FRIDAY, APRIL 29, 2022

1:00 BUSINESS MEETING (New member introduction)
(Members Only)

1:30 SCIENTIFIC PROGRAM
(Open to registered Members and Non-members – Badge required for admittance)

1:30 WELCOME & OPENING REMARKS BY THE PRESIDENT
Marlan R. Hansen, MD

1:35 PRESIDENTIAL CITATIONS
Bruce J. Gantz, MD
Ronna Hertzano, MD, PhD
Matthew A. Howard, III, MD
Jay T. Rubinstein, MD, PhD
D. Bradley Welling, MD, PhD

1:45 INTRODUCTION OF GUEST OF HONOR
Marlan R. Hansen, MD

1:48 GUEST OF HONOR LECTURE
“How Does Hearing Loss Cause Dementia?”
Timothy D. Griffiths, FMedSci
Professor of Cognitive Neurology
Newcastle University Medical School
United Kingdom

2:18 INTRODUCTION OF ABSTRACTS
Moderator

2:20 Microneedles Facilitate Intracochlear Delivery Without Anatomic or Physiologic Injury
Stephen Leong, BA
Aykut Aksit, MS
Elizabeth S. Olson, PhD
Jeffrey W. Kysar, PhD
Anil K. Lalwani, MD

2:27 Risks of Noise-Induced Hearing Loss during Cochlear Implant Insertion Errors
Carolyn A. Chabuz, MD
Joseph Gonzalez, MD
Kenny Rodriguez, MD
John Peacock, PhD
Renee M. Banakis Hartl, MD
Stephen P. Cass, MD
Nathaniel T. Greene, PhD
2:34 Predictive Value of Trans-Impedance Matrix Measurements to Detect Electrode Tip Foldovers
Emily Kay-Rivest MD, MSc
Sean O. McMenomey, MD
Daniel Jethanamest, MD, MSc
William H. Shapiro, AuD
David R. Friedmann MD, MSc
Susan B. Waltzman PhD
J. Thomas Roland Jr. MD

2:41 Dynamic Behavior and Insertional Forces of a Pre-Curved Electrode Using the Pull-Back Technique in a Fresh Micro-Dissected Cochlea
Miriam R. Smetak, MD, MS
Katherine E. Riojas, PhD
Jack H. Noble, PhD
Robert F. Labadie, MD, PhD

2:48 AOS RESIDENT RESEARCH TRAVEL AWARD
Comparative Analysis of Robotics-Assisted and Manual Insertions of Cochlear Implant Electrode Arrays
Alexander D. Claussen, MD
Seiji B. Shibata, MD, PhD
Christopher R. Kaufmann, MD
Allan Henslee, PhD
Marlan R. Hansen, MD

2:55 DISCUSSION

3:00 BREAK WITH EXHIBITORS

3:30 INTRODUCTION OF ABSTRACTS
Moderator

3:32 Prevalence of Subclinical Hearing Loss in the United States
Jacqueline M. Dragon, BA
Alexandria L. Irace, BA
Maheer R. Grewal, BS
Justin S. Golub, MD, MS

3:39 Diabetes Mellitus and Sensorineural Hearing Loss: A TriNetX Network Study
Saima Wase, BS
Divya Balachander, BS
Claudia Cabrera, MD, MS
Sarah Mowry, MD

3:46 Video Analysis of Otologic Instrument Movement During Resident Mastoidectomies
Royal M. Pipaliya, BS
Mallory J. Raymond, MD
M. Andrew Rowley Jr., BS
Polly Jasper, BS
Ted A. Meyer, MD PhD

3:53 Immediate Improvement in Subjective Visual Vertical (SVV) and Disequilibrium Predicts Resolution of Benign Paroxysmal Positional Vertigo following Single Canalith Repositioning Maneuver
Christine C. Little, BA
4:00 DISCUSSION

4:05 PANEL
Cochlear Implants and Vestibular Schwannoma: Who to Implant and When?
Mia E. Miller, MD - Moderator
J. Thomas Roland Jr., MD
Jay T. Rubinstein, MD
Cameron C. Wick, MD
Erika A. Woodson, MD

5:05 ANNOUNCEMENT OF AOS/ANS POSTER AWARDS
Nancy M. Young, MD - AOS Education Director
Howard W. Francis, MD, MBA - ANS Education Director

5:10 CLOSING REMARKS/ADJOURNMENT

SATURDAY, APRIL 30, 2022

7:00 BUSINESS MEETING (Treasurer & Committee Reports)
(Members Only)

7:30 SCIENTIFIC PROGRAM
(Open to registered Members and Non-members – Badge required for admittance)

7:30 WELCOME & OPENING REMARKS BY THE PRESIDENT
Marlan R. Hansen, MD

7:33 INTRODUCTION OF ABSTRACTS
Moderator

7:35 Cochlear Implants: When Hardware Fails. Using Impedance as an Initial Indicator of Decline
Walleed H. Almutairi, MD
Justyn F.D. Pisa, AuD
Jordan B. Hochman, MD

7:42 Electrode Positioning after Cochlear Reimplantation with Same Device
Miriam R. Smetak, MD, MS
Shanik J. Fernando, MD
Robert T. Dwyer, AuD
Benoit M. Dawant, PhD
Jack H. Noble, PhD
Robert F. Labadie, MD, PhD

7:49 Differential Speech Perception in Quiet and Noise for Adults and Children Before and After Cochlear implantation for Unilateral Sensory Hearing Loss
Kevin D. Brown, MD, PhD
Lisa R. Park, AUD
7:56  **Speech Recognition Performance Differences Between Precurved and Straight Electrode Arrays**  
Rahul K. Sharma, MD  
Miriam R. Smetak, MD  
Ankita Patro, MD  
Nathan R. Lindquist, MD  
Elizabeth L. Perkins, MD  
Jourdan T. Holder, AuD, PhD  
Kareem Tawfik, MD

8:03  **Are Cochlear Implant Recipient Speech Performance Scores Consistent Across Different Tests?**  
Nicholas S. Andresen, MD  
Varun Vohra, BA  
Stephen P. Bowditch, AuD  
Nae-Yuh Wang, PhD MS  
Charles C. Della Santina, MD PhD  
Daniel Q. Sun, MD

8:10  **Initial Experience with Two Active Transcutaneous Bone Anchored Implants**  
Zachary G. Schwam, MD  
Samuel Oh, BA  
Kevin Wong, MD  
Caleb Fan, MD  
Enrique Perez MD, MBA  
Maura K. Cosetti, MD  
George B. Wanna, MD

8:17  **DISCUSSION**

8:22  **INTRODUCTION OF SAUMIL N. MERCHANT MEMORIAL LECTURE**  
Marlan R. Hansen, MD

8:25  **SAUMIL N. MERCHANT MEMORIAL LECTURE**  
“Precision Medicine for Hearing Loss”  
Richard JH Smith, MD  
Sterba Hearing Research Professor and Vice Chair - Department of Otolaryngology  
Director – The Molecular Otolaryngology and Renal Research Laboratories  
Director – Iowa Institute of Human Genetics  
Professor of Otolaryngology, Molecular Physiology & Biophysics, Pediatrics and Internal Medicine (Division of Nephrology)

9:05  **INTRODUCTION OF ABSTRACTS**  
Moderator

9:07  **AOS RESIDENT RESEARCH TRAVEL AWARD**  
Dynamic Molecular Markers of Otosclerosis in the Human Cochlea  
Sarah Hodge, MD  
Ivan A Lopez, PhD  
Hirooki Matsui, MD  
Gail Ishiyama MD
9:14 Impact of Modern Surgical Techniques on Rates of Sensorineural Hearing Loss and Revision Surgery after Stapedotomy

Nabil F. Darwich, MD, PhD
Alexandra E. Quimby, MD, MPH
Tiffany P. Hwa, MD
Stephen J. Eliades, MD, PhD
Jason A. Brant, MD
Douglas C. Bigelow, MD
Michael J. Ruckenstein, MD, MSc

9:21 National and International Rates of Stapedectomy Performed at Academic and Non-Academic Centers across the Department of Defense

Jason K. Adams, MD
John P. Marinelli, MD
Ronit E. Malka, MD
Carlos R. Esquivel, MD
Travis R. Newberry, MD
Samuel A. Spear, MD
Isaac D. Erbele, MD

9:28 Cochlear and Vestibular Dysfunction in the COVID-19 Era: A Population Based Study

Claudia I. Cabrera, MD, MS
Benjamin Johnson, MD
Maroun Semaan, MD
Alejandro Rivas, MD
Sarah Mowry, MD
Nauman Manzoor, MD

9:35 Standardization of Outcome Measures for Intratympanic Steroid Treatment for Idiopathic Sudden Sensorineural Hearing Loss

Neil K. Osafo, BS
David R. Friedland, MD, PhD
Michael S. Harris, MD
Jazzmyne Adams, MPH
Chasity Davis
Ling Tong, MA
Jake Luo, PhD

9:42 DISCUSSION

9:47 BREAK WITH EXHIBITORS

10:15 INTRODUCTION OF ABSTRACTS

Moderator

10:17 Changes and Trends in the Cochlear Implant Literature over a 40-year period: A Comprehensive Historical Literature Review

Jacob Kahane, MD
Anne Maxwell, MD
Moises Arriaga MD, MBA
10:24 **Association of Baseline Frailty Status and Age with Postoperative Complications following Cochlear Implantation: A National Inpatient Sample Study**  
Kyril L. Cole, MPH  
Alis J. Dicpinigaitis, BA  
Eric Babajanian, MD  
Steven A. Gordon MD MPH  
Neil S. Patel, MD  
Christian A. Bowers, MD  
Richard K. Gurgel, MD, MSCI

10:31 **Influence of Fractalkine Receptor CX3CR1 Deletion on Cochlear Hair Cell Survival and Macrophage Expression in Chronic Suppurative Otitis Media**  
Viktoria Schiel, MD, PhD  
Anping Xia, MD, PhD  
Jing Chen, MPH, DABT  
Brian Bacacao, BS  
Laurent A. Bekale, MD, PhD  
Peter L. Santa Maria, MD, PhD

10:38 **Evaluation of Safety and Efficacy of Povidone-Iodine Solution as an Ototopical Treatment in a Murine Model of Chronic Suppurative Otitis Media**  
Adam C. Kaufman, MD, PhD  
Brian Bacacao, BS  
Laurent Bekale, PhD  
Peter L. Santa Maria, MD, PhD

10:45 **Improvement of Eosinophilic Otitis Media with Targeted Biologic Therapy**  
C. Yoonhee Ryder, BS  
Mark A. Zacharek, MD  
Christopher M. Welch, MD, PhD

10:52 **DISCUSSION**

10:57 **PANEL**  
“New Developments in Inner Ear Inflammation”  
Soha N. Ghossaini, MD, Moderator  
Keiko Hirose, MD  
Michael Hoa, MD  
Alicia M. Quesnel, MD  
Andrea Vambutas, MD

11:57 **INTRODUCTION OF INCOMING PRESIDENT**  
Lawrence R. Lustig, MD

12:00 **CLOSING REMARKS/ADJOURNMENT**