PHILADELPHIA

INDEPENDENCE HALL

LIBERTY BELL

BETSY ROSS HOUSE

1971

BENJAMIN
FRANKLIN

WILLIAM
PENN
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It is a privilege to welcome you to the twenty-eighth Annual Meeting of the American Association of Endodontists. I hope that you will thoroughly enjoy your visit to the City of Brotherly Love. Philadelphia has not only nurtured the spark of human liberty but has also provided a nourishing environment in which Endodontics has developed and thrived. Philadelphia has long been in the forefront of endodontic education and research.

Since our inception by an inspired group of general practitioners twenty-eight years ago, our membership has become more diversified: we are general practitioners, limited practitioners, teachers and researchers. All of us have different intellectual appetites, but strive toward the same goal — the advancement of Endodontics. It is our hope that the multi-faceted approach of this meeting will serve to satisfy each appetite.

In our program, note the emphasis given to the basic biological principles of endodontics and the strong thrust toward research. These are beacons of maturity. They expose empirical dogma and provide guide-lights that will strongly influence the future direction of endodontic therapy.

I want to express my deep appreciation to all the committee chairmen and members who sacrificed their time and limitless energy to bring this meeting to a state of readiness and excellence. My words, however, are inadequate. If you particularly enjoy certain phases of this meeting, and if you feel that you have gained insight or grasped concepts that will make you a more effective practitioner or teacher, then please don’t hesitate to give a strong pat on the back to those dedicated men who are making this meeting a trail blazer.

John F. Bucher, D.D.S.
President
February 2, 1971

It is a pleasure for me to extend a warm official and personal welcome to the American Association of Endodontists to the City of Philadelphia.

Philadelphia has long played a vital and important role in the development of dental knowledge and practice. Indeed, one of the founders of your field of endodontics, Dr. Louis Grossman, is Professor of Oral Medicine and Director of Endodontics at the University of Pennsylvania School of Dental Medicine.

Hopefully, your schedule will permit you to explore Philadelphia and visit a few of its many historic shrines, museums, and places of entertainment, as this is a city rich in facilities and activities to suit every taste.

With all best wishes that your meeting will be a fruitful and rewarding one, I am

Sincerely yours,

JAMES H. J. TATE
Mayor
Welcome

Philadelphia, the Bicentennial City, prides itself as the cradle of American Liberty. It is equally proud of its reputation as one of the well-springs of Endodontics and creative American Dentistry.

The Program Committee, Local Arrangements Committee, and members of the Louis I. Grossman Endodontic Study Club have planned a program which they hope will bring you the best Philadelphia has to offer, historically and professionally.

Just as Philadelphia once attracted the political leaders of the thirteen colonies, so today we are proud to have attracted the dental leaders of many states and foreign countries. We hope the exchange of ideas will prove so stimulating and profitable that you will return to visit us before and beyond 1976.

[Signature]
Program

[Signature]
Local Arrangements

[Signature]
Program

[Signature]
Local Arrangements
Officers

John F. Bucher
President

Dudley H. Glick
President Elect

I. B. Bender
Vice President

Robert A. Uchin
Secretary

Charles A. Scott, Jr.
Treasurer

Worth B. Gregory, Jr.
Scientific Editor

EXECUTIVE COMMITTEE
1973

CLIFFORD AMES
FRANK B. TRICE
IRVING J. NAIDORF
1972

ORREN A. BOLT
THOMAS P. MULANEY
1971

CALVIN D. TORNECK

MICHAEL A. HEUER
RICHARD M. MOODNIK
Immediate Past President
WARREN J. HEDMAN

JULIAN L. KELLY
Historian

AMERICAN BOARD OF ENDODONTICS

M. B. AUERBACH, Chairman
HERBERT SCHILDER
JOHN DOWSON, Secretary
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HARRY BLECHMAN
ROBERT J. SHANKLE
JAMES W. BYNUM
BERTRAM WOlfSOHN
ALFRED D. FRANK

Executive Secretary: MRS. ELENORE L. MCCLINTOCK
P.O. Box 5520
Lighthouse Point, Florida 33064
Phone: 305/941-6169
PAST PRESIDENTS

*W. CLYDE DAVIS ................................................................. 1943
RALPH F. SOMMER ............................................................. 1944
ROBERT G. KESEL ............................................................... 1945
*E. G. VAN VALEY ............................................................... 1946
MAYNARD K. HINE ............................................................... 1947
LOUIS I. GROSSMAN ............................................................ 1948
*ELMER A. JASPER ............................................................... 1949
*RAYMOND L. GIRARDOT ...................................................... 1950
*GEORGE G. SHARP ............................................................... 1951
F. D. OSTRANDER ............................................................... 1952
L. A. LUCAS ................................................................. 1953
N. WEIR BURKMAN .............................................................. 1954
HARRY J. HEALEY ............................................................... 1955
JOHN R. PEAR ................................................................. 1956
GEORGE C. HARE ............................................................... 1957
GEORGE G. STEWART ........................................................... 1958
J. HENRY KAISER ............................................................... 1959
PAUL P. SHERWOOD ............................................................ 1960
GLENN R. BROOKS .............................................................. 1961
VINCENT B. MILAS ............................................................. 1962
JAMES H. SHERARD, JR. ....................................................... 1963
J. B. FREEDLAND ............................................................... 1964
HENRY S. SCHMIDT ............................................................ 1965
JOHN I. INGLE ................................................................. 1966
EDWIN C. VAN VALEY .......................................................... 1967
SAMUEL S. PATTERSON ....................................................... 1968
WARREN J. HEDMAN ........................................................... 1969
*Deceased

HONORARY MEMBERS

MARY C. CROWLEY ..............................................................
SIR E. WILFRED FISH ...........................................................
WALTER HESS .................................................................
MAYNARD K. HINE ..............................................................
B. NYGAARD OSTBY ............................................................
RALPH F. SOMMER .............................................................
HAROLD STANLEY .............................................................

LIFE MEMBERS

A. FLOYD ANDERSON ..........................................................
JOHN D. BARAB ...............................................................
FRANCIS J. CONLEY ...........................................................
MATHEW EISENMAN ...........................................................
O. C. HIGH .................................................................
ROBERT G. KESEL ............................................................
SAUL LEVY ...............................................................
GEORGE W. LORENZ ...........................................................
BENJAMIN W. MEIMAN .......................................................
Summary of Program — 1971

TWENTY-EIGHTH ANNUAL MEETING
AMERICAN ASSOCIATION OF ENDOodontISTS
Philadelphia, Pennsylvania
April 22-25, 1971

THURSDAY, APRIL 22nd
Registration 1:00 - 5:00 P.M. — Brandywine Ballroom Lobby

RESEARCH SEMINAR — Brandywine Ballroom — Salons D, E.
Moderator — DR. MELVIN GOLDMAN

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<td>CMDR. JOSEPH H. BURKE</td>
<td>SYSTEMIC TETRACYCLINE EFFECT ON ENDOodontIC CULTURES</td>
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<td>9:30-10</td>
<td>DR. THOMAS P. MULLANEY</td>
<td>CLINICAL APPLICATION OF PULP VITALITY TESTING USING CHOLESTERIC LIQUID CRYSTALS</td>
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<td>10:00</td>
<td>DR. ITZHAK SHOHER</td>
<td>DENTAL PULP PHOTOpleTHYSMography IN HUMANS</td>
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<td>10:45</td>
<td>DR. MARVIN A. GROSS</td>
<td>A METHOD OF DIFFERENTIAL DIAGNOSIS OF PERiapICAL LESIONS</td>
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<td>11:30</td>
<td>DR. JULIUS FOX</td>
<td>FILLING ROOT CANALS WITH FILES</td>
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<td>12:00-2</td>
<td>LUNCHeON</td>
<td>Brandywine Ballroom—Salons A, B, C</td>
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Moderator — DR. RICHARD M. MOODNICK

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<td>DR. MARWAN ABOU-RASS</td>
<td>RESEARCH IN ENDOodontICS—METHODOLOGICAL CONSIDERATIONS</td>
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<td>3:00-3</td>
<td>DRS. DANIEL G. GREEN* NEIL WEINER SAMUEL SELTZER</td>
<td>SCANNING ELECTRON MICROSCOPE STUDIES OF ROOT CANAL FILLING MATERIALS</td>
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<td>3:30-4</td>
<td>DRS. NEIL WEINER* DANIEL B. GREEN SAMUEL SELTZER</td>
<td>SCANNING ELECTRON MICROSCOPE STUDIES OF ROOT CANALS FILLED BY VARIOUS TECHNIQUES</td>
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<td>4:00</td>
<td>DR. SEYMOUR OLIET SOLOMON SORIN*</td>
<td>STUDY FOR IMPROVEMENT OF ROOT CANAL INSTRUMENTS</td>
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* Speaker

FELLOwSHIP RECEPTION PARTY — Brandywine Ballroom

6:30-8:00
MEMBERS AND GUESTS
No Host Bar
FRIDAY, APRIL 23rd

7:15—Presiding:
DR. MORRIS B. AUERBACH,
Chairman, American Board of Endodontics

BREAKFAST FOR DIPLOMATES
Brandywine Ballroom—Salons A, B, C

7:15—Presiding:
DR. THOMAS P. MULLANEY,
Chairman, Membership Committee

BREAKFAST FOR NEW MEMBERS
Commonwealth Ballroom—Salons K, L

8:30- 8:50
CAPT. EDWARD PENICK,
U. S. Naval Dental School

FILLING ROOT CANALS (movie)
Commonwealth Ballroom—Salons H, J

8:50- 9:00
DR. JOHN F. BUCHER, President

OPENING CEREMONIES
Commonwealth Ballroom—Salons H, J

Symposium: ENDODONTIC-PERIODONTIC PROBLEMS
Commonwealth Ballroom—Salons H, J
Moderator — DR. JOHN I. INGLE

9:00- 9:45
DR. D. WALTER COHEN

ETIOLOGY

9:45-10:30
DR. RICHARD E. STALLARD

COMBINED THERAPY

10:30-11:30
DR. MORTON AMSTERDAM

RESTORATIVE CONSIDERATIONS
Panel Discussion

AUDIO-VISUAL — Brandywine Ballroom — Salons D, E
Chairman: DR. WESLEY E. BRAMNICK

9:00- 9:10
DR. ARTHUR WEISS,
New Jersey College of Dentistry

PIN POINTERS FOR REBUILDING NON-VITAL TEETH

9:10-9:30
DR. SEYMOUR OLIEF,
University of Pennsylvania

PERFORATIONS

9:30- 9:55
DR. J. A. CAMARA,
New York City

ROOT CANAL THERAPY AND APICAL CURETTAGE

9:55-10:40
DR. GEORGE STEWART,
University of California, Los Angeles

MOLAR ENDODONTICS

10:40-11:00
DR. JOSE OYINICK,
Mexico City

CLINICAL ENDODONTICS
FRIDAY, APRIL 23rd

11:00-11:25  U. S. Naval Dental School  ROOT CANAL PREPARATION
11:25-11:50  U. S. Naval Dental School  FILLING ROOT CANALS

12:00-2:00  Chairman:
            DR. RICHARD WEISS
            DR. HAROLD RAPPAPORT

LUNCHEON WITH LEARNING
Brandywine Ballroom Salons:
    A, B, C Tables #1-10
    F, G Tables #11-30
Commonwealth Ballroom Salons:
    K, L Tables #31-52

ROOT STUDIES — Commonwealth Ballroom — Salons H, J
Moderator — DR. LOUIS I. GROSSMAN

2:00-2:30  DR. ANDREW E. MICHANOWICZ
          ROOT FRACTURES
2:30-3:00  DR. NEAL W. CHILTON
          THE PROBLEM OF ROOT CARIES
3:00-3:30  DR. GEORGE FELDMAN
          PERFORATIONS
3:30-4:00  DR. NOAH CHIVIAN
          ROOT RESORPTION
4:00-4:30  LT. COL. DUANE E. CUTRIGHT
          MICROCIRCULATION
4:30-5:00  DR. HENRY J. VAN HASSEL
          PULPAL PAIN—LOCALIZATION, CONTROL

RESEARCH SEMINAR — Brandywine Ballroom — Salons D, E
Moderator — DR. SAMUEL SELTZER

2:00-2:30  DR. MELVIN GOLDMAN
          MODELS OF PREPARED ROOT CANALS
2:30-3:00  DR. FRANKLIN G. KASMAN
          TISSUE RESPONSE TO RTV-SILASTIC
          WHEN USED AS A ROOT SEALER
3:00-3:30  DR. WILLIAM E. DOWDEN
          A CORRELATION OF CLINICAL SYMPTOMS
          —PULPAL HISTOPATHOLOGY
3:30-4:30  DR. KAARE LANGELAND
          BIOLOGIC EFFECT OF CALCIUM HYDROX-
          IDE AND FORMOCRESOL PULPOTOMY
4:30-5:00  DR. STUART B. FOUNTAIN
          FETAL DEVELOPMENT OF PULPAL
          INNERSATION
SATURDAY, APRIL 24th

8:30-9:00  WORK SIMPLIFICATION IN ENDODONTICS (movie)
           DR. PHILIP LEVIN, Stamford, Conn.
           Commonwealth Ballroom—Salons H, J

PERIAPICAL BIOLOGY — Commonwealth Ballroom — Salons H, J
Moderator — DR. I. B. BENDER

9:00-10:10  IMMUNOLOGICAL FINDINGS IN PERIAPICAL LESIONS
           DR. PAUL A. TOLLER

10:10-11:30 CURRENT ADVANCES IN IMMUNOLOGY AND TRANSPLANTATION BIOLOGY
            DR. HERMAN FRIEDMAN

11:30-12:00 THE ELECTRIC ROOT CANAL METER AND CARIES DETECTION DEVICE
            DR. KATSEUI MORI

ENDODONTIC PRACTICE ADMINISTRATION — Delaware Ballroom, North
Moderator — DR. JULIUS FOX

9:00-9:50  HELP! ENDODONTIC PROBLEM #1
           DR. ADOLPH BUSHELL

9:50-10:40 ENDODONTIC REFERRALS—FROM FIRST CONTACT TO FINAL REPORT
           DR. JAMES H. SHERARD, JR.

10:40-11:30 BUSINESS MACHINES IN AN EFFICIENT ENDODONTIC PRACTICE AND
            FINANCIAL GOAL SETTING IN AN ENDODONTIC PRACTICE
            DR. GERALD C. DIETZ

11:30-12:00 Panel Discussion

TABLE CLINICS — Fairmount-Pennsbury Rooms
Presiding — DR. JOEL L. DUNSKY

9:00-12:00

Table #

1  ANATOMICAL VARIATIONS IN MOLAR ROOT CANALS
   DR. WARREN RUDNER

2  APEXIFICATION
   DR. NEIL BALICK

3  THE ENDO-PERIO LESION
   DR. NORMAN A. DINNERNAM

4  ENDODONTIC IMPLANTS
   DR. EDWARD N. GREEN

5  APEXIFICATION
   DR. JOHN DYLEWSKI

6  PAINLESS PULPITIS
   DRS. ALAN LEVICK, PAUL SCOLA

7  RETROGRADE FILLING TECHNIQUES
   DR. LOUIS E. HIRSCHMAN

8  INVENTORY CONTROL IN ENDODONTICS
   DRS. JACK L. LAURIE, ARNOLD ZUROFF

9  PRESSURE, PAIN AND PULP
   DRS. GERALD HARRINGTON, HENRY VAN HASSEL, STANLEY ANDREWS

10  BACTERICIDAL EFFECTS OF NON-SPECIFIC INTRACANAL MEDICAMENTS
    DR. HUGH F. TREANOR
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<td>MANAGEMENT OF ROOT FRACTURES</td>
<td>DR. JOHN W. HAM</td>
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<td>ENDODONTIC PRE-TREATMENT</td>
<td>DRS. DOUGLAS W. STEWART, ROGER CZARNECKI</td>
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<td>VERTICAL CONDENSATION OF WARM GUTTA PERCHA</td>
<td>DRS. JOHN T. HANCOCK, STEPHEN MORROW</td>
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<td>THE USE OF INSTRUCTIONAL MEDIA IN DENTAL EDUCATION</td>
<td>DRS. JOSEPH MAGGIO, ROGER SPOTT, ABRAM BARNETT, JOSEPH PATNIK</td>
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12:00 - 2:00—Presiding:  
DR. SEYMOUR OLIET  
EDGAR D. COOLIDGE MEMORIAL LUNCHEON—Brandywine Ballroom  
IN MEMORIAM: DR. HENRY A. BARTELS—DR. HARRY BLECHMAN  
EDGAR D. COOLIDGE MEMORIAL LECTURE—DR. LOUIS I. GROSSMAN

PERIAPICAL BIOLOGY (Clinical) — Commonwealth Ballroom — Salons H, J  
Moderator — DR. GEORGE G. STEWART

2:00 - 2:40  
CAPTAIN EDWARD C. PENICK  
THE ROOT APEX IN ENDOdontic DIAGNOSIS

2:40 - 3:20  
DR. FREDERIC M. CHACKER  
THE ROOT IN ENDOdontic—PERIODONTIC INTERRELATIONS

3:20 - 4:00  
DR. MARVIN C. GOLDSTEIN  
WHAT SHOULD THE ENDOdontIST KNOW ABOUT ORTHODONTICS?

NEW CONCEPTS IN DENTAL EDUCATION — Delaware Ballroom, North  
Moderator — DR. HERBERT SCHILDER

2:00 - 3:00  
DR. LEO NEDELSKY  
TEACHING FOR THE FUTURE

3:00 - 4:00  
DR. STANFORD S. KIGHT  
THE STUDENT OF THE '70's

4:00—Presiding:  
DR. JOHN F. BUCHER,  
President A.A.E.

6:30 - 7:30—Hosts:  
LOUIS I. GROSSMAN ENDOdontIC STUDY CLUB

7:30—Presiding:  
DRS. GEORGE A. ZURKOW and DAVID E. SNYDER

ANNUAL BUSINESS MEETING OF THE A.A.E.  
Commonwealth Ballroom—Salons H, J  
PRE-BANQUET RECEPTION  
Commonwealth Ballroom—Salons H, J

DINNER-DANCE  
Commonwealth Ballroom
SUNDAY, APRIL 25th
SUNDAY BREAKFAST
Commonwealth Ballroom
(Reserved Tables for Committee meetings)

AUDIO-VISUAL — With Clinicians — Brandywine Ballroom Salons F, G
Moderator — DR. NOAH CHIVIAN

9:00-9:50
DR. HERBERT SCHILDER
Boston University
NON SURGICAL ENDODONTICS

9:50-10:30
DR. LEONARD PARRIS
Temple University
MANAGEMENT OF ENDODONTIC EMERGENCIES — (A SEGMENT OF A SELF-INSTRUCTIONAL COURSE)

10:30-10:55
DR. RICHARD MADDEN
University of Texas
ENDODONTIC PRESCRIPTIONS

University of Washington
BLOOD FLOW IN THE DENTAL PULP

11:25-12:00
CAPTAIN EDWARD PENICK
U.S. Naval Dental School
ROOT CANAL PREPARATION

RESEARCH SEMINAR — Brandywine Ballroom — Salons D, E
Moderator — DR. KAARE LANGELAND

9:00-10:00
DR. KAARE LANGELAND
NERVES IN PULP AND DENTIN

10:00-10:30
DR. STEPHEN F. SCHWARTZ
ROENTGENOGRAPHIC INTERPRETATION OF BONY LESIONS

10:30-11:00
DR. DAVID W. MILLER, JR.
THE EFFECT OF A PREDNISOLONE CONTAINING ROOT CANAL MEDICAMENT ON PLASMA CORTISOL LEVELS

11:00-11:30
DRS. DAVID BRYAN* HERBERT SCHILDER
AN ULTRASTRUCTURAL COMPARISON BETWEEN THE "MATURE" HUMAN DENTAL PULP AND THAT OF THE CONTINUOUSLY GROWING RAT INCISOR

11:30-12:00
DRS. IRA J. ZOHN* HERBERT SCHILDER
MICROBIAL EVALUATION OF INFLAMMATORY EXUDATE IN ACUTE ENDODONTIC FLARE-UPS

9:00-12:00—Presiding:
DR. F. JAMES MARSHALL
President

* Speaker

AMERICAN ASSOCIATION OF DENTAL SCHOOLS, ENDODONTIC SECTION
Brandywine Ballroom—Salons A, B, C
Officers of A. A. E. Women’s Auxiliary
1970 - 1971

OFFICERS

President ............................................ MRS. GEORGE ISRAEL
Honorary President ................................. MRS. JOHN PEAR
President-Elect .................................... MRS. HERBERT SCHILDER
Vice President and
   Membership .................................... MRS. BERNARD GROTHAUS
Secretary ........................................... MRS. JOSEPH ROCCO
Treasurer .......................................... MRS. RICHARD BURNS

COMMITTEE CHAIRMEN

Parliamentarian ................................. MRS. ANTHONY DIETZ
Editorial ........................................... MRS. DOMINIC PISCARELLI
Program and Arrangements .................. MRS. DAVID L. DYEN
Hospitality ....................................... MRS. ERNEST WEBB
Nominating Committee ......................... MRS. JAMES BYNUM
Auditor ............................................. MRS. FRED WIDEMAN
Gifts ................................................ MRS. F. JAMES MARSHALL

On behalf of the Women’s Committee and myself, welcome to the
City of Brotherly Love. Philadelphia in the Spring can be a very exciting
place. While our men explore the vagaries of the root canal, we hope to
help the ladies explore our city and its environs. We’ve planned a sched-
ule which should include a little something for everyone, and hope it adds
up to excitement, entertainment, and just plain fun. Our only regret is
that there is too much to cover in too short a time. Our greatest delight
would be to have you, and your families, return again to “finish” the
tour in 1976.

Libby Zurkow
Chairman
WOMEN’S AUXILIARY
OF
THE AMERICAN ASSOCIATION OF ENDODONTISTS
PROGRAM DETAILS

Thursday, April 22nd
3:30-5:30 P.M.
Honoring MRS. GEORGE ISRAEL, President
PUNCH BOWL AND GET ACQUAINTED
Lunai Suite
A.A.E. FELLOWSHIP RECEPTION
Brandywine Ballroom

Friday, April 23rd
9:15 A.M.-4:15 P.M.
PHILADELPHIA TOURS
Tour 1—Old Philadelphia
Tour 2—Winterthur and Longwood Gardens
Tour 3—Museums and Shopping
Tour 4—Special Children’s Tour
   (Luncheon included on all tours)
Bus will leave from Commonwealth Ballroom Entrance

Saturday, April 24th
9:00-11:45 A.M.
Tour 5—Barnes Foundation
Bus will leave from Commonwealth Ballroom Entrance

11:30-12:30 P.M.
A.A.E. Women’s Auxiliary Business Meeting
   (Presidential Apartments — Adams Room)

12:30-2:30 P.M.—Presiding:
MRS. GEORGE ISRAEL, President
Luncheon—with Fashions from Saks Fifth Avenue
   (Presidential Apartments — Adams Room)
   (Shuttle Service by bus from Commonwealth Ballroom Entrance)

LADIES CONVENTION
MRS. GEORGE A. ZURKOW, Chairman
MRS. DAVID L. DYEN
MRS. I. B. BENDER
MRS. GEORGE GRAHAM
MRS. EDGAR R. KUNZ
MRS. SEYMOUR OLIET
MRS. LEONARD N. PARRIS
MRS. SAMUEL R. ROSSMAN
MRS. SAMUEL SELTZER
MRS. DAVID E. SNYDER
MRS. CARL TINKELMAN
MRS. ROBERT WILSON
MRS. MORRIS ZITANER
Program Details
THURSDAY, APRIL 22nd
RESEARCH SEMINAR — Brandywine Ballroom — Salons D, E

Moderator — MELVIN GOLDMAN, D.D.S.
Sch. Dent. Med.; Diplomate A.B.E.

9:00 - 9:30
SYSTEMIC TETRACYCLINE
COMDR. JOSEPH H. BURKE,
D.C. USN
M.S. Univ. Mich. 1970

EFFECT ON ENDODONTIC CULTURES
Patients undergoing endodontic treatment
were medicated with tetracycline systemically
in order to determine whether or not
the tetracycline could be isolated from the
root canals.

9:30 - 10:00
CLINICAL APPLICATION
OF PULP VITALITY TESTING USING
CHOLESTERIC LIQUID CRYSTALS
THOMAS P MULLANEY, D.D.S., M.S.D.
Assoc. Prof., Chrnn., Dept. Endo.,
Univ. Kentucky; Diplomate A.B.E.;
Consultant, V.A. P.H.S., U.S.A.F.

The feasibility of using cholesteric liquid crys-
tals for pulp testing teeth adjacent to osteo-
tomized segments of the mandible and maxilla
is examined.

10:00 - 10:45
DENTAL PULP PHOTOPLETHYSMOGRAPHY IN HUMANS
ITZHAK SHOREN, D.M.D.
Hadassah Sch. Dent. Med., Hebrew
Univ. (1967); Grad student Tufts
Univ.

Circulatory changes in human dental pulp are
investigated with a photoplethysmographic
technique. The effect on a normal tooth of
respiration, local cooling or heating, and axial
pressure is studied before and after applica-
tion of local anesthesia.

10:45 - 11:30
A METHOD OF DIFFERENTIAL DIAGNOSIS OF PERIAPICAL
LESIONS
MARVIN A. GROSS, D.D.S.,
Temple Univ. Sch. Dent.

In order to develop a precise method of dif-
fferential diagnosis between a granuloma and
cyst, the technique of acrylamide gel electro-
phoresis, a biochemical modality that sepa-
rates protein fractions, is employed.

11:30 - 12:00
FILLING ROOT CANALS WITH FILES
JULIUS FOX, D.D.S.
Ctr. and Bronx Mun. Hosp.

304 teeth filled with files, deliberately or
accidentally, have been re-examined radi-
ologically from 2 to 10 years post-operatively.
THURSDAY, APRIL 22nd
RESEARCH SEMINAR — Brandywine Ballroom — Salons D, E

Moderator — RICHARD M. MOODNICK, B.A., D.D.S.
Temple Univ. Sch. Dent.; Diplomate A.B.E.

2:00 - 3:00
RESEARCH IN ENDODONTICS — METHODOLOGICAL CONSIDERATIONS

MARWAN ABOU-RASS, D.D.S., M.D.S.

Discussion of an actual endodontic research problem will include trends of past related research, differences between basic and applied research, research design, methodological considerations and research techniques.

3:00 - 3:30
SCANNING ELECTRON MICROSCOPE STUDIES OF ROOT CANAL FILLING MATERIALS

DANIEL B. GREEN, D.D.S.*
NEIL WEINER, D.D.S.
SAMUEL SELTZER, D.D.S.
Temple Univ. Sch. Dent.

The scanning electron microscope and electron probe were used to study various root canal filling materials commonly used in endodontics. The results indicate distinct differences in adaptability.

3:30 - 4:00
SCANNING ELECTRON MICROSCOPE STUDIES OF ROOT CANALS FILLED BY VARIOUS TECHNIQUES

NEIL WEINER, D.D.S.*
DANIEL B. GREEN, D.D.S.
SAMUEL SELTZER, D.D.S.
Temple Univ. Sch. Dent.

Examination of the interface between root canal fillings and root canal walls reveals gross differences in sealing properties by different techniques.

4:00 - 4:45
STUDY FOR IMPROVEMENT OF ROOT CANAL INSTRUMENTS

SOLOMON M. SORIN,* B.S.M.E., M.B.A.

SEYMOUR OLIET, D.D.S.

* Speaker

With the development of specialized test equipment and realistic evaluation criteria, determination has been made of the physical characteristics of a variety of instruments and the effects of heat, chemicals, plating, and changes in materials.
FRIDAY, APRIL 23rd
SYMPOSIUM: ENDODONTIC-PERIODONTAL PROBLEMS
Commonwealth Ballroom Salons H, J.

Moderator — JOHN I. INGLE, D.D.S., M.S.D.
Dean, U.S.C. Sch. Dent.; Past President A.A.E.
Diplomate, A.B.E.

9:00 - 9:45
ETIOLOGY

This discussion will include a review of the periodontium and those factors which contribute to the pathogenesis of the combined pulpal-periodontal lesion.

9:45 - 10:30
COMBINED THERAPY

Treatment of Endo-perio lesions will be discussed with emphasis on the biological considerations of this problem, and the effect of periodontal therapy on the pulp.

10:30 - 11:30
RESTORATIVE CONSIDERATIONS

Special consideration must be given in the restoration of endodontically treated teeth, particularly when they are to serve as abutments.

11:30 - 12:00
PANEL DISCUSSION
FRIDAY, APRIL 23rd
AUDIO-VISUAL — Brandywine Ballroom — Salons D, E

9:00-12:00—Presiding:

WESLEY E. BRAMNICK, D.D.S.

See pages 7, 8 for details.

12:00 - 2:00
LUNCHEON WITH LEARNING

12:00-2:00—Presiding:
DRS. RICHARD WEISS
and
HAROLD RAPPAPORT

Brandywine Ballroom Salons:
A, B, C—Tables #1-10
F, G—Tables #11-30
Commonwealth Ballroom Salons:
K, L—Tables #31-52

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FRIDAY, APRIL 23rd
ROOT STUDIES — Commonwealth Ballroom — Salons H, J

Moderator — LOUIS I. GROSSMAN, D.D.S.,
Dr. med. dent.
Dent. Med.
Past Pres. A.A.E.
Past Chrmn. A.B.E.

2:00 - 2:30
ROOT FRACTURES

ANDREW E. MICHAWOICZ, B.S.,
D.D.S.
Assoc. Prof. Dir. Grad. & P.G. Div.
Endo., Univ. of Pitt. Sch. Dent. Med.
Trustee, A.A.E. Endowment and
Mem. Fund; Diplomate A.B.E.

This lecture will deal with root fractures and
healing of same. Histologic and clinical evidence
will be presented as well as method of treatment.
The presentation will cover a 12-year longitudinal
clinical and roentgenographic study.

2:30 - 3:00
THE PROBLEM OF ROOT CARIES

NEAL W. CHILTERN, B.Sc., D.D.S.,
M.P.H., F.A.C.D.,
Dent.; Senior Res. Assoc., Col. Univ.
Sch. Pub. Health; Lecturer Perio.,
Diplomate A.B.E. and A.B.P.

Cemental (root) caries is a different disease entity
than enamel caries and is an important etiological
factor in the initiation of pulpal pathosis.
It is usually associated with periodontal disease,
often escapes early detection, is difficult to treat,
and is more prevalent than previously thought.

3:00 - 3:30
PERFORATIONS

GEORGE FELDMAN, D.D.S.
Chief, Endo., Kingsbrook Med. Ctr.,
Jew. Hosp., Brooklyn & Brookdale
Med. Ctr.
Diplomate A.B.E.

Treatment and prognosis of the following types
of perforations; Non-iatrogenic perforations
(anatomic defects, internal resorption), post
preparations, excavation of caries, mechanical
perforations in pulp chamber floor, perforations
during canal instrumentation, and intentional
perforations—utilizing endodontic stabilizers.
FRIDAY, APRIL 23rd

3:30 - 4:00

ROOT RESORPTION

NOAH CHIVIAN, D.D.S.
Chief, Endo., Newark Beth Israel Med. Ctr.; Pres. Newark Dental Club; Diplomate A.B.E.

Problems of root resorption will be explored by microscope, x-ray and camera to obtain insight into its causes and cures. Root resorptions related to orthodontic movement and replantations will be emphasized.

4:00 - 4:30

MICROCIRCULATION

DUANE E. CUTRIGHT, D.D.S., Ph.D.

The microcirculation of the pulp, periodontal membrane, alveolar bone periosteum, and submucosa will be presented. The reaction and relationship of these vascular channels to disease of the pulp and periodontium will be discussed.

4:30 - 5:00

PULPAL PAIN — LOCALIZATION, CONTROL

HENRY J. VAN HASSEL, D.D.S., M.S.D., Ph.D.

New findings which provide a neurophysiologic basis for pulp pain localization will be presented. A rational procedure for controlling intractable pulpal pain will be described. Preliminary data which indicate that heat and cold act differently to produce pulpalgia will be cited.
FRIDAY, APRIL 23rd
RESEARCH SEMINAR — Brandywine Ballroom — Salons D, E

Moderator — SAMUEL SELTZER, D.D.S.
Prof., Chrnn., Endo., Temple Univ. Sch. Dent.; Member A.E.E.
Attending Chief, Endo. A.E.M.C. Phila.

2:00 - 2:30
MODELS OF PREPARED ROOT CANALS
MELVIN GOLDMAN, D.D.S.
Assoc. Clin. Prof. Endo.,
Tufts Univ. Sch. Dent. Med.;
Diplomate A.B.E.
Rubber models of previously prepared root canals in extracted teeth were obtained after inserting silicone rubber under pressure into the canals then decalcifying and dissolving the teeth.

2:30 - 3:00
TISSUE RESPONSE TO RTV — SILASTIC WHEN USED AS A ROOT SEALER
FRANKLIN G. KASMAN, D.D.S.
Univ. Tex. Dent. Br., 1966
Tufts Univ., P.G. Sch. Dent.
Following instrumentation and canal preparation on vital teeth and teeth with apical lesions in monkeys, the root canals were overfilled with RTV-Silastic rubber so that the material extruded into the apical areas. The tissue was then evaluated histologically after periods up to one year post-operatively.

3:00 - 3:30
A CORRELATION OF CLINICAL SYMPTOMS, PULPAL HISTOPATHOLOGY
WILLIAM E. BOWDEN, D.D.S.
Asst. Prof. Dent., Sch. Dent.
Human carious teeth were examined prior to extraction. After removal the teeth were fixed, processed, sectioned, stained, and microscopically evaluated to determine the degree of histopathology and bacterial penetration.

3:30 - 4:30
BIOLOGIC EFFECT OF CALCIUM HYDROXIDE AND FORMOCRESOL PULPOTOMY
KAARE LANGELAND, D.D.S., Ph.D.
Prof. & Head, Dept. Endo.
Univ. Conn.
The effects of calcium hydroxide or formocresol used in pulpotomy appear to be similar when examined histologically. A criterion for success is continued vitality in the remaining pulp tissue and not dentine bridge formation.

4:30 - 5:00
FETAL DEVELOPMENT OF PULPAL INNERRVATION
STUART B. FOUNTAIN, A.B., D.D.S.,
M.Sc.
Asst. Prof., Endo. & Dir. Grad.
The development of pulpal innervation of deciduous teeth was studied in swine fetuses. The direct correlation between stage of tooth development and time of neural penetration of the dental pulp will be documented.
SATURDAY, APRIL 24th
PERIAPICAL BIOLOGY — Commonwealth Ballroom — Salons H, J

Moderator — I. B. BENDER, D.D.S.

Vice-Pres. A.A.E.
Diplomate A.B.E.

9:00 - 10:10
IMMUNOLOGICAL FINDINGS IN PERIAPICAL LESIONS

PAUL A. TOLLER, F.D.S.R.C.S.,
L.D.S., R.C.S. Eng.;
Hunterian Prof. Roy. Coll. Surg. of
Vernon Hosp., England

New conceptions of jaw cysts have arisen from recent immunological studies. Many cysts fluids contain large amounts of immunoglobulin, locally produced in its walls, differing from serum, and unrelated to clinical infection. The observations may represent a host reaction against the presence of active epithelium in connective tissue of the alveolus, and the body may be trying to reject its cysts.

10:10 - 11:30
CURRENT ADVANCES IN IMMUNOLOGY AND
TRANSPLANTATION BIOLOGY

HERMAN FRIEDMAN, Ph.D.
Assoc. Prof., Microbiol. Temple

Many major advances have been made in recent years concerning the mechanism of the immune response, especially as related to the biology and metabolism of cells participating in cellular formation of antibody. The relationship of modern concepts of the immune response to the more specific area of transplantation immunity will be discussed from the viewpoint of cellular interactions and recognition.

11:30 - 12:00
THE ELECTRIC ROOT CANAL METER AND CARIES
DETECTION DEVICE

KATSEUI MORI, D.D.S.
Dent. Univ.; Fellow Pedo. Guggenheim
Dent. Clin.; Staff U.S.A.F. Tachikawa
Air Force Base Tokyo; Pres. Tokyo
Endo. Soc.

The presentation will attempt to demonstrate the electrical resistance between tissue structures and the degree of caries depth without radiation exposure. The clinical application of filling the root canal within biological limits and a method of determining the presence of deep caries will be illustrated with statistical data.
SATURDAY, APRIL 24th

ENDODONTIC PRACTICE ADMINISTRATION — Delaware Ballroom, North

Moderator — JULIUS FOX, D.D.S.
Diplomate A.B.E.

9:00 - 9:50
HELP! ENDODONTIC PROBLEM #1

Auxiliary personnel are singularly the most effective and costly means for the endodontist to accomplish the greatest productivity per unit of time. This discussion will include: hiring help, their duties, employee benefits, and utilization of an office manual for training.

9:50 - 10:40
ENDODONTIC REFERRALS — FROM FIRST CONTACT TO FINAL REPORT

Referrals should be handled in such a way that a favorable impression is made for endodontic treatment as well as for the referring dentist. “Understandings will avoid misunderstandings.” Our method of accomplishing this will be covered.
I BUSINESS MACHINES IN AN EFFICIENT ENDODONTIC PRACTICE
II FINANCIAL GOAL SETTING IN AN ENDODONTIC PRACTICE

Gerald C. Dietz, D.D.S., M.S.
Grad. Endo., Univ. Mich.; member,
Corporate dental practice; Diplomate
A.B.E.

I The administration of an efficient practice requires the use of modern office equipment. This presentation will discuss various mechanical aids and their useful applications.

II In a private organized endodontic practice, financial rewards will accrue. It behooves all of us who work hard to plan well so that financial goals, realistically established, can be achieved.

11:30 - 12:00
PANEL DISCUSSION

TABLE CLINICS — Fairmount-Pennsbury Rooms
Presiding: DR. JOEL L. DUNSKY

9:00-12:00
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1 ANATOMICAL VARIATIONS IN MOLAR ROOT CANALS
This presentation will describe the microscopic variations that occur such as: additional canals, curvatures, and bifurcation.

DR. WARREN RUDNER
(Univ. of Pa.)

2 APEXIFICATION
This clinic will describe the biologic processes involved in root formation and clinical methods used to stimulate root closure.

DR. NEIL BALICK
(Forsyth-Harvard)
Boston, Mass.

3 THE ENDO-PERIO LESION
The problems in examination, diagnosis and treatment of the combined endodontic-periodontic lesion are described.

DR. NORMAN A. DINNERMAN
(Alb. Inst. Med. Ctr.)

4 ENDODONTIC IMPLANTS
Criteria are established for tooth selection and maintaining periodontal health. The techniques of tooth and bone preparation, implant insertion, and crown restoration are presented.

DR. EDWARD H. GREEN
Coral Gables, Fla.

5 APEXIFICATION
Clinical and histological aspects of treatment of the wide open apex are presented.

DR. JOHN DYLEWSKI
Birmingham, Mich.

6 PAINLESS PULPITIS
Clinical data on asymptomatic teeth will be correlated with histopathological status of the pulp.

Drs. Alan Levick, Paul Scola
(Tufts) Boston, Mass.
SUNDAY, APRIL 24th

Table #

7 RETROGRADE FILLING TECHNIQUES
This clinic will include a description of the classification, materials, indications, advantages, and prognosis of retrograde filling techniques.

DR. LOUIS E. HIRSCHMAN
Southfield, Mich.

8 INVENTORY CONTROL IN ENDODONTICS
An easy, convenient, workable solution to the endless task of ordering and keeping the inventory supply current.

DRS. JACK L. LAURIE,
ARNOLD ZUROFF
Southfield, Mich.

9 PRESSURE, PAIN, AND PULP
A means of determining the relationship between clinical symptoms elicited by thermal and electric stimuli and the pathophysiologic status of the pulpal microcirculation as evidenced by intrapulpal pressure measurements will be described.

DRS. GERALD W. HARRINGTON,
HENRY VAN HASSEL,
STANLEY S. ANDREWS
(Univ. Wash.)
Seattle, Wash.

10 BACTERICIDAL EFFECTS OF NON-SPECIFIC INTRACANAL MEDICAMENTS
A bacteriological and clinical study of bactericidal effects of non-specific intracanal medicaments.

DR. HUGH F. TREANOR
(Tufts) Boston, Mass.

11 HELPFUL HINTS IN ENDODONTICS
A description of many useful aids in clinical endodontic practice.

DR. JEROME ROBBINS
(Alb. Einst. Med. Ctr.)

12 MANAGEMENT OF ROOT FRACTURES
Examples of various methods of treating root fractures according to location of the fracture.

DR. JOHN W. HAM
Dallas, Texas

13 ENDODONTIC PRE-TREATMENT
Using radiographs, slides, and models a technique will be presented for a rational pre-treatment procedure for endodontic teeth.

DRS. DOUGLAS W. STEWART,
ROGER CZARNECKI
(Bost. Univ.)
Boston, Mass.

14 VERTICAL CONDENSATION OF WARM GUTTA PERCHA
A warm gutta percha technique for the complete obturation of the root canal system will be demonstrated.

DRS. JOHN T. HANCOCK,
STEPHEN MORROW
(Bost. Univ.)
Boston, Mass.

15 THE USE OF INSTRUCTIONAL MEDIA IN DENTAL EDUCATION
A demonstration will be presented of the various applications in both school and office of currently used instructional media.

DRS. JOSEPH MAGGIO,
ROGER SPOTT,
ABRAHAM BARNETT,
JOSEPH PATHIK
(Temple Univ.)
SATURDAY, APRIL 24th

EDGAR D. COOLIDGE MEMORIAL LUNCHEON — Brandywine Ballroom
Presiding: DR. SEYMOUR OLLET
12:00 -2:00

IN MEMORIAM

DR. HENRY A. BARTELS
1895 - 1969


by

Dr. Harry Blechman
Dean, N.Y.U., College of Dentistry

EDGAR D. COOLIDGE MEMORIAL LECTURE
IN HIS LIFETIME

A brief historical review of the development of endodontics during the lifetime of Edgar D. Coolidge from an empiric practice to a recognized scientific specialty.

by

Dr. Louis I. Grossman
Professor, Oral Med.,
SATURDAY, APRIL 24th
PERIAPICAL BIOLOGY (Clinical) — Commonwealth Ballroom —
Salons H, J

Moderator — GEORGE G. STEWART, D.D.S.
Professor, Chrnn., Endo., U.C.L.A. Sch. Dent.
Past President A.A.E.
Past Chairman A.B.E.

2:00 - 2:40
THE ROOT APEX IN ENDODONTIC DIAGNOSIS

EDWARD C. PENICK, B.S., D.M.D.
Capt. Dent. Corp, U.S. Navy
Head Endo., Dept. and Dir. Grad.
Prog., Naval Dent. Sch. Bethesda
Diplomate A.B.E.

This paper will discuss the differential diagnosis of periapical pathology, resultant anatomic alterations of the apex and their implications in planning endodontic therapy.

2:40 - 3:20
THE ROOT IN ENDODONTIC-PERIODONTIC INTERRELATIONS

FREDERIC M. CHACKER, A.B., D.D.S.
Dent. Med.; Consultant Perio, U.S.
Army, Ft. Dix, N. J.; Consultant
Perio, Cent. Univ. Caracas,
Diplomate A.B.P.

The biologic relationship of the pulp to the attachment apparatus has been established on a histologic basis. Disease affecting one may cause a pathologic response in the other. Therapeutic procedures and the sequence of treatment must take this interrelationship into consideration.

3:20 - 4:00
WHAT SHOULD THE ENDODONTIST KNOW ABOUT ORTHODONTICS?

MARVIN C. GOLDSTEIN, D.D.S.,
F.A.C.D.
Past Int'l. Pres., Alpha Omega
Past Pres., Inter frat. Dent. Counc.
Visiting Prof. Nihon Univ. Japan
Diplomate A.B.O.

Orthodontic considerations concerning endodontically treated teeth will be presented. Interesting orthodontic problems before and after endodontic therapy and the treating of unusual adult malocclusions will be discussed.
SATURDAY, APRIL 24th

NEW CONCEPTS IN DENTAL EDUCATION — Delaware Ballroom, North

Moderator — HERBERT SCHILDER, B.A., D.D.S.
Asst. Dean, Cont. Ed. & Prof., Chrmn., Endo.,
Member A.B.E.
Diplomate A.B.E.

2:00 - 3:00

TEACHING FOR THE FUTURE

LEO NEDELSKY, Ph.D.
Faculty Univ. Ill. Sch. Dent. &
Univ. Chic.; Lecturer U.S.A. and
Latin Amer. Author of five texts

Understanding, ability to learn and professional attitudes can be taught and will be of permanent value to the dentist. Knowledge soon becomes obsolete and forgotten.

3:00 - 4:00

THE STUDENT OF THE '70'S

STANFORD S. KIGHT, Ph.D.
Prof. Behavioral Sci., Drexel

The student of the '70's will no more resemble the student of the past decade than that decade of student resembled us as students. He will come with a different value system having grown up with a different set of priorities in a rapidly deteriorating educational system and significant outlook with past, present, and his future. He will pose opportunities as well as challenges. We need to know more about him in order to meet these.

BUSINESS MEETING — 4:00 P.M.
PRESIDING — DR. JOHN F. BUCHER, PRESIDENT
COMMONWEALTH BALLROOM — SALONS H, J
SUNDAY, APRIL 25th

RESEARCH SEMINAR — Brandywine Ballroom — Salons D, E

Moderator — KAARE LANGELAND, D.D.S., Ph.D.

Prof. and Chrmn., Dept. Endo., Univ. Conn.

9:00 - 10:00

NERVES IN PULP AND DENTIN

KAARE LANGELAND, D.D.S., Ph.D.
Prof. & Chrmn., Dept. Endo.,
Univ. Conn.

The marked disagreement regarding pain reception in dentin and pulp is evaluated. Histologic demonstrations will be substituted for speculation about the pulp as a mechanoreceptor.

10:00 - 10:30

ROENTGENOGRAPHIC INTERPRETATION OF BONY LESIONS

STEPHEN F. SCHWARTZ, B.A.,
D.D.S., M.S.
Univ. Texas, Sch. Dent.
O.K.U.

Preoperative and postoperative roentgenograms of surgical osseous wounds in a living baboon and similar experimental lesions in a dried human skull are compared.

10:30 - 11:00

THE EFFECT OF A PREDNISOLONE CONTAINING ROOT CANAL MEDICAMENT ON PLASMA CORTISOL LEVELS

DAVID W. MILLER, JR., B.S., D.M.D.
Temple Univ., Sch. Dent.

Synthetic adrenocorticosteroids have been used therapeutically to eliminate pulpal and periapical pain prior to and during endodontic treatment. This paper examines their effects on the systemic endocrine balance.

11:00 - 11:30

AN ULTRASTRUCTURAL COMPARISON BETWEEN THE "MATURE" HUMAN DENTAL PULP AND THAT OF THE CONTINUOUSLY GROWING RAT INCISOR

DAVID BREYAN, D.M.D.*
cum laude Harvard Univ.;
A.D.A., A.A.E., S.C.A.D.A.,
O.K.U.

HERBERT SCHILDER, D.D.S.
Prof. Chrmn., Endo. & Asst.
Grad. Dent.

* Speaker

The pulp of the rat incisor resembles primitive dental tissue. Within its loose ground substance lie numerous undifferentiated cells coded for specialization along certain cell lines (viz.: odontoblasts, fibroblasts, macrophages) depending upon various undefined induction mechanisms. This study examines the fine structure of this tissue and compares findings thereof with the fully differentiated human pulp.
SUNDAY, APRIL 25th
1130 - 12:00
MICROBIAL EVALUATION OF INFLAMMATORY EXUDATE IN
ACUTE ENDODONTIC FLARE-UPS

IRA J. ZOHN, D.M.D.*
Res. Fellow W.I.H. grant;
recipient A.A.E. stud. award;
recipient Int'l. Coll. Dent.
Award

HERBERT SCHILDER, D.D.S.
Prof. Chrmn., Endo. & Asst.
Grad. Dent.

* Speaker

This report will summarize the available data from a continuing study of the microbial flora associated with acute flare-ups of teeth of patients at the Boston Univ. School of Graduate Dentistry. An attempt will be made to correlate the etiology of the flare-up with the presence, absence or distribution of microorganisms.

9:00 - 12:00
AMERICAN ASSOCIATION OF DENTAL SCHOOLS:
ENDODONTIC SECTION

Presiding: F. JAMES MARSHALL, D.M.D., M.S.
Prof., Head, Endo., Ohio St., Sch. Dent.
Consultant, V.A. Hosp., Dayton, Ohio
Consultant, Wright-Patterson AFB.;
O.K.U., Sigma XI; Diplomate A.B.E.

(Meeting limited to members of A.A.D.S. Endodontic Section)

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