WAISMAN CENTER
UNIVERSITY OF WISCONSIN-MADISON

5th Annual

Waisman Center Day with the Experts: Cochlear Implants

Learn about the latest advances in research and clinical services and hear from a panel of experts—cochlear implant users and family members.

Saturday, June 4, 2016 | 9:00 a.m. - 12:15 p.m.

(Complimentary coffee & bagels at 8:30 a.m.)

9:00–9:15 a.m. **Welcome and Introduction to the Waisman Center**
Albee Messing, VMD, PhD, Professor of Neuropathology and Waisman Center Director

9:15–9:45 a.m. **From Sound to "Electric Hearing" – Improving Outcomes with Cochlear Implants**
Alan Kan, PhD, Assistant Scientist, Binaural Hearing & Speech Lab at the Waisman Center
The modern cochlear implant has been able to provide hearing to the profoundly deaf by adapting technologies developed for the transmission of speech from one speaker through a telephone line. However, the everyday world is a symphony of sounds, which creates unique challenges for the encoding of distinguishable sounds into electrical stimulation. Many of the cues that help normal hearing individuals distinguish different sounds within a noisy situation are not available with cochlear implants, even with bilateral implantation. This talk will cover how cochlear implants work and some of the latest research being conducted to improve outcomes with cochlear implants.

9:45–10:15 a.m. **Exploring the Relationship Between Memory, Attention and Hearing**
Sara Misurelli, PhD, Visiting Assistant Professor, Department of Communication Sciences & Disorders and Research Fellow, Binaural Hearing & Speech Laboratory at the Waisman Center
We have all experienced situations where we try to hear someone speaking while ignoring other noises around us. For people with hearing loss, navigating these "cocktail party" environments is an even bigger challenge. Research suggests that in these complex auditory environments, both the ability to hear (audition) and the ability to understand (cognition) play important roles. This presentation will focus on recent work that examines the relationship between auditory processing specific to cochlear implant users and cognitive abilities, such as attention and memory, in these complex listening situations.

BREAK

10:30–11:00 a.m. **Medical Aspects of Cochlear Implantation: From Initial Evaluation to Post-Operative Recovery**
Mark Pyle, MD, Professor, Division of Otolaryngology-Head and Neck Surgery, Academic Vice-Chair, Division of Otolaryngology
This presentation will focus on the cochlear implant process from a medical perspective starting with the patient's initial clinical evaluation with the physician. The details of testing to determine candidacy will be discussed and we will also review ancillary tests that are done prior to surgery. In addition to medical and audiologic criteria for implantation, we will also review pre-surgical imaging including CT and MRI. The practical aspects of surgery, hospital stay and post-operative recovery will be reviewed. Finally, the presentation will include some of the recent advances and how the process has changed over the past 20 years.

11:00 –11:30 a.m. **Question and answer session with a panel of clinicians**

11:30 a.m.–12:15 p.m. **Panel Discussion**—A panel of experts including cochlear implant users and family members.
Moderated by Ruth Litovsky, PhD, Professor, Department of Communication Sciences and Disorders, Department of Surgery and Waisman Center Investigator

Please pre-register at waisman.wisc.edu/events-experts-ci2016.htm

Sponsored by the **Department of Surgery, Division of Otolaryngology**, *and the* **Friends of the Waisman Center**
Hosted by the **Department of Communication Sciences and Disorders** *and the* **Waisman Center, University of Wisconsin-Madison**

University of Wisconsin Department of Surgery
DIVISION OF OTOLARYNGOLOGY-HEAD & NECK SURGERY
Remarkable People. Remarkable Results.

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For additional details, call 608.263.5837 or email palumbo@waisman.wisc.edu