biomedical and clinical parameters of Pediatric Endodontics. Specific attention is then given to (1) the general problems encountered, (2) diagnosis and treatment planning in the mixed dentition, (3) bio-mechanical instrumentation, and (4) the obturation of the root canal system of primary teeth utilizing the endodontic pressure syringe.

9:00 to Noon — Ballroom East

**PRACTICE MANAGEMENT SESSION**

Moderators, John Dylewski and Gerald Dietz

**Effective Use of the Professional Corporation**  
Clinician, Harvey Sarnar, B.S., LL.B.

Mr. Sarnar received his degrees from the University of Minnesota. He is now an attorney in private practice and President of Sarnar and Associates. He is the editor of Sarnar and Associates Doctors

Newsletter, and is Instructor in Dental Jurisprudence at Indiana University School of Dentistry. Mr. Sarnier has authored five books on varied subjects and various articles in legal and dental journals. He was an attorney on the staff of the American Dental Association from 1961 to 1971, and is presently the legal counsel for the AAE.

**Synopsis:** This session is directed at those interested in or actively participating in a professional corporation. There will be an extensive discussion of the use of funding vehicles for the retirement plans as well as the secondary benefits that can be achieved through the existing corporation. There will also be time devoted to the way the professional corporation might be updated to take advantage of new developments.

**The Role of the Professional Office Manager (S77-A10)  
Clinician, Mr. Richard O'Connor**

Mr. O'Connor has been employed as office manager for Endodontic Associates PC, of Birmingham, Michigan (the offices of Dietz, Eder, Dietz, Dylewski, Botvinick and Somerlott). Prior to that he was a social worker and County Social Services Director for the State of Michigan, and was Assistant County Juvenile Officer from 1973-1975. He is presently serving on the Macomb County Community College Management Advisory and Curriculum Committees and is a member of the American Management Association.

**Synopsis:** Endodontics is a business as well as a profession. If the modern endodontist wishes to be efficient, he must make it his business to tend to his profession and let the professional office manager tend to his business. The office manager can best afford the luxury of the many hours it takes to observe office procedures. The manager can dissect the areas of personnel, productive scheduling, accounts receivable, record management and storage, patient relations, practice promotion, salesmen, supplies and equipment, maintenance and the most critical area of computer efficiency. He can analyze the problems and install the proper system or method for efficiency. The office manager who can wear all these hats is an invaluable asset to every practice.

**9:00 to Noon – Arboretum**

**ENDODONTIC RESEARCH SEMINAR – GRADUATE STUDENT**

**Moderator and chairman, Melvin Goldman**

**9:00**

**Antibody and cell mediated immune response to dog pulp. Tissue altered by N<sub>2</sub> paste. (S77-A11)  
Robert Block – Medical College of Virginia**

**Synopsis:** Dog's pulp tissue incubated with saline (control) and N<sub>2</sub> paste were used as the antigens to immunize dogs. Primary immunization was I.M. and secondary immunization was via the root canal. Bloods were analyzed for antibody titer by the tanned red blood cell Hemagglutination test (Stavisky 1954) and for cell mediated immune response by the mixed lymphocyte reaction (Bach 1970). The results indicated that N<sub>2</sub> paste altered pulp tissue, rendered it antigenically active and a demonstrable antibody titer (1/160 – 1/320, p <.00005) and lymphocyte proliferation (p <.002) specific to this antigen were obtained.

**9:30**

**Clinical research on the anodyne effects of various intracanal medicaments. (S77-A11)**

**David Maddox – Medical College of Georgia School of Dentistry**

**Synopsis:** Few papers have addressed themselves to the incidence of pain related to intracanal medicaments. This double blind study was done on endodontic patients and examined five popular medications versus a dry cotton pellet as a control. A postcard questionnaire was used to collect post-operative information from patients on the incidence and severity of pain following each appointment.

**10:00**

**Comparison of culture techniques. (S77-A11)**

**L. Joe Bradley\*, Andrew Michanowicz – University of Pittsburgh School of Dental Medicine**

**Synopsis:** This *in vivo* study was conducted to compare the incidence of positive cultures by utilizing: (1) an anaerobic collection and culture technique, (2) an anaerobic culture only technique, and (3) an aerobic culture only technique. A total of 180 cultures from 20 intact non-vital teeth were compared and analyzed. The three culture techniques were utilized at pre-instrumentation, post-instrumentation, and recall.

**10:30**

**Measurement of the blood flow in the pulp of the canine of the dog and effects of isoproterenol on the blood flow. (S77-A12)**

**Syngcuk Kim – Columbia University School of Dental and Oral Surgery**

**Synopsis:** The pulpal blood flow of intact teeth was determined by the local indicator washout method using radioisotope Xenon-133. Intraarterial injection of Xenon-133 was monitored with a specially modified scintillation probe placed on the tooth. The activity of Xenon-133 was then analyzed graphically and mathematically. Intraarterial administration of the vasodilator isoproterenol caused a

*reduced* blood flow in the pulp vessels. The possible explanations of this paradox will be presented. The method developed in this investigation can be used for determination of many functional parameters of the pulp such as blood volume, perfusion and capillary permeability of the pulp.

11:00

**The retentive strength of two endodontic post systems. (S77-A12)**  
**J.G. Fraser – University of British Columbia**

Synopsis: The resistance of composite retained metal posts to longitudinally applied force was compared to zinc phosphate cement retained cast gold posts. It was found that the composite retained metal posts placed in canals with added retention were retained as well as or significantly better than the zinc phosphate retained cast gold posts.

11:30

**Scanning electron microscope study of the warm gutta-percha technique (S77-A12)**

**James Lifshitz – Boston University School of Dental Medicine**

Synopsis: The purpose of this study was to determine the importance of cleaning, shaping and filling root canals in three dimensions by using the warm gutta-percha technique with vertical condensation, and this was presented with the help of the scanning electron microscope. SEM photographs were taken to show various situations and these observations tend to confirm the technique which best fulfills the requirements of root canal preparation and obturation, the warm gutta-percha technique with vertical condensation, described by Schilder.

Noon to 2:00 – Assigned Rooms

**LUNCHEON WITH LEARNING**

**Chairman, Russell Grandich**

1. **What to Expect When Bleaching Vital Teeth! –**  
Donald Arens
2. **Aids in Endodontics – Adolph Bushell**
3. **So You Want to Publish – Robert E. Cassidy**
4. **Endodontic Surgery – Carlos del Rio**
- \*5. **Evaluation *in vitro* of Some Techniques of Root Canal Obturations – Juvenal Gonzales Leon dePeralta**
6. **Evaluating Failures – James Guttuso**
7. **The Root Canal as an Entry-way for Toxins, Medicaments and Materials – Kaare Langeland**



8. **The Endo-Perio Lesion (continued)** — Seymour Oliet
9. **Pain Control in Endodontics: Anesthesia and Sedation** —  
W. Paul Radman
10. **Endodontic Emergencies** — Harold Rappaport
11. **Eastern Europe and the Soviet Union "As I Saw It"**—  
John Sapone
12. **Let's Transplant** — Milton Siskin
13. **A Classification and Treatment of Oral Trauma** —  
Paul Vanek
14. **Recent Studies on Canal Preparation** — Franklin Weine
15. **Treatment of Root Fractures** — Paul Zeigler
16. **The Endodontic Auxiliary** — George Zurkow

2:00 to 5:00 — Arboretum 5

#### TABLE CLINICS

Chairman, Malcolm Bekoff

1. **A controlled economical bleaching set-up.**  
Manuel I. Weisman — Augusta, GA
2. **Apical seal utilizing gold foil.**  
Ernest Spergel — New York, NY
3. **Rubber dam glued to the gingival tissue as a solution for isolation problems and its use in periapical surgery.**  
Carlos E. Koloffon and Gabriel Herrerias — Mexico
4. **Role of the endodontic auxiliary.**  
Karen Shelley and Jean Carrico — Wilmington, DE
5. **Endodontic management of tumor patients.** Joel Alexander,  
Jeffrey Hoover and Harry Whitehall — Houston, TX
6. **Endodontic considerations in over dentures.**  
Paul A. Jones — Lincoln, NE
7. **Maxillary and mandibular apices — an unusual view.** Zvi  
Furman, Armando Lara and Thomas Larder — Tufts University
8. **Troubleshooting the inferior alveolar injection.** B. Richard  
Hill, Ana Perez and Jeffrey Rosenberg — Tufts University

9. **Endodontic dry-heat sterilizer.** Harry Blechman and Aida Chohayeb — NYU Dental Center
10. **Gutta percha — Eucapercha: A new look at an old technique.** Donald R. Morse — Temple University
11. **The filling of significant accessory canals with the warm gutta percha technique.** Jeffrey D. Spiegle — Boston University School of Graduate Dentistry.

2:00 to 5:00 — Ballroom Center

**SCIENTIFIC SESSION — Myofascial Pain: Practical Application of Treatment (D77-A13)\***

**Moderator, John Ingle**  
**Clinician, Janet Travell, M.D.**

Synopsis: 1) Scientific film (33 minutes), "Cool-Stretch for Relief of Pain and Muscle Spasm", 2) Local anesthetic injection of myofascial trigger points, for masticatory, neck and shoulder-girdle muscles, 3) Case reports: trismus, facial neuralgia, 4) Correction of basic perpetuating causes of skeletal muscle strain and dysfunction: mechanical, nutritional, metabolic, infectious, and emotional, 5) Clinical demonstrations: how to examine a patient for myofascial trigger points. Technic for the cool-stretch procedure. Exercises.

2:00 to 5:00 — Ballroom East

**PROJECTED CLINICS — Moderator, I. B. Bender**

- 2:00 William Hiatt — Denver, CO  
**The Incomplete Crown — Root Fractures in Pulpal-Periodontal Disease**
- 2:45 Irving Naidorf, New York, NY  
**Immunological Aspects of Periapical Granulomas**
- 3:30 James Simon, Tustin, CA  
**Speculation on the Healing Potential of Endodontic Periodontic Lesion**
- 4:15 Manuel Weisman, Augusta, GA  
**Pediatric Endodontics — Root Canal Therapy for Little People**

**SATURDAY**  
**April 16, 1977**

**9:00 to Noon — Ballroom East**

**SCIENTIFIC SESSION — Philosophy of the Practice of Dentistry**

**Moderator, Edward Green**  
**Clinician, L. D. Pankey**

Dr. Pankey received his dental degree from the University of Louisville and holds an honorary degree from Northwestern University. He is a Fellow of the American and International Colleges of Dentists, and a past president of the American Association of Dental Examiners, the American Prosthodontic Society, the Florida East Coast District and the Miami Dental Society. Dr. Pankey is also a member of the Southeastern Academy of Prosthodontics, the Florida Academy of Dental Practice Administration, the Southern Academy of Clinical Nutrition and The American Academy of Periodontology. He has received the Award of Merit from the University of Louisville, the Steven W. Brown Medal from the Society of Oral Physiology and Occlusion and the Thomas P. Hinman Medallion and Certificate.

Synopsis: The Philosophy of Life as taught to the dentist is the same that can be used in any profession or business. It has been tried, practiced and proven by many. There is a formula, which will be given, but it is not magic. It is a mode or method of utter simplicity with tremendous strength that will work for those who are willing to listen, to learn and to work toward achieving success and happiness. One must set goals. In this three hour discussion four major goals that you should have will be discussed along with principles of how to attain them.

**9:00 to Noon — Ballroom Center**

**INTERNATIONAL SCIENTIFIC SESSION (D77-A14)\***

**Moderator, H. David Prensky**

**Response of the Rat Molar Pulp to Injury**  
**Clinician, Michael Tagger, Israel**

Synopsis: An update report on the histologic observation of the response of the rat molar pulp to injury. These conclusions have been reached after the study of several hundreds of rat molars, in a number of separate but converging projects relative to the effect on the healing process of amalgam, ZOE and calcium hydroxide, as well as the topical application and implantation in the pulp of various hormones and hormone-like substances.

**The Use of Amalgum in Conventional Root Therapy**  
**Clinician, F. J. Harty, England**

**Synopsis:** The primary object of any root filling technique is to seal the contents of the root canal from the periapical tissues. The commonly employed techniques utilize silver or gutta-percha points in combination with various sealers. These techniques give good results but it is generally accepted that failures occur because the seal is inadequate in canals of irregular cross-section or because (in the case of long term failures) the sealer itself is tissue resorbable. For some years now alternative materials have been investigated by the Conversation Department of the Institute of Dental Surgery and one of these materials has been amalgum. This presentation will include 1) A report on the investigations carried out to date, 2) A description of the instrumentation developed to place and condense laterally amalgum within root canals of a relatively fine diameter, and 3) A description of a modified technique for the use of amalgum in teeth with open apices where apexification has failed or where surgery is contraindicated.

**Clinical & Histological Observations of the Use of Calcium Hydroxide in Endodontic Therapy.**

**Clinician, Geoffrey S. Heithersay, South Australia**

**Synopsis:** The clinical situations, other than vital pulp therapy, in which a calcium hydroxide/methyl cellulose paste can be used to advantage in endodontic therapy will be outlined along with supporting clinical evidence. This will include an analysis of "apexification" cases treated over the past 14 years with related human histological material. In addition the results of a histological study in which calcium hydroxide was used as a dressing material following partial pulpectomy will be presented.

**Diagnostic Problems and Choice of Treatment**

**Clinician, Gilbert Crussol, France**

**Synopsis:** Most of the endodontic cases referred to the specialist are difficult to diagnose and to treat for the general practitioners. In many instances the possibility exists to be misled by the symptoms. Some of these cases will be shown and discussed.

**10:00 to Noon – Dogwood Suite**

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

**Survey of AAE Members Concerning Endodontic Terminology**  
**Edward White, University of South Carolina**

**Undergraduate Endodontic Workshop**  
**Marwan Abou-Rass, University of Southern California**

12:30 to 1:45 — Ballroom Center

**EDGAR D. COOLIDGE MEMORIAL LUNCHEON**

Speaker, Mr. Bob Murphey, East Texas lawyer.

2:00 to 3:30 — Ballroom Center

**SCIENTIFIC SESSION — Forensic Dentistry (S77-A15)\***

**Clinician, Paul Stimson**

Dr. Stimson received his dental degree from Loyola University Chicago College of Dental Surgery, and a Master of Science Degree in General Pathology from the University of Chicago. He is presently Consultant in Oral Pathology, M.D. Anderson Hospital and Tumor Institute and a consultant in Forensic Odontology, Harris County Medical Examiner. Dr. Stimson is a diplomate of the American Board of Oral Pathology, and a member of the American Academy of Oral Pathology, the American Society of Forensic Odontology and the American Society of Forensic Sciences. He lectures in oral and general pathology at the University of Texas Dental Branch, Houston, and the Texas Woman's University, Houston.

Synopsis: According to Pederson, "... forensic odontology is the branch of odontology which deals with the proper handling and examination of dental evidence and with the proper evaluation and presentation of dental findings in the interest of justice." Dr. Stimson will illustrate these points with actual case material covering battered children, bite marks, identification, and other aspects of forensic odontology.

3:30 to 5:00 — Ballroom Center

**ANNUAL GENERAL ASSEMBLY MEETING**

6:30 to 7:30 — Arboretum

**PAST PRESIDENTS' RECEPTION**

7:30 to 12:00 — Imperial Ballroom

**ANNUAL PRESIDENT'S BANQUET**

Entertainment by *The Tahitians*

Dancing to the music of *The Buddy Brock Orchestra*

SUNDAY  
APRIL 17, 1977

8:30 to 9:00 — Ballroom Center

**CONTINENTAL BREAKFAST**

9:00 to 11:00 — Ballroom Center

**SCIENTIFIC SESSION — Moderator, J. B. Freedland**

**Dentistry Today and Tomorrow  
Clinician, General Robert Shira**

Dr. Shira is the past president of the American Dental Association, and was formerly Major General, Dental Corps, U.S. Army, Assistant Surgeon General and Chief of the Dental Corps., and Director of Dental Activities, Walter Reed Army Medical Center. He is a Diplomate of the American Board of Oral Surgery, and Editor of *Oral Surgery, Oral Medicine and Oral Pathology*. His many awards include the "Man of the Year Award" from UMKC, Alpha Omega Fraternity Achievement Medal, Gies Award in Oral Surgery from the Gies Foundation, the Simon P. Hullahen Memorial Award from the West Virginia Society of Oral Surgeons and the University of West Virginia, and the Hinman Achievement Award.

Synopsis: Dentistry is being challenged in a new and meaningful way by many segments of our Society - government, labor unions, consumer groups, the public, health planners and by a group who would remove our classification as professionals and reduce us to the category of a trade. We must resist these challenges if we wish to maintain the delivery system that has served the public and profession so well for such a long period of time. Changes are going to be made and it is important that we have input into what these changes will be.

**Endodontics Today and Tomorrow  
Clinician, Herbert Schilder**

Synopsis: Endodontics has experienced greater advances in the last few decades than almost any other area of dental practice. In spite of these advances, serious problems exist regarding the unevenness with which basic endodontic concepts are perceived by the profession at large — in anti-specialist attitudes, potential over-production of endodontic specialists, shortage of qualified endodontic teachers, maldistribution of endodontists, and attacks on conventional endodontics. Only by facing these issues realistically and honestly will we be able to preserve our options for continued progress in the years immediately ahead.



## 1977 AAE EXHIBITORS

	<i>Booth No.</i>		<i>Booth No.</i>
Ada Products, Inc. P.O. Box 17509 Milwaukee, Wis. 53217	26	Ivory Company 308 No. 16th St. Philadelphia, Pa. 19102	8
AMADENT American Medical & Dental Corp. P.O. Box 3422 Cherry Hill, N.J. 08034	6	Kerr Manufacturing Co. 28200 Wick Romulus, Mich. 48174	1
Aus-Tex Dental Mfg. Republic Nat'l Bank Suite 213 C Austin, Tex. 78731	12	Kilgore International 36 Pearl St. Coldwater, Mich. 49036	19
Columbus Dental Companies 634 Wager St. Columbus, Ohio 43206	8	Libin & Associates 3107 Wilshire Blvd. Los Angeles, Ca. 90010	21
Dri-Clave Corp. 634 Wager St. Columbus Ohio 43206	8	Microcopy 11912 W. Jefferson Blvd. Culver City, Ca. 90230	3
Electropedic Products 3107 Wilshire Blvd. Los Angeles, Ca. 90010	21	Modern Materials, Inc. 1021 S. 10th St. St. Louis, Mo. 63104	8
Encyclopaedia Britannica 425 No. Michigan Ave. Chicago, Ill. 60611	4	Mosby Company, The C. V. 11830 Westline Industrial Blvd. St. Louis, Mo. 63141	28
Healthco, Inc. 25 Stuart St. Boston, Mass. 02116	7	Mynol, Inc. 600 Parkway Broomall, Pa. 19008	5
Hygienic Mfg. Co., The 1245 Home Ave. Akron, Ohio 44310	10	Oratec Dental Products 2020 Ridge Avenue Evanston, Ill. 60201	29
Ives Laboratories, Inc. 685 Third Ave. New York, N.Y. 10017	13	Parkell Products, Inc. 155 Schmitt Blvd. Farmingdale, N.Y. 11735	2



*Booth No.*

Premier Dental Products Co. 9  
1710 Romano Dr.  
Norristown, Pa. 19401

Pulpdent Corp. of America 20  
75 Boylston St.  
Brookline, Mass. 02147

Ransom & Randolph Co., 27  
324 Chestnut St.  
Toledo, Ohio 43604

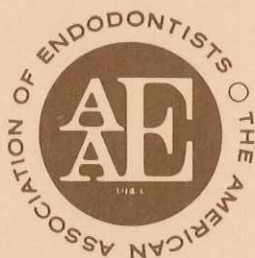
Schwed Co., Inc., Charles B. 25  
505 Fifth Ave.  
New York, N.Y. 10017

Star Dental Mfg. Co., Inc. 23-24  
Ford Bridge Rd.  
Conshohocken, Pa. 19428

Sultan Chemists 22  
7 E. Moonachie Rd.  
Hackensack, N.J. 07601

Union Broach Corp. 31-32  
36-40 40th St.  
Long Island City, N.Y. 11101

Unitek Corp. 33-34-35  
2724 South Peck Rd.  
Monrovia, Ca. 91016



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Mrs. Elenore L. Baker, executive director

**35th Annual Meeting**

April 12-16, 1978  
MGM Grand Hotel  
Las Vegas, Nevada

**36th Annual Meeting**

April 25-29, 1979  
Peachtree Center Plaza Hotel  
Atlanta, Georgia

**37th Annual Meeting**

April 16-20, 1980  
Century Plaza Hotel  
Los Angeles, California

**38th Annual Meeting**

April 29 - May 3, 1981  
Sheraton Hotel  
Philadelphia, Pennsylvania