

**ACADEMY RESEARCH CONFERENCE (ARC) 2024**  
**Advances in Implantable Devices**

**October 24, 2024**  
**10:00 am–3:30 pm ET**

**Morning Session**

10:00–10:15 am	<p><b>Welcome and Introductory Remarks</b></p> <p>Patricia Gaffney, AuD, MPH, President, American Academy of Audiology Professor, Nova Southeastern University</p> <p>Jamie Bogle, AuD, PhD, Principal Investigator, ARC Grant, Chair, Division of Audiology and Assistant Professor, Mayo Clinic College of Medicine Science</p>
10:15–10:30 am	<p><b>Landscape of Implantable Devices: An Overview</b></p> <p>René Gifford, PhD, ARC 2024 Chairperson, Fred H. Bess Chair in Audiology, Professor, and Director, Hearing and Speech Sciences, Implantables, Hearing Enhancement, and Amplification Research (I HEAR) Laboratory Vanderbilt University Medical Center</p>
10:30–11:00 am	<p><b>Bone Conduction and Middle Ear Implants:</b> From passive implants with active stimulation via percutaneous coupling to transcutaneous passive to transcutaneous active systems.</p> <p>Hillary Snapp, AuD, PhD, Chief of Audiology and Professor, University of Miami Ear Institute</p>
11:00–11:30 am	<p><b>Hearing Health: Our Role in Risk Prevention of Cognitive Decline</b></p> <p>Regina Presley, AuD, Director of Audiology, Presbyterian Board of Governors Cochlear Implant Center of Excellence @ GBMC</p>
11:30 am–12:00 pm	<p><b>Genetic Evaluation and Counseling for Pediatric Cochlear Implant Patients</b></p> <p>Aiden Eliot Shearer, MD, PhD, FACS, Pediatric Otolaryngologist, Boston Children’s Hospital, Assistant Professor, Harvard Medical School</p> <p>Shelby Redfield, MS, CGC, Genetic Counselor and Clinical Research Coordinator, Department of Otolaryngology and Communication Enhancement, Boston Children’s Hospital</p>
12:00–12:30 pm	<p><b>Panel Discussion of Speakers and Program Committee</b></p>
12:30–1:00 pm	<p><b>Break</b></p>

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## Afternoon Session

1:00–1:15 pm	<b>Welcome and Cochlear Implant Overview</b>  Michelle Hughes, PhD, ARC 2024 Program Committee, Professor and Director of the Cochlear Implant Research Lab, University of Nebraska, Lincoln
1:15–1:45 pm	<b>Hearing and Robotic-Assisted CI Surgery</b>  Marlan Hansen, MD, Professor of Neurosurgery, University of Iowa
1:45–2:15 pm	<b>Binaural Auditory Development and Implications for Determining Bilateral CI and Bimodal Candidacy: From Auditory Neuroscience to Audiology</b>  Melissa Polonenko, AuD, PhD, Assistant Professor in the Department of Speech-Language-Hearing Sciences, University of Minnesota
2:15–2:45 pm	<b>Totally Implantable Cochlear Implants: Where We Came From, Where We Are, and Where We're Going</b>  Heidi Nakajima, MD, PhD, Gudrun Larsen Eliassen and Nels Kristian Eliassen Associate Professor of Otolaryngology, Head and Neck Surgery, Harvard Medical School, Investigator, Eaton-Peabody Laboratories, Mass Eye and Ear
2:45–3:15 pm	<b>Panel Discussion of Afternoon Speakers and Program Committee</b>
3:15–3:30 pm	<b>Future Priorities</b>  Camille Dunn-Johnson, PhD, ARC 2024 Program Committee, Associate Professor and Director of the Cochlear Implant Program, University of Iowa