

**30TH ANNUAL MEETING
FAIRMONT HOTEL
DALLAS, TEXAS APRIL 26 - 29, 1973**

The following is the program for the 1973 meeting of the American Association of Endodontists. The subtle and not so subtle changes that have taken place over the past few years are clearly evident. The program is far more complex and is multi-faceted, so that all our members, whatever their interests may be, can benefit. To accomplish this and to comfortably accomodate the ever increasing numbers of our members, we have scheduled at least four simultaneous presentations in each half-day. To overcome scheduling difficulties we have two solutions. First, Projected Clinics I and II, and the Table Clinics will each be repeated at another time during the meeting. Second, the four main seminars will be TV taped in color and shown at other times. Therefore, more of the program will be available for more members.

The responsibilities with which the Program Chairman is charged are awesome. Without the dedication and selfless aid that the Local Arrangements Chairman, Dr. Paul Radman and all his marvelous committees have provided, none of this would be possible. This also applies to all the other committees involved in the program. To all these dedicated men and women, my most heartfelt thanks for a job well done. To the A.A.E. members, Enjoy! Enjoy! Learn! Learn!

*Melvin Goldman,
Program Chairman*

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CITY OF DALLAS
TEXAS
CITY COUNCIL

WES WISE
Mayor

WELCOME TO DALLAS

For all her citizens, I tell you Dallas is pleased to host the American Association of Edodontists.

As Mayor of what I believe to be the greatest city, in the greatest state, in the greatest country in the world, greetings! You will immediately recognize a certain "Dallas Spirit" as you walk on our thriving downtown streets and drive through our beautiful neighborhoods -- and we want you to quickly and easily become a part of that "Spirit".

Of all the qualities of Dallas, now the eighth largest city in the United States, the greatest by far is our people. You will find here a unique combination of friendliness and awareness, that will enable you to make easy and lasting friendships. Further, "there's always something going on" to enhance those friendships -- top name entertainment, sports, and music. Dallas is proud of our hundreds of fine churches, leading educational institutions, libraries, and public school system. We have world-famous shopping, superb restaurants, the greatest State Fair in the country, and soon, the largest regional airport!

But above all, Dallas is people ... people of different backgrounds, interests, and aspirations, and we are truly glad to welcome you into our mainstream!

City Hall welcomes you, too; if you have any specific questions just telephone Action Center at 744-2233. And come see us soon at any City Council meeting on Monday afternoons.

Sincerely,



Wes Wise
Mayor

WW:sl

THIRTIETH ANNUAL MEETING
of the
AMERICAN ASSOCIATION OF ENDODONTISTS
APRIL 26-29, 1973
DALLAS, TEXAS

PRESIDENT'S WELCOME

As President of the American Association of Endodontists, I bid you a cordial welcome to our 30th annual meeting. This year it is fitting that we hold our annual sessions in Dallas, one of the fastest growing cities in the United States. This rapid growth is comparable to endodontics which at the present time is one of the fastest growing specialties. Moreover, attendance at our meetings by both members and wives has been steadily increasing. Big D, acclaimed as the "Time of Your Life City", awaits your arrival.

As you have been made aware, over the years, everything is bigger and better in Texas; so is our program. Dr. Melvin Goldman, General Chairman and Dr. Paul Radman, Local Arrangements Chairman, have arranged a most unusual and sophisticated program that will be worth the trip for both you and your wives. For the first time at our meetings, video tapes will be introduced to give our members an opportunity to avail themselves of lectures and sessions that they may miss due to conflicts in schedules. For the women there will be many surprises.

The image of our programs has changed decidedly over the years, from case presentations of x-rays before and after treatment, to scholarly papers of merit based on basic sciences. The profile of endodontics today can be characterized by the changes in the philosophic approach based on scientific data. Moreover, our young members are exhibiting an interest in participation of our scientific and administrative programs.

This action bodes well for the future of our organization. Today, we seek in the technics of our treatment a depth of understanding of the materials that are used with a greater appreciation for the biologic environments into which these materials are placed.

To formulate such a program, that challenges even the less curious, I wish to extend my appreciation and thanks to all who have made it possible. I also want to pay tribute to the various chairmen and committee members who have responded so enthusiastically to their assignments to make this meeting bigger and better.

I. B. Bender
President

OFFICERS
AMERICAN ASSOCIATION OF ENDODONTISTS



I.B. Bender
President



Charles A. Scott, Jr.
President Elect



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Vice President



Julian L. Kelly
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Robert A. Uchin
Treasurer



Worth B. Gregory, Jr.
Scientific Editor

EXECUTIVE COMMITTEE

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Henry J. VanHassel
George A. Zurkow

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Harold Gerstein
Seymour Oliet
Warren T. Wakai

1973
Clifford Ames
Irving J. Naidorf
Frank B. Trice

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Alvin A. Krakow, Vice Chairman	Raymond G. Luebke
Julian L. Kelly, Secretary-Treasurer	Charles G. Maurice
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PAST PRESIDENTS

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

*Deceased

HONORARY MEMBERS

Mary C. Crowley	Walter Hess	B. Nygaard Ostby
Sir E. Wilfred Fish	Maynard K. Hine	Ralph F. Sommer
Harry J. Healey	Maury Massler	Harold Stanley

AAE ANNUAL MEETING COMMITTEES

General Chairman

Melvin Goldman

Program

Melvin Goldman, Chairman

Frank Trice, Co-Chairman

Local Arrangements

Paul Radman, Chairman

Edward Nutting, Co-Chairman

Exhibits

Edward Grimes, Scientific

Burton Kunik, Commercial

Table Clinics

Howard Blum

Audio Visual Clinics

Frank Kasman

Research Seminar

Bernard Zeldow

Projected Clinics

Ray Luebke

Luncheon with Learning

Richard Winer, Chairman

Irving Fried

Philip Molloy

James Simon

Melvyn Taylor

Registration

John Ham, Chairman

Edward White

Samuel Schneider

Physical Arrangements

N. Louis Lane

Welcome Reception

Adrian Sampeck

Ushers

Steven Schwartz, Chairman

Sanford Fox

Harvey Schlesinger

Alan Selbst

Charles Snow

Madison Pace

John White

Carl Trepangier

Jim Sackett

Steve Majors

Clyde Hooper

Douglas Seabury

Stanley Brown

Ben Johnson

Jack Martin

Leroy Freeman

Ollie Wilkinson

Alan Schuster

Audio-Visual and Equipment

Frank Kasman

Host Committee

Patrick Ferillo

Signs

Jeffrey Woodson

La Grand Fiesta (Banquet)

Justin Auerbach

AAE Committees Breakfast

Irving Fried

Women's Auxiliary

Elizabeth Radman

TV Seminar

Stephen Davis, Chairman

Alan Levick

GENERAL INFORMATION

1973 A.A.E. MEETING

All functions will take place at the Fairmont Hotel (on the banquet level unless otherwise noted). There will be a shuttle bus running between the Fairmont Hotel and the Holiday Inn Downtown and the Hyatt House.

A.A.E. Executive convention office will be found in the Crown Room on Monday and Tuesday and the Royal Room on Wednesday, Thursday, Friday, Saturday, and Sunday. (Banquet Level). A press room is nearby in the Board Room.

Exhibits will be open as follows: Thursday 9:30 to 5:30, Friday 8:30 to 5:30, Saturday 8:30 to 5:30, Sunday 8:30 to 12:00 noon. All exhibits (commercial) will be in the corridor on the banquet level. Exhibitors Hospitality Room will be located in the Directors Room.

The Harry Healey Study Club Breakfast will be held Saturday, April 28th from 7:30 a.m. to 8:45 a.m. in the Florentine Room.

The Navy Endodontist Breakfast will be held Saturday, April 28th from 7:30 a.m. to 9:00 a.m. in the Terrace Room (Terrace South).

The ABE Breakfast will be held Sunday, April 29th at 9:00 a.m. in the Directors Room.

Registration in the International Ballroom Lobby will be held on Wednesday, April 25th from 10:00 a.m. to 6:00 p.m., Thursday, April 26th from 8:00 a.m. to 4:00 p.m., and Friday, April 27th from 8:00 a.m. to 12:00 noon.

LA GRAND FIESTA (DINNER DANCE) – In the registration area on the lobby level will be a special booth to make table reservations. You may get up a party of eight people and a table will be assigned to you. Reservations must be made by noon on Saturday. Those persons without a reservation will be seated as space is available at non-host tables.

FIESTA DE BIENVENIDO

Welcome Reception

Wednesday, April 25, 1973

6:30 to 8:30 p.m.

REGENCY BALLROOM

Host: Southwest Society of Endodontists

President - Steven Schwartz

Vice-President - Barden Patterson

Secretary-Treasurer - Tex Carlton

CONDENSED PROGRAM

8:45 a.m.

GREETINGS OF PRESIDENT Gold Room

9:00 a.m. to 12:00 noon

PLENARY SESSION Gold Room
(taping)

9:30 a.m. to 5:30 p.m.

COMMERCIAL EXHIBITS Corridor Banquet Level

12:00 noon to 2:00 p.m.

RESEARCH SEMINAR

LUNCHEON - Dr. Kenneth Cooper . . Regency Ballroom

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

ENDO RESEARCH SEMINAR Gold Room

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

PROJECTED CLINICS I Parisian Room

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

PROJECTED CLINICS II Oak Room

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

AUDIO VISUAL Far East Room

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

THL

GREETINGS AND OFFICIAL OPENING

PLENARY SESSION

Local Anesthesia and Pain

9:00 a.m. to 12:00 noon (to be taped - repeat showing Friday, April 27th, 9:00 a.m. to 12:00 noon)

Gold Room

Moderator – Richard Moodnik, A.B., D.D.S., Associate Clinical Professor, Temple University College of Dentistry, Director of Endodontics - Nassau County Medical Center

✓ 9:00 a.m. to 9:45 a.m.

Pharmacological Basis for the Use of Local Anesthetics

Tommy W. Gage, D.D.S., Ph.D., Professor and Chairman, Department of Pharmacology of Baylor University College of Dentistry.

Local anesthetics and drugs used to control apprehension are of primary concern in endodontic practice. Understanding the pharmacological action of these drugs on various body systems should provide a mechanism that will improve their accuracy and add dimension to their application.

✓ 9:45 a.m. to 10:00 a.m.

Anatomical Principles in the Successful Application of Local Anesthetics

Joseph H. Kronman, D.D.S., Ph.D., Professor of Orthodontics, Tufts University School of Dental Medicine

Applications of anatomical knowledge concerning this topic as well as usual and ectopic distribution of nerves to the dentition will be discussed in detail. Mechanisms of referred pain and problem solving in local anesthesia will be presented in a systematic manner.

✓ 10:30 a.m. to 11:15 a.m.

Acupuncture Analgesia in Dentistry

John W. C. Fox, M.D., Assistant Professor of Anesthesiology, State University of New York, Downstate Medical Center, Diplomate of the American Board of Anesthesiology, Member of the International Society of Acupuncture, and the American Society of Chinese Medicine

A brief history of the ancient Chinese healing art is given. Current Western neurophysiological explanations are discussed, limited clinical trials are presented and a conclusion drawn as to the technique's future usefulness.

11:15 a.m. to 11:30 a.m.

Some Personal Experiences with Acupuncture

Dr. I. B. Bender, President A.A.E.

11:30 a.m. to 12:00 noon

Panel Discussion & Questions

LUNCHEON

12:00 noon to 2:00 p.m.

Speaker: Kenneth Cooper, M.D., M.P.H., Dallas, Texas
Regency Ballroom

ENDO RESEARCH SEMINAR

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

Moderator — BERNARD ZELDOW, D.D.S., M.S., Seattle, Wash.
Gold Room

2:00 p.m.

The Effect of Systemic Disorders on the Dental Pulp in Experimental Animals

M. MICHAEL COHEN, D.M.D., and GERALD SHKLAR, D.M.D., M.S. — Harvard School of Dental Medicine

Pulpal conditions were investigated in the following experimental animals: Chinese hamsters with hereditary Diabetes Mellitus, H-1 Virus modified hamster, Grey lethal mouse strain, Polyoma infected Swiss mice, Mutation diabetes (db) (an inbred mouse strain) (C57BL/Ks) characterized by a metabolic disturbance resembling diabetes), and Streptozotocin produced diabetes in rats.

Pulpal changes were noted in the Chinese hamster, the H-1 Polyoma infected Swiss mouse. It appears that the periodontal structures are much more susceptible to infection and genetic influences than the dental pulp. The pulpal changes in these animals were secondary and found in association with severe periodontal disease.

2:30 p.m.

The Proteolytic Phase of Dentinal Caries

MAURY MASSLER, D.D.S., M.S. — University of Illinois College of Dentistry

The carious process in dentine differs from that in enamel in that destruction of the organic matrix must follow the demineralization of the dentine. This study showed (1) that the breakdown of the demineralised dentine matrix occurs as a result of bacterial action; (2) that the responsible organism is an intra-tubular gram negative streptococcus and (3) that this organism is derived from the gram positive cariogenic streptococci on the surface of the carious dentine.

3:00 p.m.

Endodontic Overinstrumentation in Conventional and Mono-infected Rats

BARRY H. KORZEN, D.D.S. and ALVIN ARLEN KRAKOW, D.D.S. — Harvard School of Dental Medicine and Forsyth Dental Center

The mesio-palatal roots of the upper first molars of fifteen conventional and seventeen gnotobiotic Sprague-Dawley rats infected with *Streptococcus mutans* were intentionally endodontically overinstrumented. Immediately post-operative, half of the teeth were sealed with amalgam while the others were left exposed to the oral environment for periods up to 30 days. The resolution of periapical inflammation caused by the mechanical irritation and autolytic pulpal products was then histologically studied.

Preliminary examination of the material indicates that healing was enhanced by the use of the amalgam seal.

3:30 p.m.

Endodontic Research with the Scanning Electron Microscope

STEVEN BROUGH, D.D.S. and SAMUEL SELTZER, D.D.S., — Temple University School of Medicine

Research utilizing the scanning electron microscope has been prepared in the following areas: 1. Normal dental structures 2. Corrosion of silver cones 3. Corrosion of endodontic implants 4. Adhesion and adaptation of various root canal filling materials. The presentation will illustrate the results of these various studies, present conclusions and point out the areas where further research is indicated.

4:00 p.m.

Isolation and Classification of Anaerobic Bacteria from Non-Vital Teeth with Intact Pulp Chambers

WILLIAM E. KANTZ, D.D.S., Ph.D. — Baylor College of Dentistry

Twenty four non-vital teeth with intact pulp chambers from humans were sampled by a newly developed method in which the sample was maintained in an anaerobic environment. Total counts and anaerobic viable recovery counts were determined for each sample. Thioglycollate broth cultures of these samples were also performed. In an anaerobic glove box utilizing an atmosphere of 85% N₂, 10% H₂ + 5% CO₂ a membrane filtration system on modified media was utilized for cultivating anaerobic microorganisms. Oxygen tolerances were established for all organisms and species identification was determined for all anaerobic bacteria.

4:30 p.m.

Evaluation of the Efficacy of Various Medicaments in the Emergency Treatment of Vital Cases Requiring Endodontic Therapy

DAVID AUERBACH, D.D.S., and HERBERT SCHILDER, D.D.S. — Boston University School of Graduate Dentistry

The purpose of this study is to evaluate and compare the

What is a Root Canal Therapy?
Resin Cement

THURSDAY

effectiveness of a number of widely used medications in the emergency treatment of vital cases requiring endodontic therapy. The medicaments used are: cresatin, camphorated paramonochlorophenol, formocresol, and eugenol. Physiologic saline is used as a control. In some cases, the patient's saliva is used to determine the response of the pulp to contamination during the operative procedure.

The study is carried out in two parts. The first part is a clinical and radiographic evaluation of the success of the various medicaments being employed. The second part involves the histological evaluation of some of these teeth to determine the pulpal response to the various medications.

The teeth are followed for periods ranging from one week to twelve weeks. These periods are chosen because this is the most likely range of time required between emergency treatment and the start of root canal therapy, even under the most unusual circumstances.

PROJECTED CLINICS I

Parisian Room

Moderator — JAMES STEINER, D.D.S., M.S.D., Louisiana State University Medical Center

2:00 p.m.

Have Our Teeth Changed in Size and Shape During the Last Century?

DR. A. M. BJORN DAL — Iowa City, Iowa

2:20 p.m.

Configurations and Deviations of Root Canals of the Maxillary First Bicuspid

DR. A. E. SKIDMORE — Morgantown, W. Va.

*High 2 Can 2 Jov - Next one may be 2 canals
2040 2 Root 3 Canal LAST 3 ROOTS 3 CAN*

2:40 p.m.

Photomacrography of Tooth Apices

DR. A. C. McFEATERS, JR. — Pittsburgh, Pa.

3:00 p.m.

Histologic and Clinical Correlation of Accessory Canals in Endodontic Practice

DR. HERBERT SCHILDER — Boston, Mass.

3:20 p.m.

Bifid Canals — How to Recognize Them

DR. G. G. GOULD — New York, N. Y.

3:40 p.m.

The Search for Elusive Canals in Mutilated or Heavily Restored Teeth

DR. M. A. NANES — New York, N. Y.

4:00 p.m.

Precise Obturation by an Internal Impression Method

DR. L. L. ZELDOW — Binghamton, N. Y.

Use Jorgensen point after sufficient reaming on heat hard rest.

32M
4:20 p.m.

THURSDAY

Simplified Obturation of Molar Root Canals with Gutta Percha

DR. H. D. FINK — New York, N. Y.

4:40 p.m.

Pulpo-Periapical Disease - A Computerized Clinical Study

DR. H. S. SELDEN — Bethlehem, Pa.

PROJECTED CLINICS II

Oak Room

Moderator — RAYMOND LUEBKE, D.D.S., M.S.D.

2:00 p.m.

Traumatic Bone Cavities of the Jaws

DR. J. SAPONE — San Francisco, Calif.

2:20 p.m.

Apical Fenestration: A Cause for Recalcitrant Endodontic Pain

DR. H. F. SPASSER — New York, N. Y.

2:40 p.m.

The Endodontists Role in Preservation of Alveolar Bone

DR. EDWIN NUTTING — San Diego, Calif.

3:00 p.m.

First Aid for the Avulsed Tooth

DR. NOAH CHIVIAN — West Orange, N. J.

3:20 p.m.

Prophylactic Trephination

DR. ISADORE WOLCH — Winnipeg, Canada

3:40 p.m.

Vertical Split Roots

DR. P. F. SIEGEL — Cincinnati, Ohio

4:00 p.m.

Vertical Fractures in Posterior Teeth

DR. J. A. DEWBERRY, JR. — Dallas, Texas

4:20 p.m.

Surgical Endodontics of Unusual Interest

DR. B. L. WOLFSOHN — San Mateo, Calif.

4:40 p.m.

The "Hopeless" Tooth, Perio-Endo Combined Treatment

DR. P. B. CARRINGTON — Dallas, Texas

place GP point on flat surface
heat with alcohol hold about
2 min. remove and place in seal
and to soften
and place in seal

AUDIO – VISUAL

THURSDAY

Far East Room

Moderator — FRANKLIN KASMAN, D.D.S., Austin, Texas

2:00 to 2:35 p.m.

Vital Pulpotomy Techniques

HAROLD BERK

2:40 to 3:00 p.m.

(No Title Given)

KAARE LANGLAND

3:00 to 3:30 p.m.

Root Canal Therapy in One Hour

J. A. CAMARA

3:30 to 4:00 p.m.

Refrograde Silver Point Filling

SANFORD S. GOLDEN

4:00 to 4:15 p.m.

Bleaching the Discolored Tooth

DUANE E. COMPTON

4:15 to 5:00 p.m.

Procedures in the Endodontic Office

ADOLPH BUSHELL

These clinics repeat at the same time on Friday afternoon, April 27, 1973.

In order to supplement the limited accommodations at the Coffee Shop at the hotel, we have arranged:

1. Continental Breakfast served every morning in Lobby Bar.
2. Buffet Breakfast served every morning in the Venetian Room.

CONDENSED PROGRAM

7:30 a.m. to 9:00 a.m.

NEW MEMBER BREAKFAST Continental Room

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

COMMERCIAL EXHIBITS Corridor Banquet Level

9:00 a.m. to 12:00 noon

DENTAL AUXILIARY UTILIZATION Gold Room
(taping)

9:00 a.m. to 12:00 noon

ENDO RESEARCH SEMINAR Oak Room

9:00 a.m. to 12:00 noon

PROJECTED CLINICS I Parisian Room
(repeat)

9:00 a.m. to 12:00 noon

AUDIO VISUAL Far East Room

9:00 a.m. to 12:00 noon

TV SEMINAR Continental Room

12:00 noon to 2:00 p.m.

LUNCHEON WITH LEARNING. . . . Regency Ballroom

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

GRADUATE STUDENT RESEARCH

SEMINAR Oak Room

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

PULP BIOLOGY SEMINAR Gold Room
(taping)

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

TABLE CLINICS Regency Ballroom

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

AUDIO VISUAL Far East Room

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

TV SEMINAR Continental Room

7:30 a.m. to 9:00 a.m.

Continental Room

DENTAL AUXILIARY UTILIZATION

9:00 a.m. to 12:00 noon - (to be taped, repeat showing Friday, April 27th, 2:00 p.m. to 5:00 p.m.)

Gold Room

Moderator: DR. IRVING FRIED, New York City

Modern Management in Endodontic Practice

GEORGE A. ZURKOW, D.D.S., Assistant Clinical Professor, Division of Endodontics, School of Dentistry, University of Maryland, Director, Continuing Education Courses in Dental Auxiliary Utilization, School of Dentistry, University of Maryland.

FRANCIS A. CASTANO, D.D.S., Assistant Professor and Chairman, Department of Periodontics, Director, Dental Auxiliary Utilization, School of Dental Medicine, University of Pennsylvania.

KAREN SHELLEY, Certified Dental Assistant

Management of the endodontic office can best be approached from a total systems concept, and the principles and application of work simplification will yield increased productivity, with less stress for the endodontist. Furthermore, selection and training of an endodontic auxiliary by modern methods will help maintain an efficient team. Lastly, expanded duties should be considered part of job satisfaction from the point of view of the endodontic auxiliary.

ENDO RESEARCH SEMINAR

9:00 a.m. to 12:00 noon

Moderator — BERNARD ZELDOW, D.D.S., M.S., Seattle, Wash.

Oak Room

9:00 a.m.

An Investigation Into the Reparative Process Following Pulpotomy on Rhesus Monkeys Utilizing Calcium Hydroxide and Cyanoacrylate

MITCHELL LEVINE, D.D.S., ALVIN ARLEN KRAKOW, D.D.S., and ISRAEL LEON DOGON, D.M.D. — Harvard School of Dental Medicine and the Forsyth Dental Center

Healing after pulpotomy with calcium hydroxide/methyl cellulose and fluoro-alkyl cyanoacrylate is being studied radiographically and histologically in two rhesus monkeys for periods of one to one hundred and eighty days with ZOE and stainless steel discs as controls. The mechanism of dentine

bridging is being investigated with sudan black staining for phospholipids.

9:30 a.m.

Biological Aspects of Implants

KAARE LANGELAND, D.D.S., Ph.D., The University of Connecticut, School of Dental Medicine

Insertion of foreign bodies through oral mucosa into bones has the following biological problems:

1. The effect of the drilling of a canal through the bone.
2. The biologic acceptability of the material itself.
3. The effect of the bacterial plaque.

In our short term experiments, we have seen severe inflammation to the drilling per se, and in these experiments, did not observe much difference between metallic and plastic materials. In the longer observation periods the acute inflammation becomes less severe and may become substituted with chronic inflammation. However, where plaque accumulates, bacteria penetrates from the oral mucosa and causes an inflammation to various depths along the pin.

10:00 a.m.

An Improved Design for Endodontic Instruments

SEYMOUR OLIET, D.D.S. and SOLOMON M. SORIN, B.S., M.E., M.B.A. — University of Pennsylvania School of Dental Medicine

This report presents the most recent results of an on-going program to improve endodontic instruments. Information will be presented on the development and evaluation of new and modified instrument designs as well as on the effect of chelating agents on cutting characteristics. Scanning electron microscopy information will also be included.

10:30 a.m.

The Metaendodontium. A Differentiated Biologic Entity

YURY KUTTLER, D.D.S., M.D. — Mexico

A new differentiated biological entity is described to which the name METAENDODONTIUM is applied. It may include 13 components following the terminals of the endodontium. Examples are presented of the chaos existing in endodontic terminology and of the urgent need for a correct name to replace many confused and limited terms, that were applied to the regions beyond the endodontium. Emphasis is placed on the manner in which the METAENDODONTIUM as a biological entity aids in resolving problems encountered in endodontic's terminology, anatomy, roentgenography, pathology, diagnosis, and treatment.

11:00 a.m.

FRIDAY

Electrophoretic Defferentiation of Radicular Cysts and Periapical Granulomas

DONALD R. MORSE, D.D.S. — Temple University School of Dentistry

Polyacrylamide gel electrophoresis was used for differential diagnosis of radicular cysts and granulomas. Root canal fluids were aspirated from 40 anterior teeth with x-ray evidence of periapical pathosis, and from one non-vital anterior tooth with non x-ray evidence of periapical pathosis. Endodontic therapy was performed on all the teeth, and all the periapical lesions were surgically removed. The lesions were sectioned, stained, and examined histologically. The histopathological diagnoses were then compared with the electrophoretic patterns. The study is continuing with certain additional procedures being employed.

11:30 a.m.

The Possible Role of Endotoxins in Pulpal and Periapical Disease

BENJAMIN SCHEIN, D.D.S., HERBERT SCHILDER, D.D.S., Boston University Graduate School of Dentistry.

Endotoxins are lipopolysaccharide-protein complexes in the cell walls of numerous strains of gramnegative oral bacterial which are released upon their destruction.

Endotoxins are capable of producing injury to human tissues, and therefore possibly to pulpal and periapical tissues as well, possibly activating a local immune reaction.

In experimental animals endotoxins cause necrosis of oral mucosa and bone in previously sensitized area, Schwartzman Phenomenon, and they also depress bone growth in tissue cultures. The endotoxin content of the gingival tissues, plaque, and sulcular exudate and saliva has been correlated with gingival inflammation.

This pilot study endeavours to test the hypothesis, that endotoxins might be correlated with clinical symptoms and reentgenograpgic appearance of periapical lesions.

PROJECTED CLINICS I

Parisian Room

Moderator — THOMAS MULLANEY, D.D.S., M.S.D., University of Kentucky Dental School

9:00 a.m.

Have Our Teeth Changed in Shape and Size During the Last Century?

DR. A. M. BJORNDAL — Iowa City, Iowa

9:20 a.m.

Configurations and Deviations of Root Canals of the Maxillary First Bicuspid

DR. A. E. SKIDMORE — Morgantown, W. V.

9:40 a.m.

Photomacrography of Tooth Apices

DR. A. C. McFEATERS, JR. — Pittsburgh, Pa.

10:00 a.m.

Histologic and Clinical Correlation of Accessory Canals in Endodontic Practice

DR. HERBERT SCHILDER — Boston, Mass.

10:20 a.m.

Bifid Canals — How To Recognize Them

DR. G. G. GOULD — New York, N. Y.

10:40 a.m.

The Search for Elusive Canals in Mutilated or Heavily Restored Teeth

DR. M. A. NANES — New York, N.Y.

11:00 a.m.

Precision Obturation by an Internal Impression Method

DR. L. L. ZELDOW — Binghamton, N. Y.

11:20 a.m.

Simplified Obturation of Molar Root Canals with Gutta Percha

DR. H. D. FINK — New York, N. Y.

11:40 a.m.

Pulpo-Periapical Disease - A Computerized Clinical Study

DR. H. S. SELDEN — Bethlehem, Pa.

AUDIO VISUAL

Far East Room

Moderator — FRANKLIN KASMAN, D.D.S., Austin, Texas

9:00 a.m. to 9:15 a.m.

The Use of Rubber Dam in Endodontics

E. H. EHRMANN

9:15 a.m. to 12:00 noon

Diagnosis and Case Selection; Morphology and Access; Canal Preparation; Root Canal Filling

JOSEPH I. TENCA, U. S. Navy

9:00 a.m. to 12:00 noon (taped April 26th)

Local Anesthesia and Pain

Continental Room

LUNCHEON WITH LEARNING

12:00 noon to 1:45 p.m.

Regency Ballroom

1. DR. ARNE M. BJORNDAL — Objectives in Teaching Endodontics
2. DR. HOWARD I. BLUM — Teaching in Endodontics
3. DR. ROBERT E. CASSIDY — The Effectiveness of Computer Assisted Instruction for Diagnostic Problem Solving of Toothache
4. DR. PATRICK J. FERRILLO — Undergraduate Teaching in Endodontics
5. DR. JOSEPH M. LEAVITT — Making Sophomore Endodontics "Relevant"
6. DR. THOMAS P. MULLANEY — How Much Endodontics for the Undergraduate Dental Student
7. DR. BEN SEIDLER — Teaching Endodontic Instrumentation
8. DR. J. C. STEINER — Teaching Endodontics to Undergraduate Dental Students
9. DR. GEORGE STEWART — Teaching in Endodontics
10. DR. RICHARD A. WINER — Clinical Endodontic Experience of Third Year Dental Students
11. DR. ROBERT A. HEYMAN — Teaching Endodontics in Underdeveloped Areas Aboard the S. S. Hope, Natal, Brazil
12. DR. IRVING L. FRIED — Endodontic Residency Training - How does it differ from University training
13. DR. STANLEY B. CHESTNER — How to Start An Approved Endodontic Residency Program Using Your Local Hospital Resources
14. DR. GEORGE COLMER — Pulp Management for Children
15. DR. DUANE E. COMPTON — Trials and Tribulations of a New Office
16. DR. GILBERT H. CRUSSOL — Endodontic Tray
17. DR. ANTHONY E. DIETZ — Everything We Have Always Wanted to Know About the Referring Dentist and his Patient
18. DR. GERALD C. DIETZ — Systems for Efficient Patient Control
19. DR. ROBERT ZANE FOX — Equipment and Supplies

FRIDAY

20. DR. DUANE KALAR — Chairside Semantics for Easier Endodontics
21. DR. THEODORE R. LERNER — Business Endodontics
22. DR. DAVID MOORE — Solving Third Party Problems
23. DR. SEYMOUR OLIET — Practice Management
24. DR. R. S. VESCIO — Patient Flow in Office
25. DR. ADOLPH BUSHELL — Practice Management
26. DR. STANLEY S. ANDREWS — Deciduous Endodontics
27. DR. JUSTIN AUERBACH — Warm Gutta Percha as a Filling Technique
28. DR. LEO BOTWINICK — Salvaging Unsuccessfully Treated Endodontic Teeth
29. DR. JOHN CAULFIELD — Removal of Silver Points and Broken Instruments
30. DR. ARTHUR S. COBIN — Intracanal Use of Vitallium Points
31. DR. CARL L. TINKELMAN — How and Why Retrograde Amalgams
32. DR. ALFRED L. FRANK — Non Surgical Therapy for the Perforative Defect of Internal Resorption
33. DR. LEO GRUDIN — Cleaning and Shaping
34. DR. MELVIN A. KAYE — Endodontics Techniques
35. DR. ROBERT L. KITTREDGE — Locating the Curved Canal
36. DR. ALVIN ARLEN KRAKOW — Pediatric Endodontics
37. DR. PAUL C. LEHMAN — Treatment of Avulsed Teeth
38. DR. ROBERT W. MENDEL — Iatrogenesis in Endodontics
39. DR. DAVID M. NOSONOWITZ — Locating the 2nd Canal in the M.B. Root of Maxillary 1st and 2nd Molars
40. DR. THOMAS H. SIMPSON — Gutta Percha Techniques Following Root Induction
41. DR. LEONARD L. ZELDOW — Three Aids in Faster Posterior Enlargement
42. DR. JAMES H. PEARCE, JR. — Intrososseous Injection for Profound Anesthesia of Lower Molars
43. DR. NOAH CHIVIAN — Face to Face with Root Resorption
44. DR. ROGER T. CZARNECKI — Periradicular Pathology: Endodontic, Periodontal or Both?



TV SEM

The American Association of Endodontists proudly presents a milestone in dental education. Each year at our meeting, we bring together, for our various seminars, a dazzling array of talent. Once the meeting is over, the information and discussions among these scientists are no longer available. We felt this year that this wealth of material should be treasured and stored. With the cooperation of the Audio-Visual Department of Tufts University School of Dental Medicine, we will tape (in living color) 4 of the seminars at our meeting. These will be shown at another time for those who, due to conflicting schedules were unable to see the original presentation. The taping will be done with no interference to the speaker or inconvenience to the audience.

MINARS

The schedule for the repeat performance is as follows:

LOCAL ANESTHESIA AND PAIN

Taped Thursday, 9:00 a.m. to 12:00 noon

- ✦ Repeated Friday, 9:00 a.m. to 12:00 noon

MODERN MANAGEMENT IN ENDODONTIC PRACTICE

Taped Friday, 9:00 a.m. to 12:00 noon

- ✦ Repeated Friday, 2:00 p.m. to 5:00 p.m.

PULP BIOLOGY

Taped Friday, 2:00 p.m. to 5:00 p.m.

- ✦ Repeated Saturday, 9:00 a.m. to 12:00 noon

IMPLANT TOXICOLOGY

Taped Saturday, 9:00 a.m. to 12:00 noon

- ✦ Repeated Sunday, 9:00 a.m. to 12:00 noon

These tapes will be the beginning of a library belonging to the A.A.E. They will be available, in whole or in part, to dental schools, organizations, study clubs, etc. This storehouse of knowledge can then be disseminated widely all over the country at any time.

TV STAFF

Tufts University School of Dental Medicine, Audio-Visual Dept.

Lance Kyed
Charles Bargamian
Jones Gee
Bob Serinsky

45. DR. S. P. KLIMASKO — Pulpal or Periapical Pathology
46. DR. KAARE LANGELAND — Relationship between Pulpal Infection and the Periapical Lesion
47. DR. DONALD R. MORSE — Cysts and Granulomas
48. DR. SAMUEL S. PATTERSON — Pulpal or Periapical Pathology
49. DR. H. D. PRENSKY — New Thinking on Conservative Cyst Elimination
50. DR. HOWARD S. SELDEN — Pulpo-Periapical Disease Clinical Correlation
51. DR. SAMUEL SELTZER — Pulpal and Periapical Pathosis
52. DR. J. FLEDEL BECK — Use of Antibiotic Drugs in Endodontics
53. DR. HARRY BLECHMAN — Use of Drugs
54. DR. P. J. CAVALLO — Antibiotics in Endodontics Therapy
55. DR. ROBERT W. KERN — Drugs are Poisons - Are they Essential in Endodontic Practice
56. DR. SANFORD S. GOLDEN — Use of Drugs in Endodontics.
57. DR. I. J. NAIDORF — Use of Drugs in Endodontics - Systemic and Intracanal
58. DR. B. F. GURNEY — Biologically Acceptable Endodontal Antiseptics
59. DR. FRANK L. GRAZIANO — Nitrous Oxide - Its Use in Endodontic Therapy
60. DR. IRWIN EPSTEIN — Diagnostic Problems in Endodontics
61. DR. HAROLD D. FINK — Filling Molar Canals With Gutta Percha
62. DR. BERNARD E. METRICK — Diagnostic Problems in Endodontics
63. DR. BENJAMIN RUBIN — When to Treat Traumatized Teeth
64. DR. HERBERT F. SPASSER — Perio-Endo Abuse (Too much of a good thing)
65. DR. MARTIN WEISELBERG — Diagnostic Problems in Endodontics
66. DR. MANUEL I. WEISMAN — Diagnosis of Ectopic Fistulas

Each year the **Endodontic Research Seminar** will offer a prize for the best paper presented at the **Graduate Student Research Seminar**. The prize will be known as The Endodontic Research Seminar Prize and will consist of \$100 and a suitably engraved plaque.

It is fitting that this year the Prize is given in memory of:

DR. JULIUS FOX

"Julie" was a charter member of the Endodontic Research Seminar, a true scholar, an indefatigable searcher for truth, a skilled clinician and above all a good friend. He will be sorely missed.

GRADUATE STUDENT RESEARCH SEMINAR

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

Oak Room

Moderator – JERRY SMITH, D.D.S., F.R.C.D. (C)

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

Endodontic Overinstrumentation in Conventional and Germ Free RatsNEIL BALICK, D.D.S. and ALVIN A. KRAKOW, B.A., D.D.S.
Harvard School of Dental Medicine and Forsyth Dental Center.

Endodontic overinstrumentation was performed on the mesio-palatal root canal of the maxillary first molar in 20 germ free and 20 conventional Sprague Dawley rats. The teeth were left open and the animals were sacrificed at varying intervals up to ninety days. The animals were then sacrificed and histological slides were prepared by conventional means and the differences between the germ free and the conventional rats were evaluated.

2:30 p.m. to 3:00 p.m.

Scanning Electron Microscope Observations of Newer Root Canal Filling Materials

RONALD WOLLARD, D.D.S., SAMUEL SELTZER, D.D.S., DANIEL GREEN, D.D.S., and JOSEPH MAGGIO, D.D.S. – Temple University School of Dentistry

A comparative study using the scanning electron microscope of the adaption and adhesion of the following root canal sealers and filling materials will be presented: Poly carboxylate cement, Poly carboxylate with 5% calcium fluoride additive, Poly carboxylate with 5% stannous fluoride additive, Poly carboxylate with 5% calcium hydroxide additive, Poly carboxylate with 10% calcium fluoride additive, Poly carboxylate with 10% stannous fluoride additive, Poly carboxylate with 10% calcium hydroxide additive, silver cones and Grossman's cement, silver cones and Kerr Tubiseal, N₂ permanent, gutta percha and Grossman's cement.

The scanning electron microscope was the modality used to examine these properties of the materials mentioned.

3:00 p.m. to 3:30 p.m.

A Histological Appraisal of Three Experimental Root Canal Filling Materials

DAVID W. RISING, B.S., D.M.D., STEPHAN M. BRAYTON, B.S., D.M.D., and MELVIN GOLDMAN, A.B., D.D.S. – Tufts University School of Dental Medicine

Vital and non-vital incisor teeth of six adult monkeys were

endodontically prepared and filled via intracanal injection with a silicone elastomer¹, a silicone medical adhesive², and a hydrophilic resin³. Other teeth were filled with gutta-percha. The animals were sacrificed after six months, histologic sections of the teeth and periapical areas were prepared and read in a double blind fashion and the results of this study were subjected to statistical analysis. (1.) Silastic 382 Medical Grade Elastomer (Dow-Corning), (2.) Silastic Medical Adhesive Silicone Type A (Dow-Corning), (3.) Hydron Root Canal System (Hydron Laboratories, New Brunswick, New Jersey).

3:30 p.m. to 4:00 p.m.

A Study of the Thermo-Mechanical Behavior of Dental Gutta Percha

ALVIN GOODMAN, D.D.S. and HERBERT SCHILDER, D.D.S. — Boston University, School of Graduate Dentistry

This study involves the thermocouple instrumentation of teeth and the subsequent monitoring of the warm gutta-percha root canal packing technique, in conjunction with a calorimetric analysis of the phase transitions in gutta-percha, as well as dynamic volume-temperature relationships. In addition compressability in unilateral and triaxial states of stress is examined and evaluated.

4:00 p.m. to 4:30 p.m.

A Histologic Study of Endodontic Implants in Monkeys
JEFFREY S. WOODSON, D.D.S., M.S.D. — Indiana University School of Dentistry

This study evaluated the histological and radiographic status of the apical peridental tissues following placement of endodontic implants. Seventeen roots had endodontic implants cemented with AH-26 root canal cement past the apex on two monkeys. Thirty-two apical areas were evaluated after being divided into three groups: (1.) Control group - intraosseous preparation canal filled with implant cemented to or short of the apex (2.) Cement group - intraosseous preparation cement forced into preparation past the apex canal filled with implant cemented to or short of the apex (3.) Implant group - intraosseous preparation implant cemented in place past the apex. Specimens were obtained from a short-term animal, 36-48 days post-op and a long-term animal 123-149 days post-op.

2:00 p.m. to 5:00 p.m. (to be taped - repeat showing Saturday, April 28th 9:00 a.m. to 12:00 noon)

Gold Room

Moderator: CALVIN TORNECK, D.D.S., M.S., F.R.C.D. (C)
2:00 p.m. to 2:45 p.m.

The Biochemical Individuality of the Dental Pulp

ERNEST BEERSTECHEER, JR., Ph.D., Professor and Chairman of The Department of Biochemistry, The University of Texas, Dental Branch in Houston

A brief discussion of the biochemical composition of dental pulp tissue is followed by a summary of the chemical ways in which pulp differs from other connective tissues. These factors are then considered in the light of the several functions that the viable pulp must perform, and the ingenuity of the pulp biochemical system in meeting its needs. Weaknesses are also considered, as well as the possibility of extra dental functions of the pulp tissue.

2:45 p.m. to 3:30 p.m.

Structural Changes in the Dental Pulp in Aging

SOL BERNICK, Ph.D., Professor of Anatomy, University of Southern California, School of Medicine. Adjunct Professor, Biochemistry, University of Southern California School of Dentistry, Professor of Anatomy, University of Southern California School of Pharmacy.

The effect of age upon the various components of the dental pulp in man and non-human primates as demonstrated by various histochemical methods and electron microscopy will be described. Pulpal alterations produced by caries involvement, restorations, and/or drug application will be compared with the aging changes. Specific changes for each of the above factors will be discussed.

3:30 p.m. to 4:15 p.m.

The Biologic Basis of Pain

H. J. VAN HASSEL, D.D.S., M.S.D., Ph.D., Associate Professor of Endodontics, Dental School, University of Washington, Associate Professor of Physiology/Biophysics, Medical School, University of Washington. Director Endodontics Residency Program, United States Public Health Service Hospital, Seattle. Deputy Chief of Dental Service, United States Public Health Service Hospital, Seattle. Research Associate Regional Primate Research Center, University of Washington.

The neural substrate underlying intolerable sensation will be reviewed. Topics will include the calcified tissues of the tooth as

energy transducers in pulpal receptor depolarization, "dental" or pulpal pain, "fast" and "slow" pain, and the current status of the "gate" theory of pain transmission.

4:15 p.m. to 5:00 p.m.

Panel Discussions and Questions

TABLE CLINICS

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

Regency Ballroom

1. **Restoration of Endodontically Treated Teeth with Paraposts**
DR. R. L. HINRICHS – Lincoln, Nebraska
2. **Pulp Therapy in Primary Teeth**
DR. WILLIAM GERVASIO, DR. CLYDE HOOPER,
DR. RICHARD M. MADDEN – University of Texas at
Houston, Dental Branch, Houston, Texas
3. **Visual Aids for Patient Education in Endodontics**
DR. RAMZI G. ANTON – University of Maryland,
School of Dentistry, Baltimore, Maryland
4. **Proper Coronal Contours Following Root Amputation
and Hemi-section**
DR. KEVIN R. JURECKO – VA Hospital, Miami,
Florida
5. **Demonstration of a Sectional Chloropercha Technique**
DR. HERBERT GUTENTAG, DR. PETER VENOKUR –
New York City, N. Y.
6. **Recognition of the "Cracked - Tooth - Syndrome"**
DR. BARRY L. JURIST – University of Maryland,
School of Dentistry, Baltimore, Maryland
7. **Bleaching Vital Teeth Stained with Endemic Dental
Fluoride**
DR. BRYCE W. BONNESS – University of Nebraska,
College of Dentistry
8. **Endodontic Considerations of a Tooth Supported Denture**
DR. WILLIAM R. ADAMS – Indiana University School
of Dentistry

9. **Electronics in Endodontics**
DR. P.W. CASH — San Antonio, Texas
10. **Conservation of Teeth with Endodontic Implants**
DR. GRAYDON L. BALLARD — St. Louis, Missouri
11. **Re-Implantation of Avulsed Teeth**
DR. JOHN M. HUGHES — Ventura, California
12. **The Use of Intravenous Diazepam in Endodontics**
DR. FRANK C. CRAWFORD — San Jose, California
13. **Back-filling, a Simplified Method of Preparing Pulp Canals for Gutta-Percha**
DR. RICHARD WALTON — Medical College of Georgia
14. **Stress Analysis of Endodontic Posts in Function**
DR. MEL H. POLLACK — San Diego, California
15. **Root Resection of Periodontally Involved Teeth**
DR. BERNARD BENKEL, DR. DAVID RISING, Tufts University School of Dentistry
16. **The Use of the Sono-Explorer for Root Canal Length Determination**
DR. PETER LAWRENCE — Burlington, Vermont

AUDIO — VISUAL

Far East Room

Moderator — FRANKLIN KASMAN, D.D.S., Austin, Texas
2:00 - 2:35 p.m.**Vital Pulpotomy Techniques**

HAROLD BERK

2:40 - 3:00 p.m.

(No Title Given)

KAARE LANGELAND

3:00 - 3:30 p.m.

Root Canal Therapy in One Hour

J.A. CAMARA

3:30 - 4:00 p.m.

Refrograde Silver Point Filling

SANFORD S. GOLDEN

4:00 - 4:15 p.m.

Bleaching the Discolored Tooth

DUANE E. COMPTON

4:15 - 5:00 p.m.

Procedures in the Endodontic Office

ADOLPH BUSHELL

TV SEMINAR

2:00 p.m. to 5:00 p.m. (taped April 27th)

Modern Management in Endodontic Practice

Continental Room

AAE PRESIDENT'S BANQUET

*La Grand Fiesta
Dinner Dance*

April 28, 1973, 7:30 P.M.

REGENCY BALLROOM

In the registration area on the lobby level will be a special booth to make table reservations. You may get up a party of eight people and a table will be assigned to you. Reservations must be made by noon on Saturday. Those persons without a reservation will be seated as space is available at non-host tables.

DR. CHARLES JARVIS

"America's Number One Humorous Speaker"

Chuck Arlington's Orchestra

PRE-BANQUET COCKTAIL PARTY

at

6:30 P.M.

SATURDAY

CONDENSED PROGRAM

8:00 a.m.

MEETING OF THE ASSOCIATION OF
GRADUATE ENDODONTISTS Parisian Room

8:30 a.m. - 5:30 p.m.

COMMERCIAL EXHIBITS . . . Corridor Banquet Level

9:00 a.m. - 12:00 noon

IMPLANT TOXICOLOGY Gold Room
(taping)

9:00 a.m. - 12:00 noon

PROJECTED CLINICS II Oak Room

9:00 a.m. - 12:00 noon

CARIOLOGY SEMINAR Far East Room

9:00 a.m. - 12:00 noon

TV SEMINAR Continental Room

12:00 noon - 2:00 p.m.

MEMORIAL LUNCHEON Regency Ballroom
Speaker: Dr. P. Wesley Randall

2:00 p.m. - 5:00 p.m.

ANNUAL BUSINESS MEETING Gold Room

6:30 p.m.

PRE-BANQUET COCKTAIL PARTY-Regency Ballroom

7:30 p.m.

LA GRAND FIESTA (Banquet) Regency Ballroom
Chuck Arlington's Orchestra

*Daylight Savings Time Starts Tonight! Turn Clocks Ahead
One Hour !*

8:00 a.m.

Meeting of the Association of Graduate Endodontists

Parisian Room

IMPLANT TOXICOLOGY

9:00 a.m. to 12:00 noon (to be taped, repeat showing Sunday, April 29th, 9:00 a.m. to 12:00 noon)

Gold Room

Moderator — KAARE LANGELAND, D.D.S., Ph.D., University of Connecticut School of Dentistry

9:00 a.m. - 9:45 a.m.

Scanning Electron Microscope Observations of Endodontic Implants

SAMUEL SELTZER, D.D.S. — Professor of Endodontology and Chairman, Department of Endodontology, School of Dentistry, Temple University, Research Consultant, Albert Einstein Medical Center, Northern Division, Philadelphia. Consultant to Veterans Administration Hospital, Wilmington and Philadelphia Naval Hospital.

Studies using the combined modalities of scanning electron microscopy, microprobe analysis and histology have been made of metals implanted into the jawbones through root canal. The materials studied were silver, Vitallium and Titanium. The results obtained with each of these materials will be evaluated.

9:45 a.m. - 10:30 a.m.

Alloys for Surgical Implantation: History, Failures and New Developments

DR. ROBERT M. ROSE — Professor of Metallurgy and Materials Science at the Massachusetts Institute of Technology, Cambridge, Massachusetts

The history and present state of the art of implantable alloys show that the severest limitations imposed by materials technology are those of corrosion resistance and fatigue failure and that these problems are intertwined in many ways with the degree of biocompatibility. Some new developments will be described.

10:30 a.m. - 11:15 a.m.

Methods of Evaluating the Toxicological Potentials of Implant Materials

JOHN AUTIAN, Ph.D. — Professor, College of Dentistry, University of Tennessee Dental School, Professor, College of Pharmacy, The University of Tennessee, Director of the Materials Science Toxicology Laboratory at the University of Tennessee.

To minimize risks to dental patients will require a pre-clinical biological evaluation of the material. A discussion on present methods of evaluating short term and long term toxicity of implant materials will be discussed.

11:15 a.m. - 12:00 noon

Panel Discussions and Questions

PROJECTED CLINICS II

9:00 a.m. - 12:00 noon

Oak Room

Moderator - RAYMOND LUEBKE, D.D.S., M.S.D.

9:00 a.m.

Traumatic Bone Cavities of the Jaws

DR. J. SAPONE - San Francisco, California

9:20 a. m.

Apical Fenestration: A Cause for Recalcitrant Endodontic Pain

DR. H.F. SPASSER - New York, N.Y.

9:40 a.m.

The Endodontists Role In Preservation of Alveolar Bone

DR. EDWIN NUTTING - San Diego, California

10:00 a.m.

First Aid for the Avulsed Tooth

DR. NOAH CHIVIAN - West Orange, New Jersey

10:20 a.m.

Prophylactic Trephination

DR. ISADORE WOLCH - Winnipeg, Canada

10:40 a.m.

Vertical Split Roots

DR. P.F. SIEGEL - Cincinnati, Ohio

11:00 a.m.

Vertical Fractures in Posterior Teeth

DR. J. A. DEWBERRY, JR. - Dallas, Texas

11:20 a.m.

Surgical Endodontics of Unusual Interest

DR. B. L. WOLFSOHN - San Mateo, California

11:40 a.m.

The "Hopeless" Tooth, Perio-Endo Combined Treatment

DR. P. B. CARRINGTON - Dallas, Texas

bone sore over root follow
upper
Maxillary course and let Maxilla - apex of root is stuck
mes been root
DOVER BAR

CARIOLOGY SEMINAR

9:00 a.m. - 12:00 noon

Far East Room

Moderator — HARRY BLECHMAN, D.D.S., Dean, Brookdale Dental Center, New York University College of Dentistry.

MAURY MASSLER, D.D.S., M.S. — Professor of Pedodontics and Associate Dean for Postgraduate Education, University of Illinois, College of Dentistry

Changing Concepts in Prevention and Treatment of Dental Caries

1. A brief review of modern concepts in dental caries, infectivity, transmissibility and specificity, and its relation to caries treatment.
2. The carious lesion - distinction between the active (infected) lesion and the arrested (re-mineralized) lesion.
3. Chemical treatment of precarious lesions.
4. Chemical treatment of root lesions.
5. Maturation of enamel.
6. The bacterial plaque, its role in caries and gingival disease.
7. A review of dentin as a modified bonelike cellular tissue.
8. Reactions of dentin and pulp to injury.
9. Treatment of the active carious lesion in dentin.
10. Indirect pulp therapy, some recent experimental findings.
11. The role of fluoride therapy in remineralization of enamel and dentinal lesions.
12. A comprehensive treatment plan for the patients with rampant caries.

TV SEMINAR

9:00 a.m. - 12:00 noon

Pulp Biology (taped April 27th)

Continental Room

MEMORIAL LUNCHEON

12:00 noon - 2:00 p.m.

Speaker: DR. P. WESLEY RANDALL

St. Guy's Hospital, London, England

Regency Ballroom

ANNUAL BUSINESS MEETING

2:00 p.m.

Gold Room



Charles W. Jarvis, D.D.S.

Pre-Banquet Cocktail Party — 6:30 p.m.

AAE PRESIDENT'S BANQUET - *LA GRAND FIESTA*

Saturday, April 28th, 1973 — 7:30 p.m.

Regency Ballroom

Dr. Charles Jarvis

of

San Marcos, Texas

"America's Number One Humorous Speaker"

Dr. Jarvis is engaged in the practice of dentistry in San Marcos, Texas, but has had wide experience as a public speaker. He believes in the humorous approach to life and his presentations are loaded with humorous stories, jokes, anecdotes, but at the same time carry a message of human relations, public relations, spiritual reward, and success. Serious points of the message are illustrated with humor. You'll love his use of humor in the dental office — even his patients leave the office laughing (who can beat that?)

CHUCK ARLINGTON'S ORCHESTRA

CONDENSED PROGRAM

8:30 a.m. - 10:00 a.m.

COMMITTEE BREAKFAST Parisian Room

8:30 a.m. - 10:00 a.m.

MEMBERS BREAKFAST International Ballroom

9:00 a.m. - 12:00 noon

TV SEMINAR Continental Room

9:30 a.m. - 12:00 noon

AMERICAN ASSOCIATION OF
DENTAL SCHOOLS Far East Room

9:00 a.m. - 12:00 noon

TABLE CLINICS Oak Room

REMEMBER DAYLIGHT SAVINGS TIME

COMMITTEE BREAKFAST

8:30 a.m. - 10:00 a.m.

Parisian Room

MEMBERS BUFFET BREAKFAST

8:30 a.m. - 10:00 a.m.

International Ballroom

TV SEMINAR

9:00 a.m. - 12:00 noon

Implant Toxicology (taped April 28th)

Continental Room

AMERICAN ASSOCIATION OF DENTAL SCHOOLS

9:30 a.m. - 12:00 noon

Far East Room

A review of the program for the Section on Endodontics for the 1973 annual session.

Endodontic Teaching - Undergraduate and Graduate Evaluation and Correlation

Moderator — DR. THOMAS MULLANEY

DR. MARWIN ABOU-RASS — University of Southern California at Los Angeles

The Role of Evaluation in Undergraduate Endodontic Teaching

DR. HERBERT SCHILDER — Boston University Graduate School of Dentistry

Correlation of Clinical and Behavioral Objectives in Graduate Endodontic Teaching and Specialization

DR. DONALD MORSE — Temple University School of Dentistry

Curriculum For An Advanced Education Program In Endodontics

Panel Discussions and Questions

TABLE CLINICS

9:00 a.m. to 12:00 noon

Oak Room

1. Restoration of Endodontically Treated Teeth with Paraposts

DR. R. L. HINRICHS — Lincoln, Nebraska

2. **Pulp Therapy in Primary Teeth**
DR. WILLIAM GERVASIO, DR. CLYDE HOOPER,
DR. RICHARD M. MADDEN – University of Texas at
Houston, Dental Branch, Houston, Texas
3. **Visual Aids for Patient Education in Endodontics**
DR. RAMZI G. ANTON – University of Maryland,
School of Dentistry, Baltimore, Maryland
4. **Proper Coronal Contours Following Root Amputation
and Hemi-section**
DR. KEVIN R. JURECKO – VA Hospital, Miami,
Florida
5. **Demonstration of a Sectional Chloropercha Technique**
DR. HERBERT GUTENTAG, DR. PETER VENOKUR –
New York City, N.Y.
6. **Recognition of the "Cracked - Tooth - Syndrome"**
DR. BARRY L. JURIST – University of Maryland,
School of Dentistry, Baltimore, Maryland
7. **Bleaching Vital Teeth Stained with Endemic Dental
Fluoride**
DR. BRYCE W. BONNESS – University of Nebraska,
College of Dentistry
8. **Endodontic Considerations of a Tooth Supported Denture**
DR. WILLIAM R. ADAMS – Indiana University School
of Dentistry
9. **Electronics in Endodontics**
DR. P. W. CASH – San Antonio, Texas
10. **Conservation of Teeth with Endodontic Implants**
DR. GRAYDON L. BALLARD – St. Louis, Missouri
11. **Re-implantation of Avulsed Teeth**
DR. JOHN M. HUGHES – Ventura, California
12. **The Use of Intravenous Diazepam in Endodontics**
DR. FRANK C. CRAWFORD – San Jose, California
13. **Back-filling, a Simplified Method of Preparing Pulp
Canals for Gutta-Percha**
DR. RICHARD WALTON – Medical College of Georgia
14. **Stress Analysis of Endodontic Posts in Function**
DR. MEL H. POLLACK – San Diego, California
15. **Root Resection of Periodontally Involved Teeth**
DR. BERNARD BENKEL, DR. DAVID RISING, Tufts
University School of Dentistry
16. **The Use of the Sono-Explorer for Root Canal Length
Determination**
DR. PETER LAWRENCE – Burlington, Vermont

**WOMEN'S AUXILIARY
OF
AMERICAN ASSOCIATION OF ENDODONTISTS**

LADIES SCHEDULE

Wednesday, April 25, 1973

3:00 p.m. - 4:30 p.m.

Ladies Welcome Tea
Pavilion Room

6:30 p.m. - 8:30 p.m.

Fiesta de Bienvenido (Welcome Reception)
Host: Southwest Society of Endodontists
Regency Ballroom

Thursday, April 26, 1973

Thursday, Friday, Saturday Hospitality Room
Panorama Room

9:30 a.m. - 3:30 p.m.

Face of Dallas Tour
Buses at Fairmont Hotel, Ross Street Entrance

Friday, April 27, 1973

10:30 a.m. - 12:00 noon

Marilyn Lee Show
Pavilion Room

1:30 p.m. - 4:00 p.m.

Old Town Shopping Village
Buses at Fairmont Hotel, Ross Street Entrance

Saturday, April 28, 1973

9:30 a.m. - 11:00 a.m.

Brunch and Fashion Show
Zodiac Room at Neiman-Marcus
Buses at Ross Street Entrance

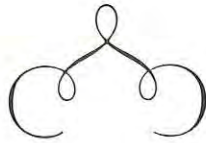
1:00 p.m. - 3:00 p.m.

AAE Auxiliary Board
Vista Room

6:30 p.m.

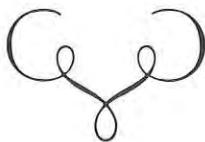
La Grand Fiesta (Banquet)
Regency Ballroom

(Most of these rooms are on the Terrace Level)



EXHIBITORS

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