

PHILADELPHIA



INDEPENDENCE HALL



BENJAMIN
FRANKLIN



LIBERTY BELL



BETSY ROSS HOUSE



WILLIAM
PENN

1971

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Twenty-Eighth Annual Meeting of the American Association of Endodontists



April 22, 23, 24, 25, 1971

Philadelphia Marriott

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

John F. Bucher, D.D.S.
President



CITY OF PHILADELPHIA

JAMES H. J. TATE
MAYOR

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.

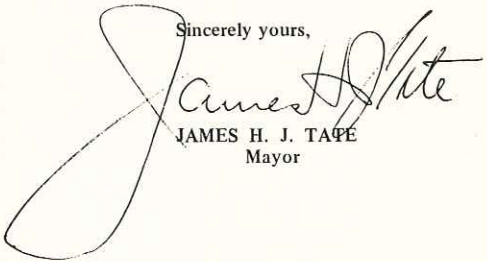
Philadelphia has long played a vital and important role in the development of dental knowledge and practice. Indeed, one of the founders of your field of endodontics, Dr. Louis Grossman, is Professor of Oral Medicine and Director of Endodontics at the University of Pennsylvania School of Dental Medicine.

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.



Seymour Altshuler
Program



George J. Zuckerman
Local Arrangements



Calvin Torneck
Program



Donald E. Snyder
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

IRVING J. NAIDORF

FRANK B. TRICE

1972

ORREN A. BOLT

THOMAS P. MULLANEY

CALVIN D. TORNECK

1971

MICHAEL A. HEUER

JULIAN L. KELLY

RICHARD M. MOODNIK

Immediate Past President

Historian

WARREN J. HEDMAN

VINCENT B. MILAS

AMERICAN BOARD OF ENDODONTICS

M. B. AUERBACH, *Chairman*

HERBERT SCHILDER

JOHN DOWSON, *Secretary*

SAMUEL SELTZER

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

WILLIAM A. MUSGRAVE
 A. A. PAPERMASTER
 H. H. PEARSON
 JOHN R. PHARR
 S. M. RAFISH
 PERCY J. ROSS
 D. G. SIMMONS
 SAMUEL TURKENKOPF

Summary of Program — 1971

TWENTY-EIGHTH ANNUAL MEETING AMERICAN ASSOCIATION OF ENDODONTISTS

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

9:00- 9:30

CMDR. JOSEPH H. BURKE

SYSTEMIC TETRACYCLINE EFFECT ON
ENDODONTIC CULTURES

9:30-10:00

DR. THOMAS P. MULLANEY

CLINICAL APPLICATION OF PULP VITAL-
ITY TESTING USING CHOLESTERIC
LIQUID CRYSTALS

10:00-10:45

DR. ITZHAK SHOHER

DENTAL PULP PHOTOPLETHYSMOGRAPHY
IN HUMANS

10:45-11:30

DR. MARVIN A. GROSS

A METHOD OF DIFFERENTIAL DIAGNOSIS
OF PERIAPICAL LESIONS

11:30-12:00

DR. JULIUS FOX

FILLING ROOT CANALS WITH FILES

12:00- 2:00

LUNCHEON

Brandywine Ballroom—Salons A, B, C

Moderator — DR. RICHARD M. MOODNICK

2:00- 3:00

DR. MARWAN ABOU-BASS

RESEARCH IN ENDODONTICS—
METHODOLOGICAL CONSIDERATIONS

3:00- 3:30

DRS. DANIEL G. GREEN*
NEIL WEINER
SAMUEL SELTZER

SCANNING ELECTRON MICROSCOPE
STUDIES OF ROOT CANAL FILLING
MATERIALS

3:30 -4:00

DRS. NEIL WEINER*
DANIEL B. GREEN
SAMUEL SELTZER

SCANNING ELECTRON MICROSCOPE
STUDIES OF ROOT CANALS FILLED
BY VARIOUS TECHNIQUES

4:00- 4:45

DR. SEYMOUR OLIET
SOLOMON SORIN*

STUDY FOR IMPROVEMENT OF ROOT
CANAL INSTRUMENTS

* 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**
- 11:30-12:00
- 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 OLJET,
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 OYNICK,
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

Chairmen:

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
INNERVATION

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 DR. PAUL A. TOLLER IMMUNOLOGICAL FINDINGS IN
PERIAPICAL LESIONS

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

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

**ENDODONTIC PRACTICE ADMINISTRATION — Delaware Ballroom,
North**

Moderator — DR. JULIUS FOX

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

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

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

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. DINNEMAN |
| 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 |

SATURDAY, APRIL 24th

Table

11	HELPFUL HINTS IN ENDODONTICS	DR. JEROME ROBBINS
12	MANAGEMENT OF ROOT FRACTURES	DR. JOHN W. HAM
13	ENDODONTIC PRE-TREATMENT	DRS. DOUGLAS W. STEWART, ROGER CZARNECKI
14	VERTICAL CONDENSATION OF WARM GUTTA PERCHA	DRS. JOHN T. HANCOCK STEPHEN MORROW
15	THE USE OF INSTRUCTIONAL MEDIA IN DENTAL EDUCATION	DRS. JOSEPH MAGGIO, ROGER SPOTT, ABRAM BARNETT, JOSEPH PATNIK

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.

ANNUAL BUSINESS MEETING OF THE A.A.E.

Commonwealth Ballroom—Salons H, J

6:30-7:30—Hosts:

LOUIS I. GROSSMAN ENDODONTIC
STUDY CLUB

PRE-BANQUET RECEPTION

Commonwealth Ballroom—Salons H, J

7:30—Presiding:

DRS. GEORGE A. ZURKOW and
DAVID E. SNYDER

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

10:55-11:25

DR. HENRY J. VAN HASSEL

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 BREYAN*

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

AMERICAN ASSOCIATION OF DENTAL SCHOOLS, ENDODONTIC SECTION

Brandywine Ballroom—Salons A, B, C

* Speaker

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 WIDERMAN
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 schedule 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
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
Lanai Suite

6:30- 8:00 P.M.

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.

Assoc. Clin. Prof., Endo, Tufts Univ.
Sch. Dent. Med.; Diplomate A.B.E.

9:00 - 9:30

SYSTEMIC TETRACYCLINE EFFECT ON ENDODONTIC CULTURES

COMDR. JOSEPH H. BURKE,
D.C. USN

D.D.S., Univ. Mich. 1958;
M.S. Univ. Mich. 1970

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., Chrmn., Dept. Endo.,
Univ. Kentucky; Diplomate A.B.E.;
Consultant, V.A. P.H.S., U.S.A.F.

The feasibility of using cholesteric liquid crystals for pulp testing teeth adjacent to osteotomized segments of the mandible and maxilla is examined.

10:00 - 10:45

DENTAL PULP PHOTOPLETHYSMOGRAPHY IN HUMANS

ITZHAK SHOHER, 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 application of local anesthesia.

10:45 - 11:30

A METHOD OF DIFFERENTIAL DIAGNOSIS OF PERIAPICAL LESIONS

MARVIN A. GROSS, D.D.S.,

Asst. Clin. Prof., Grad. Endo.,
Temple Univ. Sch. Dent.

In order to develop a precise method of differential diagnosis between a granuloma and cyst, the technique of acrylamide gel electrophoresis, a biochemical modality that separates protein fractions, is employed.

11:30 - 12:00

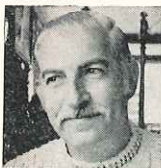
FILLING ROOT CANALS WITH FILES

JULIUS FOX, D.D.S.

Assoc. Clin. Prof., Alb. Einst. Coll.
Med.; Chief, Endo., L. I. Jewish Med.
Ctr. and Bronx Mun. Hosp.

304 teeth filled with files, deliberately or accidentally, have been re-examined radiologically 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.

Clin. Assoc. Prof. Grad. Endo.
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
Dept. Grad. Endo., Univ. Pitt. 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.* The scanning electron microscope and electron
NEIL WEINER, D.D.S. probe were used to study various root
SAMUEL SELTZER, D.D.S. canal filling materials commonly used in endo-
Temple Univ. Sch. Dent. dontics. The results indicate distinct dif-
ferences in adaptability.

3:30 - 4:00

SCANNING ELECTRON MICROSCOPE STUDIES OF ROOT CANALS FILLED BY VARIOUS TECHNIQUES

NEIL WEINER, D.D.S.* Examination of the interface between root
DANIEL B. GREEN, D.D.S. canal fillings and root canal walls reveals gross
SAMUEL SELTZER, D.D.S. differences in sealing properties by different
Temple Univ. Sch. Dent. techniques.

4:00 - 4:45

STUDY FOR IMPROVEMENT OF ROOT CANAL INSTRUMENTS

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

Systems Engineer, Fire Control Lab.,
U.S. Army, Frankford Arsenal, Phila.,
Pa.; Res. Assoc. Endo. Univ. Pa.
Sch. Dent. Med.

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.

SEYMOUR OLIET, D.D.S.

Assoc. Prof. U. of Pa., Sch. Dent.
Med.; Attending Chief. Endo.,
A.E.M.C., Phila., Pa.; Consultant,
Endo., V.A. (Phila.) U.S. Army,
(Ft. Dix, N. J.)

* Speaker

FRIDAY, APRIL 23rd
SYMPOSIUM: ENDODONTIC-PERIODONTIC 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



D. WALTER COHEN, D.D.S.
Assoc. Dean, Acad. Aff., Prof., Chrmn.,
Perio., U. of Pa. Sch. Dent. Med.,
Diplomate A.B.P., Fellow Am.
Acad. Oral Path.

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



**RICHARD E. STALLARD, B.S.,
D.D.S., M.S.D., Ph.D.**
Prof. Perio. Dir. Res., Bost. Univ.
Sch. Grad. Dent.; Consultant, Counc.
Dent. Ed.

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



MORTON AMSTERDAM, D.D.S.
Prof., Dir., Post Grad. Perio-
Pros. U. of Pa. Sch. Dent. Med.

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.
Asst. Prof. U. of Pa. Sch.
Dent. Med.

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

<i>Table #</i>	<i>Topic</i>	<i>Host</i>
1	Oral Medicine and Endodontics — The Endodontist's Role in Oral-Facial Pain	DR. IRVING EPSTEIN
2	Indications for Single Visit Endodontics	DR. ABE SHEINGORN
3	Hemostasis During Periapical Surgery Utilizing Bone Wax	DR. HOWARD S. SELDEN
4	Acute Apical Abscess	DR. WALTER P. AUSLANDER
5	Endodontic Success—"The Elusive Pimp- pernel"	DR. CALVIN D. TORNECK
6	Pulp Therapy of Traumatized Young Anterior Teeth	DR. JAMES L. DANNENBERG
7	On Being a Good Doctor—Patient Relationship During Endodontic Procedures	DR. BERTRAM L. WOLFSOHN
8	The Endodontic Pressure Syringe	DR. ALVIN A. KRAKOW
9	An In-depth Look at Group Corporate Practice of Endodontics	DR. GEORGE C. ISRAEL
10	Economics of an Endodontic Practice	DR. SAMUEL S. PATTERSON
11	Manipulation of Warm Gutta-Percha in Root Canals	DR. HERBERT SCHILDER
12	Re-evaluation of Endodontic Failures	DR. VINCENT B. MILAS
13	Production of Transparencies from Dental X-Rays	DR. BENJAMIN SEIDLER
14	Mechanical Instrumentation for Gutta-Percha in Molars	DR. PIERRE R. DOW
15	Which Medicament, When?	DR. HARRY BLECHMAN
16	Psychological Aspects of Clinical Endodontic Procedures	DR. GEORGE C. HARE
17	Management of the Apprehensive Patient	DR. ARTHUR C. COBIN
18	Practice Management: Technical Aids During Treatment—Stationery & Forms	DR. RONALD M. GITTS

FRIDAY, APRIL 23rd

<i>Table #</i>	<i>Topic</i>	<i>Host</i>
19	Perforations and their Prognosis	DR. IRVING H. SINAI
20	Root Amputations and Hemisections	DR. HAROLD GERSTEIN
21	Resorptions and Fractures	DR. JACK LANDSBERG
22	The "Mini-Cone"—A Modified Method for Endodontic Radiography	DR. ADEEB E. THOMAS
23	Replantation of Evulsed Teeth—Technique and Progress	DR. GERARD T. GRASSI
24	A new Proposed Classification of the Pulpal-Periodontal Lesion	DR. WALTER SOLTANOFF
25	The Unusual in Endodontic Diagnosis	DR. IRVING J. NAIDORF
26	New Thoughts in Teaching Endodontics	DR. FREDRIC E. GOODMAN
27	Endodontic First Aid—Rapid Emergency Treatment to Alleviate Pain	DR. MELVIN GOLDMAN
28	Endodontic Preparation for Intraradicular Attachments	DR. PETER KAPSIMALIS
29	Intracanal Medications	DR. J. DAVID BRILLIANT
30	Improved Access Cavity	DR. BRUCE H. SEIDBERG
31	Consumer Psychology Essential to Endodontic Practice Management	DR. ANTHONY E. DIETZ
32	Effective Preoperative Medication with Demerol and Scopolamine	DR. JESSE A. MITCHELL, JR.
33	Silver Cones vs. Gutta Percha Cones—A Judgment For The Use of Each	DR. ROBERT J. SHANKLE
34	Endodontic Surgery (Aspects of Various Techniques)	DR. CALVIN REEMAN
35	Histologic Evidence of Repair in Apexogenesis	DR. ANDREW E. MICHANOWICZ
36	The Intraosseous Injection for Profound Anesthesia of Mandibular Molars	DR. JAMES H. PEARCE
37	Deviation of the Apical Foramen from the Radiographic Apex	DR. LOUIS GLATT
38	Failures: Can They Be Corrected or Avoided?	DR. PAUL M. VANEK
39	Teaching Endodontics—A Four Year Integrated Program	DR. EDWARD E. BEVERIDGE
40	Filling Root Canals With Files	DR. JULIUS FOX
41	Periapical Pathosis	DR. JAMES W. BYNUM
42	Referred Pulpal Pain	DR. NOAH CHIVIAN
43	Softened Gutta Percha Technique: A Three Dimensional Filling Material	DR. LEO GRUDIN
44	Gutta Percha Diffusion Technique	DR. EDWIN B. NUTTING
45	Management of Endodontal-Periodontal Cases	DR. VIKTORS KALNINS
46	Review of Current Endodontic Literature	DR. BENJAMIN SHEIN
47	Audio-visual Education	DR. ANTONIO ROTHIER
48	Root Canal Filling Materials	DR. STENIO SOARES ETHER
49	Clinical Distribution of Pathosis in 2,000 Cases of Endodontics	DR. GUILLERMO MORA
50	The Use of Sulfathiazole in Endodontics	DR. FRANKLIN PINEDA
51	Endo or Perio—Which One First?	DR. ROBERT A. UCHIN
52	A Discussion of Endodontic Mythogenesis	DR. RICHARD A. MOODNICK

FRIDAY, APRIL 23rd

ROOT STUDIES — Commonwealth Ballroom — Salons H, J



**Moderator — LOUIS I. GROSSMAN, D.D.S.,
Dr. med. dent.**

Prof. Oral Med., Dir. Endo., Univ. of Pa. Sch.
Dent. Med.

Past Pres. A.A.E.
Past Chrmn. A.B.E.

2:00 - 2:30

ROOT FRACTURES



**ANDREW E. MICHANOWICZ, 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; Diplomat 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. CHILTON, B.Sc., D.D.S.,
M.P.H., F.A.C.D.,**

Clin. Prof. Perio, Temple Univ. Sch.
Dent.; Senior Res. Assoc., Col. Univ.
Sch. Pub. Health; Lecturer Perio.,
U. Pa. Sch. Dent. Med.
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.

Lt. Col., D.C., U.S. Army, Chief Oral
Path., U.S. Army Inst. Dent. Res.;
Assoc. Clin. Prof., Path. & Asst. Prof.
Oral Path., Georgetown Univ. Dent. Sch.

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.**

Asst. Prof. Endo., Physiology and Bio-
physics, Univ. Wash.; Assoc. Chief,
Dent. Sec. for Res. U.S.P.H.S. Hosp.,
Seattle

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., Chrmn., Endo., Temple Univ. Sch. Dent.; Member A.B.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.
Med., Endo. 1968-1970

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.
Med., Univ. Conn. Health Ctr.

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 INNERVATION

STUART B. FOUNTAIN, A.B., D.D.S., M.Sc.
Asst. Prof., Endo. & Dir. Grad.
Endo., Univ. No. Car., Sch. Dent.

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.



Assoc. Prof., Oral Med., Univ. Pa. Sch. Dent. Med.
Chairman, Dept. Dent. Med., Alb. Einst. Med. Ctr.
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
Eng.; Consultant Oral Surg., Mt.
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
Univ. Sch. Med.; Head, Micro-
biol. A.E.M.C., Phila.

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.
Res. Assoc. Oral Path., Tokyo Med.
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.

Assoc. Clin. Prof. A.E. Coll. Med.; Chief Endo.,
L.I. Jew. Med. Ctr.; Chief Endo., Bronx Muncpl.
Hosp.;
Diplomate A.B.E.

9:00 - 9:50

HELP! ENDODONTIC PROBLEM #1



ADOLPH BUSHELL, D.D.S.
Asst. Prof., Endo., Bost. Univ.
Grad. Sch. Med.; Staff, Endo.,
S.S. Hope (Ceylon);
Diplomate A.B.E.

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**



**JAMES H. SHERARD, JR., D.D.S.,
F.A.C.D., F.I.C.D.**
Asst. Prof., Chrmn., Endo. Emory
Univ. Sch. Dent.
Past Pres. A.A.E.
Pres.-elect, Ga. Dent. Assoc.
Diplomate, A.B.E.

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.

SATURDAY, APRIL 24th

10:40 - 11:30

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; Diplomat
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

Table #

- | | | |
|---|--|--|
| 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.)
Philadelphia, 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. DINNEMAN
(Alb. Inst. Med. Ctr.)
Philadelphia, Pa. |
| 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 N. 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. |

SATURDAY, 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 intra-pulpal 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. TREATOR
(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.)
Philadelphia, Pa.
- 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 PATNIK**
(Temple Univ.)
Philadelphia, Pa.

SATURDAY, APRIL 24th

EDGAR D. COOLIDGE MEMORIAL LUNCHEON — Brandywine
Ballroom

Presiding: DR. SEYMOUR OLIET

12:00 -2:00

IN MEMORIAM



DR. HENRY A. BARTELS

1895 - 1969

Bacteriologist, N. Y. State Dept. Health, 1919-1951; Asst. Path., Columbia Univ., Coll. Dent. Oral Surg., 1927-1928, Instructor, 1928-1935, Asst. Prof. 1937-1957, Lecturer, Bact. and Path., Sch. Oral Hyg. Columbia Univ. 1927-1957, Asst. Prof., Microbiol., Coll. Dent., N.Y.U., 1957-1961; Assoc. Clin. Prof. Microbiol., 1961-1969. Published over 70 articles, member: Sigma Xi, O.K.U. I.A.D.R., A.A.E., A.D.A., A.A.A.S. (Fellow), Res. Soc. Amer.



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 speciality.



by

Dr. Louis I. Grossman

Professor, Oral Med.,

Univ. Pa. Sch. Dent. Med.

SATURDAY, APRIL 24th
PERIAPICAL BIOLOGY (Clinical) — Commonwealth Ballroom —
Salons H, J



Moderator — GEORGE G. STEWART, D.D.S.

Professor, Chrmn., 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.
Assoc. Prof., Perio, U. Pa. Sch.
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., Interfrat. 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.,
Bost. Univ. Sch. Grad. Dent.
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
Inst. Tech., Phila., Pa.

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.

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.

HERBERT SCHILDER, D.D.S.
Prof. Chrmn., Endo. & Asst.
Dean Cont. Ed., B.U. Sch.
Grad. Dent.

* Speaker

SUNDAY, APRIL 25th

1130 - 12:00

**MICROBIAL EVALUATION OF INFLAMMATORY EXUDATE IN
ACUTE ENDODONTIC FLARE-UPS**

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

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.

HERBERT SCHILDER, D.D.S.
Prof. Chrmn., Endo. & Asst.
Dean Cont. Ed., B.U. Sch.
Grad. Dent.

* Speaker

9:00 - 12:00

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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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