



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

PRESIDENT
Mansfield F.W. Smith, M.D.
2120 Forest Avenue
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Division of Otolaryngology, Box 3805
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The above Officers
and
William F. House, M.D.
Michael E. Glasscock, III, M.D.
Derald E. Brackmann, M.D.
Richard T. Miyamoto, M.D.

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**

NAMES AND ADDRESSES OF PRIMARY AUTHORS

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AWARD OF MERIT RECIPIENTS

1949 George M. Coates, M.D.
1951 Barry J. Anson, Ph.D.
Theodore H. Bast, Ph.D.
1952 Edmund P. Fowler, Sr., M.D.
1953 Julius Lempert, M.D.
1954 Stacy Guild, Ph.D.
1957 Georg von Bekesy, Ph.D.
1959 Ernest Glen Wever, Ph.D.
1960 Hallowell Davis, M.D.
1961 John R. Lindsay, M.D.

1962 William J. McNally, M.D.
1965 Anderson C. Hilding, M.D.
1966 Gordon D. Hoople, M.D.
1967 Merle Lawrence, Ph.D.
1968 Lawrence R. Boles, M.D.
1969 Sir Terence Cawthorne
1970 Senator Joseph A. Sullivan, M.B.
1971 Samuel Rosen, M.D.
1972 Howard P. House, M.D.
1973 Moses H. Lurie, M.D.

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1975 Catherine A. Smith, Ph.D.
1976 Harry Rosenwasser, M.D.
1977 Frank Lathrop, M.D.
1978 Juergen Tonndorf, M.D.
1979 John Bordley, M.D.
1980 Ben H. Senturia, M.D.
1981 J. Brown Farrier, M.D.
1982 William F. House, M.D.

1983 Victor Goodhill, M.D.
1984 Harold F. Schuknecht, M.D.
1985 Wesley H. Bradley, M.D.
1986 John J. Shea, M.D.
1987 Jack V. House, M.D.
1988 George D. Nager, M.D.
1989 Brian F. McCabe, M.D.
1990 Eugene L. Derlacki, M.D.
1991 Richard R. Gacek, M.D.
1992 James L. Sheehy, M.D.

1992-93 MEMBERSHIP LIST OF THE AMERICAN OTOLOGICAL SOCIETY

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- 1982 Alberti, Peter W. 259 Glencairn Avenue
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- 1970 Alford, Bobby R. 6501 Fannin Street
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- 1987 Althaus, Sean R. 3300 Webster Street
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- 1985 Applebaum, Edward 1855 West Taylor Street
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- 1980 Austin, David F. 2860 Channing Way, Suite 202
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- 1969 Bailey, Jr., H. A. Ted 1200 Medical Towers Building
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- 1991 Balkany, Thomas J. Univ. of Miami School of Medicine
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- 1983 Black, F. Owen 1040 N W. 22nd Avenue N010
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- 1977 Bluestone, Charles D. 125 DeSoto Street
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- 1982 Boles, Roger 400 Parnassus Avenue
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- 1978 Britton, B. Hill 629 Oak Street, Suite 201
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- 1988 Brookhouser, Patrick E. Boystown National Institute of
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- 1969 Buckingham, Richard A. 145 South Northwest Highway
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- 1987 Doyle, Patrick J. 4555 Magnolia Street
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- 1990 Farrior, III, Jay B. 509 Bay Street
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- 1991 Gulya, Julianna Georgetown Univ. Medical Ctr
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- 1987 Harker, Lee A. Boystown National
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ABSTRACTS

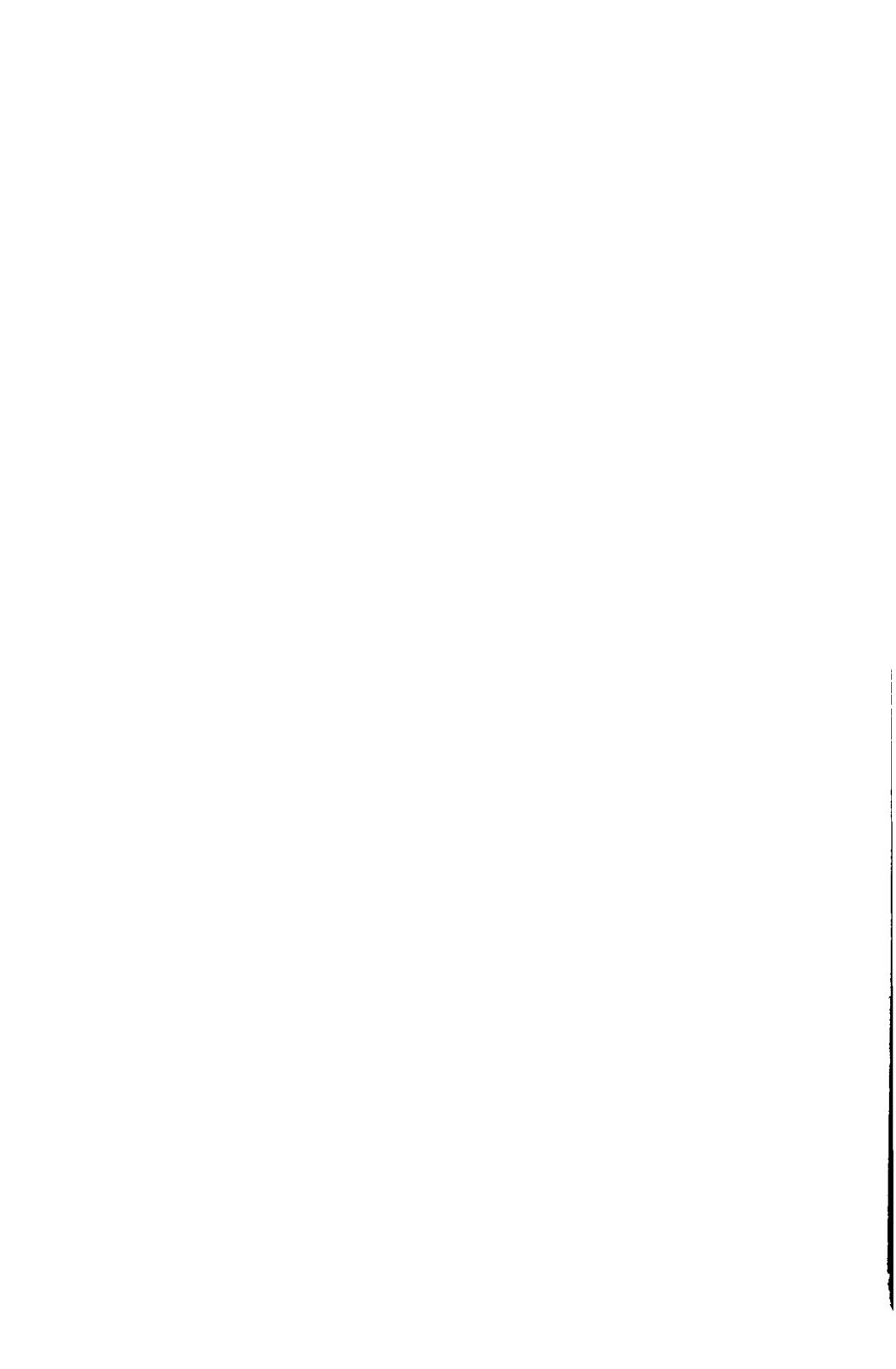
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**ONE HUNDRED TWENTY-SIXTH
ANNUAL MEETING**

AMERICAN OTOLOGICAL SOCIETY, INC.

**APRIL 17 - 18
1993**

**CENTURY PLAZA HOTEL & TOWER
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.