



PROGRAM  
of the

*One Hundred Twenty-Sixth  
Annual Meeting*

**AMERICAN  
OTOLOGICAL SOCIETY, INC.**

**APRIL 17 - 18  
1993**

**CENTURY PLAZA HOTEL AND TOWER  
Los Angeles, California**

**OFFICERS**  
**JULY 1992 - JUNE 1993**

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The American Otological Society is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

This Continuing Medical Education offering meets the criteria for eight (8) credit hours in Category One (1) of the Physician's Recognition Award of the American Medical Association.

## SATURDAY, APRIL 17, 1993

REGISTRATION - 7:00 a.m.

BUSINESS MEETING - 7:00 a.m.

ROOM: The Beverly Hills Room (Restricted to Members)

Minutes of the Previous Annual Meeting

Introduction of New Members

Election of Nominating Committee

Report of the Secretary/Treasurer

Report of Editor/Librarian

SCIENTIFIC PROGRAM - 7:30 a.m.

ROOM: The Beverly Hills Room (Open to Non-Members)

Remarks by the President

**Mansfield F. W. Smith, M.D.**

Remarks by the Guest of Honor

**D. Thane R. Cody, M.D.**

Presidential Citation

**Helen H. Potter**

"Pioneer in Oral Education of the Hearing Impaired"

1. 8:00 a.m. ON GENETIC AND ENVIRONMENTAL FACTORS IN MENIERE'S DISEASE  
**Mr. Andrew W. Morrison\***  
**Professor James Mowbray**  
*(by invitation)*  
**Professor Robert Williamson**  
*(by invitation)*
2. 8:10 a.m. EVALUATION OF TORSIONAL EYE RESPONSES IN DIAGNOSIS OF VESTIBULAR DISORDERS  
**Walter H. Johnson, Ph.D., F.C.A.S.I.\***  
**Henry G. Kitts** *(by invitation)*  
**J. Wadia, B.Sc.** *(by invitation)*  
**Michael Thornton, B.A.Sc.**  
*(by invitation)*

\*Speaker

## NOTES

3. 8:20 a.m. AN ANIMAL MODEL OF TINNITUS:  
A DECADE OF DEVELOPMENT  
**P. J. Jastreboff, Ph.D.\*** *(by invitation)*  
**Clarence T. Sasaki, M.D.**
4. 8:30 a.m. ASSESSMENT OF THE STATUS OF  
THE PERIPHERAL AUDITORY SYS-  
TEM IN INFANTS AND CHILDREN  
USING EVOKED OTOACOUSTIC  
EMISSIONS  
**Susan J. Norton, Ph.D.\*** *(by invitation)*
5. 8:40 a.m. THE EFFECT OF PERILYMPHATIC  
FISTULAE ON DISTORTION  
PRODUCT EMISSIONS IN THE  
GUINEA PIG  
**John Kokesh, M.D.\*** *(by invitation)*  
**Susan Norton, Ph.D.** *(by invitation)*  
**Larry Duckert, M.D., Ph.D.**
6. 8:50 a.m. DISTORTION PRODUCT  
OTOACOUSTIC EMISSIONS IN THE  
ELDERLY AND IN PATIENTS WITH  
SENILE DEMENTIA OF THE  
ALZHEIMER'S TYPE  
**Philip Garcia, M.D.\*** *(by invitation)*  
**Judy Peterein, MS-CCA** *(by invitation)*  
**Roanne K. Karzon, Ph.D.** *(by invitation)*  
**George A. Gates, M.D.**

9:00 a.m. DISCUSSION

9:10 a.m.

## ADVANCED VESTIBULAR TESTING AND REHABILITATION DO THEY MAKE A DIFFERENCE?

### PANEL

Moderator - John R. E. Dickens, M.D.

#### *Panelists*

David Cyr, Ph.D. *(by invitation)*

Susan Herdman, Ph.D. *(by invitation)*

Charles Luetje, M.D.

Steven A. Telian, M.D. *(by invitation)*

**\*Speaker**

Robert Jackler, M.D.

## NOTES

- 10:00 a.m. DISCUSSION
- 10:10 a.m. INTERMISSION
7. 10:30 a.m. EPINEPHRINE INDUCED CHANGES  
IN HUMAN COCHLEAR BLOOD  
FLOW  
**Josef M. Miller, Ph.D.\***  
**Esa A. Laurikainen, M.D., Ph.D.**  
*(by invitation)*  
**Reidar Grenman, M.D., Ph.D.**  
*(by invitation)*  
**Jouko Suonpaa, M.D., Ph.D.**  
*(by invitation)*  
**Goran Bredberg, M.D., Ph.D.**  
*(by invitation)*
8. 10:40 a.m. CELL DIVISION IN THE GERBIL  
COCHLEA AFTER ACOUSTIC  
OVERSTIMULATION  
**David W. Roberson, M.D.\***  
*(by invitation)*  
**Edwin W Rubel, Ph.D.**
9. 10:50 a.m. CHANGES IN THE CENTRAL AUDI-  
TORY PATHWAY IN DEAFNESS  
**Jean K. Moore, Ph.D.\*** *(by invitation)*  
**John K. Niparko, M.D.** *(by invitation)*  
**Fred H. Linthicum, M.D.**
10. 11:00 a.m. REPAIR OF CHRONIC TYMPANIC  
MEMBRANE PERFORATIONS WITH  
EPIDERMAL GROWTH FACTOR  
**Robert K. Jackler, M.D.\***  
**Alice J. Lee, B.A.** *(by invitation)*  
**Ninetta M. Scott, B.A.** *(by invitation)*  
**C. Philip Amoils, M.D.** *(by invitation)*  
**Maya Cato, B.A.** *(by invitation)*

**\*Speaker**

## NOTES



11. 11:10 a.m. FUNCTIONAL LOCALIZATION IN EUSTACHIAN TUBE: A HYPOTHESIS  
**Isamu Sando, M.D., D.M.S.\***  
**Haruo Takahashi, M.D.** (*by invitation*)  
**Shoji Matsune, M.D., D.M.S.**  
*(by invitation)*  
**Hajime Aoki, M.D., D.M.S.**  
*(by invitation)*
12. 11:20 a.m. NEW KNOWLEDGE ABOUT THE FUNCTION OF THE HUMAN MIDDLE EAR  
**Richard L. Goode, M.D.\***  
**Mead Killion, Ph.D.** (*by invitation*)
- 11:30 a.m. DISCUSSION
13. 11:40 a.m. OTOLOGIC ASPECTS OF THE ACOUSTIC ENVIRONMENT IN RESTAURANTS  
**Charles P. Lebo, M.D.\*** (*by invitation*)  
**Ellen R. Mosher, M.S.** (*by invitation*)  
**Susan Jelonek, M.B.A.** (*by invitation*)  
**David R. Schwind, B.S.E.** (*by invitation*)  
**Karen Decker, B.A.E.** (*by invitation*)  
**Harlan Krusemark, B.S.** (*by invitation*)  
**Pamela Kurz, B. Arch.** (*by invitation*)
14. 11:50 a.m. TEST FITTING AN IMPLANTABLE HEARING AID ON 3D CT SCAN RECONSTRUCTIONS OF THE TEMPORAL BONE  
**Greg Esselman, B.S.\*** (*by invitation*)  
**Jim Coticchia, M.D.\*** (*by invitation*)  
**Michael Vannier, M.D.** (*by invitation*)  
**Gail J. Neely, M.D.**  
**John M. Fredrickson, M.D.**
15. 12:00 p.m. CLINICAL APPLICATIONS FOR MULTIPLE FREQUENCY TYMPANOMETRY  
**David J. Lilly, Ph.D.** (*by invitation*)  
**F. Owen Black, M.D., F.A.C.S.\***

**\*Speaker**

## NOTES

16. 12:10 p.m. MYCOBACTERIUM CHELONAE  
OTORRHEA  
**Daniel J. Franklin, M.D.\***  
**Michael G. Stewart, M.D.**  
*(by invitation)*  
**Richard J. Wallace, Jr., M.D.**  
*(by invitation)*  
**Jeffrey R. Starke, M.D.** *(by invitation)*
17. 12:20 p.m. FLOW CYTOMETRIC STUDY OF  
ACOUSTIC NEUROMAS: CORRELA-  
TION WITH CLINICAL FINDING  
**Donald W. Goin, M.D.\***  
**Sheila E. Ryan, M.D.** *(by invitation)*  
**Eleanor B. Sinton, M.D.** *(by invitation)*  
**David C. Kelsall, M.D.** *(by invitation)*
- 12:30 p.m. DISCUSSION
- 12:40 p.m. PHOTOGRAPH  
(All members remain for group photo)

PRESIDENT'S RECEPTION AND DINNER DANCE  
Reception 6:30 p.m. - Room: Century Ball Room II  
Banquet 7:30 p.m. - Room: Century Ball Room I

For Members, Officially Invited Guests,  
their Ladies or Escorts  
- Black Tie -

## **SUNDAY, APRIL 18, 1993**

REGISTRATION - 7:00 a.m.

BUSINESS MEETING - 12:30 p.m.

ROOM: The Beverly Hills Room (Restricted to Members)

Report of the:

- a. Board of Trustees of the Research Fund
- b. American National Standards Institute
- c. American Board of Otolaryngology
- d. Award of Merit Committee
- e. American College of Surgeons
- f. American Academy of Otolaryngology-Head and Neck Surgery

**\*Speaker**

## NOTES

Report of the Audit Committee

Report of the Nominating Committee

Reading of Communications

Unfinished Business

New Business

SCIENTIFIC PROGRAM - 1:00 p.m.

ROOM: The Beverly Hills Room (Open to Non-Members)

18. 1:00 p.m. USE OF PROLIFERATING CELL NUCLEAR ANTIGEN IN THE DETERMINATION OF GROWTH RATES IN ACOUSTIC NEUROMAS  
**Richard J. Wiet, M.D., F.A.C.S.\***  
**Stephen G. Ruby, M.D.** *(by invitation)*  
**George P. Bauer, M.D.** *(by invitation)*
19. 1:10 p.m. ANTIDROMIC STIMULATION OF THE GREATER SUPERFICIAL PETROSAL NERVE (GSPN) IN MIDDLE FOSSA SURGERY  
**Moises A. Arriaga, Major, USAF, M.D.\*** *(by invitation)*  
**Regis Haid, M.D.** *(by invitation)*  
**David Masel, M.D.** *(by invitation)*
20. 1:20 p.m. FACIAL NERVE TUMORS PRESENTING AS ACOUSTIC NEUROMAS  
**Sean O. McMenemy, M.D.\*** *(by invitation)*  
**Michael E. Glasscock, M.D.**  
**Lloyd B. Minor, M.D.** *(by invitation)*  
**Barry Strasnick, M.D.** *(by invitation)*  
**C. Gary Jackson, M.D.**

\*Speaker

## NOTES

21. 1:30 p.m. TRANSLABYRINTHINE APPROACH TO SKULL BASE TUMORS WITH HEARING PRESERVATION  
**Barry E. Hirsch, M.D., F.A.C.S.\***  
*(by invitation)*  
**Stephen P. Cass, M.D.** *(by invitation)*  
**Laligam Sekhar, M.D.** *(by invitation)*  
**Donald C. Wright, M.D.** *(by invitation)*
22. 1:40 p.m. VENOUS INFARCTION FOLLOWING TRANSLABYRINTHINE ACCESS TO THE CEREBELLOPONTINE ANGLE  
**John P. Leonetti, M.D.\*** *(by invitation)*  
**O. Howard Reichman, M.D.**  
*(by invitation)*  
**Seth J. Silberman, M.D.** *(by invitation)*
23. 1:50 p.m. EXCISION OF PETROCLIVAL TUMORS BY A TOTAL PETROSECTOMY APPROACH  
**Stephen P. Cass, M.D.\*** *(by invitation)*  
**Laligam N. Sekhar, M.D.** *(by invitation)*  
**Barry E. Hirsch, M.D.** *(by invitation)*  
**Donald C. Wright, M.D.** *(by invitation)*  
**Shlomo Pomeranz, M.D.** *(by invitation)*
- 2:00 p.m. DISCUSSION
- 2:10 p.m. INTRAOPERATIVE NEURAL MONITORING: WHEN IS IT HELPFUL, WHEN IS IT REQUIRED?  
 PANEL  
 Moderator - Robert K. Jackler, M.D.

*Panelists*

Derald E. Brackmann, M.D.  
 Barry E. Hirsch, M.D.  
 Jack M. Kartush, M.D.  
 John K. Niparko, M.D.  
 Samuel H. Selesnick, M.D.  
 Herbert Silverstein, M.D.

**\*Speaker**

## NOTES



- 3:00 p.m. DISCUSSION
- 3:10 p.m. INTERMISSION
24. 3:30 p.m. INTRAOPERATIVE MEASURES OF THE ELECTRICALLY EVOKED COMPOUND ACTION POTENTIAL  
**Bruce J. Gantz, M.D., F.A.C.S.\***  
**Carolyn J. Brown, Ph.D.** (*by invitation*)  
**Paul J. Abbas, Ph.D.** (*by invitation*)
25. 3:40 p.m. JUST NOTICEABLE DIFFERENCES FOR SYNTHESIZED SPEECH STIMULI IN COCHLEAR IMPLANT RECIPIENTS  
**Alan G. Micco, M.D.\*** (*by invitation*)  
**Tom Carrell, Ph.D.** (*by invitation*)  
**Nina Kraus, Ph.D.** (*by invitation*)  
**Dawn B. Koch, Ph.D.** (*by invitation*)  
**Anu Sharma, M.A.** (*by invitation*)  
**Richard J. Wiet, M.D.**
26. 3:50 p.m. COCHLEAR IMPLANT RELATED OSTEOGENESIS IN AN ANIMAL MODEL: FLUORESCENT LABELS  
**James E. Saunders, M.D.\***  
(*by invitation*)  
**David W. Molter, M.D.** (*by invitation*)  
**John T. McElveen, Jr., M.D.**  
(*by invitation*)
27. 4:00 p.m. ACOUSTIC REFLEX DECAY IN MULTI-CHANNEL COCHLEAR IMPLANT PATIENTS  
**Tracey G. Wellendorf, M.D.\***  
(*by invitation*)  
**Harold C. Pillsbury, M.D.**  
**Joseph W. Hall, Ph.D.** (*by invitation*)  
**John H. Grose, Ph.D.** (*by invitation*)  
**Tambrey Oettinger, M.Ed.**  
(*by invitation*)

**\*Speaker**

## NOTES

28. 4:10 p.m. AN UPDATE OF REPARATIVE GRANULOMA: A SURVEY OF THE AMERICAN OTOLOGICAL SOCIETY AND THE AMERICAN NEUROTOLOGICAL SOCIETY  
**Michael A. Seicshnaydre, M.D.\***  
*(by invitation)*  
**Aristides Sismanis, M.D., F.A.C.S.**  
**Gordon B. Hughes, M.D., F.A.C.S.**
29. 4:20 p.m. FATE OF ALCOHOL PRESERVED HOMOGRAFT OSSICLES  
**Roger E. Wehrs, M.D.\***
- 4:30 p.m. DISCUSSION
30. 4:40 p.m. ROLE OF AUTOIMMUNITY IN CONTRALATERAL DELAYED ENDOLYMPHATIC HYDROPS  
**Jeffery P. Harris, M.D., Ph.D.\***  
**David Aframian, M.D. (by invitation)**
31. 4:50 p.m. NEUROTOLOGIC MANIFESTATIONS OF HIV INFECTION – IMMUNOHISTOCHEMICAL AND EM STUDY  
**Dennis G. Pappas, Jr., M.D.\***  
**H. K. Chandra Sekhar, M.D.**  
*(by invitation)*  
**Dean E. Hillman, Ph.D. (by invitation)**  
**Jin Lim, B.S. (by invitation)**
- 5:00 p.m. Installation of New President:  
**Robert I. Kohut, M.D.**
- 5:10 p.m. ADJOURNMENT

**\*Speaker**

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1953 Julius Lempert, M.D.  
1954 Stacy Guild, Ph.D.  
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1959 Ernest Glen Wever, Ph.D.  
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1966 Gordon D. Hoople, M.D.  
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1970 Senator Joseph A. Sullivan, M.B.  
1971 Samuel Rosen, M.D.  
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1985 Wesley H. Bradley, M.D.  
1986 John J. Shea, M.D.  
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1989 Brian F. McCabe, M.D.  
1990 Eugene L. Derlacki, M.D.  
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1992 James L. Sheehy, M.D.

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1940-1945	Isidore S. Friesner
1945-1950	Gordon D. Hoople
1950-1955	John R. Lindsay
1955-1960	Lawrence R. Boies
1960-1965	James A. Moore
1965-1972	Wesley H. Bradley
1972-1977	G Dekle Taylor
1977-1982	Cary N Moon, Jr.
1982-1987	D Thane Cody
1987-1992	Robert I Kohut



**ABSTRACTS**

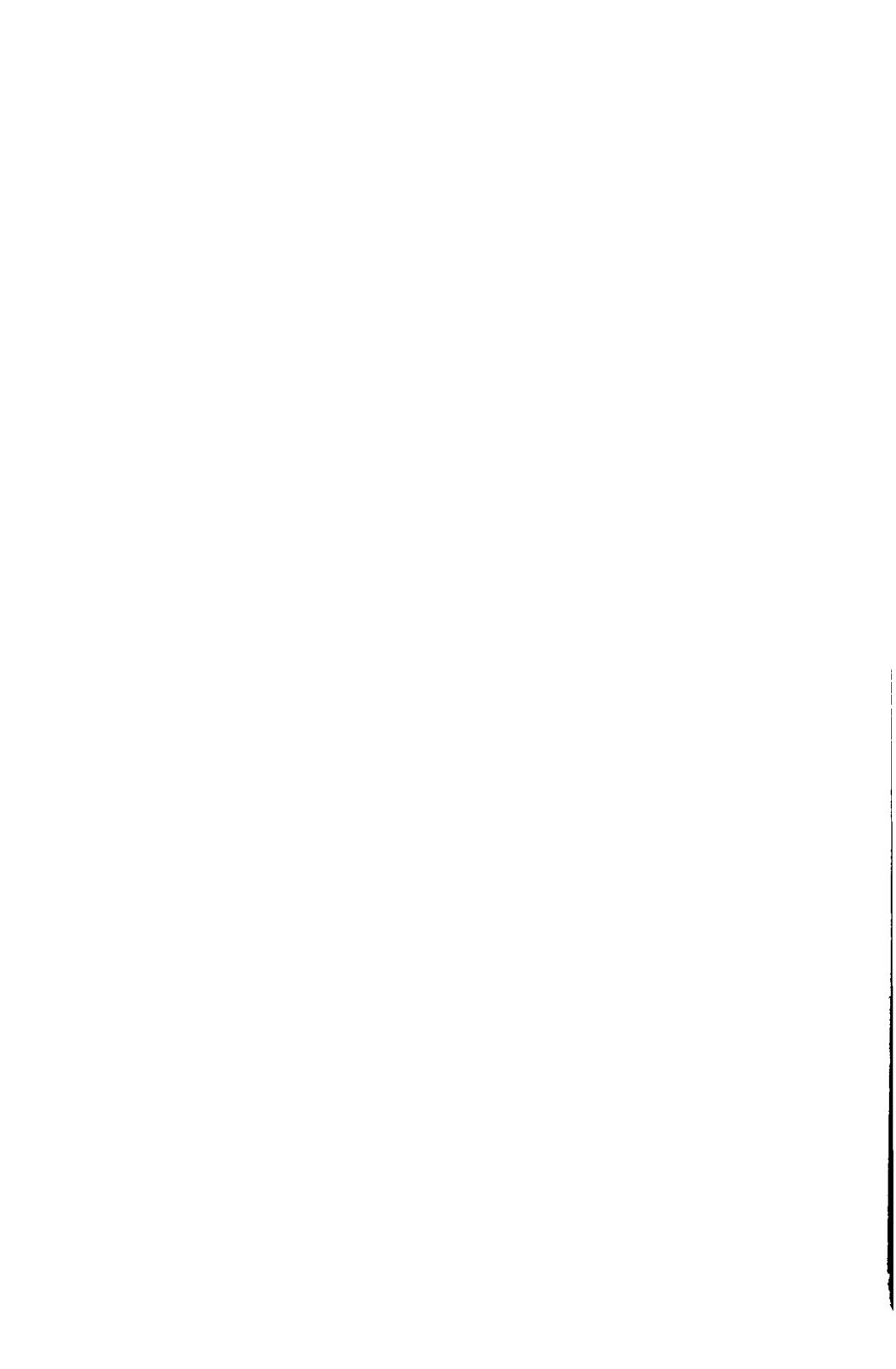
of the

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LOS ANGELES, CALIFORNIA**





## **ON GENETIC AND ENVIRONMENTAL FACTORS IN MENIERE'S DISEASE**

Andrew W. Morrison, Prof. James Mowbray, Prof. Robert Williamson

An association between Meniere's disease (MD) and one of the HLA-C genotypes has been identified. The present research is a progression from association to linkage study in families with more than one living member affected by unequivocal Meniere's disease. The first stage, the identification of a sufficient number of such families, the confirmation of the diagnosis and the collection of blood samples is progressing well. The second stage, the HLA typing within the families, concentrating initially on affected members is producing interesting results.

We have also shown an association between active phases of MD and the presence of circulating immune complexes, and of group specific protein of enteroviruses, VP1, in the serum, bound largely to the IGM antibody identified in the complexes. This investigation continues to confirm these results in cases of MD compared with control. The family studies include these searches since there may be variants of MD where a different genetic background predisposes to viral damage. C6 may be the site of a gene region involved in susceptibility to the disease.

To test the hypothesis that there maybe a genetic predisposition to MD, which may interact with other factors eg environmental such as viruses or immunogen, DNA samples from our family members will be studied with suitable probes or DNA markers utilizing clinical clues to study candidate regions of the human genome. The project will then be assessed prior to the final stage, the total genome search.

Objectives:

1. To ascertain families with more than one member suffering from Meniere's disease.
2. To identify a possible genetic predisposition to Meniere's disease.
3. To identify possible environmental triggers.