

CIAP 2011 Speaker Program

Monday July 25, 8:30 am - 12:00 pm

Speech Perception, Language Development & Cognitive Issues (Moderator: Andrew Oxenham)

8:30 Litovsky / Rosen **WELCOME TO CIAP 2011**

- MonAM1: 8:45 Humes: Aging and Aided Speech Understanding: Contributions of "Higher-Level" Processing
MonAM2: 9:15 Lunner: On Cognitive Functioning and Effective Use of a Hearing Aid or Cochlear Implant
MonAM3: 9:45 Kishon-Rabin: Early Auditory Experience & Development of Speech & Language Development
10:15 BREAK (20 minutes)
MonAM5: 10:35 Gillis: Words and Linguistic Structures of 7-Year-Olds after Five Years of CI Experience
MonAM6: 11:05 Garadat: Selection of Sites of Stimulation Based on Temporal Modulation Sensitivity
MonAM7: 11:25 Donaldson: Static and Dynamic Cues; Vowel Identification by Cochlear Implant Users
12:00 LUNCH

Monday July 25, 7:00 pm – 9:35 pm

Plasticity (Moderator: Andrej Kral)

- MonPM1: 7:00 Scott: The cortical processing of speech: intelligibility, plasticity and cognitive factors
MonPM2: 7:30 Svirsky: Adaptation to Frequency Mismatch by Postlingually Deaf CI Users
MonPM3: 8:00 Galvin: Auditory Training in Cochlear Implant Patients: Go Easy or Go Hard?
8:30 BREAK (15 min)
MonPM4: 8:45 Reiss: Pitch Plasticity with Cochlear Implant Experience
MonPM5: 9:05 Fallon: Plasticity of the Primary Auditory Cortex

Tuesday July 26, 8:30 am – 12:00 pm

Binaural Physiology (Moderator: John Middlebrooks)

- TueAM1: 8:30 McAlpine: Do Bilateral Implant Users Access the Same Binaural Brain Circuits as NH Listeners?
TueAM2: 9:00 Culling: The Overlooked Benefit of Bilateral Cochlear Implantation.
TueAM3: 9:30 Litovsky: Bilateral Cochlear Implantation in Children
10:00 BREAK (20 minutes)
TueAM4: 10:20 Goupell: Interaural Decorrelation for Modulated Stimuli in Bilateral CI Users
TueAM5: 10:40 Seeber: Binaural Hearing in Reverberant Space with Cochlear Implants
TueAM6: 11:00 Kral: Cortical sensitivity to binaural cues in bilateral and unilateral congenital deafness
TueAM7: 11:30 Hartley: Investigating Benefits of Bilateral Cochlear Implants in an Animal Model
12:00 LUNCH

Tuesday July 26, 7:00 pm – 9:50 pm

Hair Cell development/regeneration/Survival & Plasticity (Moderator: James Fallon)

- TuePM1: 7:00 Sanes: Loss and Rescue of Cortical Inhibition Following Early Hearing Loss
TuePM2: 7:30 Lieberman: Permanent Cochlear Nerve Degeneration after Noise-Induced Hearing Loss
TuePM3: 8:00 Forge: Preventing Hair Cell Loss by Protection from Fatal Injury: A Brief Review of Strategies
TuePM4: 8:30 O'Leary: Steroids to Protect the Inner Ear During Cochlear Implant Surgery
TuePM5: 9:00 Jolly: Trends with CIs and Atraumaticity; Deep Electrode Insertion and Hearing Preservation
TuePM6: 9:30 Long: Neural Survival in Cochlear Implant Users

Wednesday July 27, 8:45 am -12:05

Implants Beyond the Cochlea & Other (Moderator: Johan Frijns)

- WedAM1: 8:45 Middlebrooks: Intraneural Stimulation for Auditory Prosthesis: Steps Toward Clinical Trials
WedAM2: 9:15 McKay: Temporal Information Processing in The Central Auditory System
WedAM3: 9:45 McDermott: Improved Sound Processing for Users of Auditory Implants
10:15 BREAK (20 minutes)
WedAM4: 10:35 Lim: Translating a New Double Shank Auditory Midbrain Implant (AMI) into Clinical Trials
WedAM5: 11:05 Richter: Infrared Neural Stimulation – A Vision for Cochlear Implants
WedAM6: 11:35 Shannon: New Developments in Auditory Brainstem Implants **12:05 LUNCH**

Wednesday July 27, 1:45 pm – 4:25 pm

Listening in Realistic Environment & Music (Moderator: Chris Brown)

WedPM1: **1:45** Rosen: Envelope and TFS: What's all the fuss?

WedPM2: **2:15** Heinz: Perceptual Saliency of Temporal Envelope and Fine Structure Cues

WedPM3: **2:45** Torppa: Effect of Musical Activities on Perception of Speech and Language Ability in Children
3:05 BREAK (20 minutes)

WedPM4: **3:25** Uchanski: Listening to Talkers and Musical Pitch

WedPM5: **3:55** Trehub: Speech and Music Perception by Child Implant Users

WEDNESDAY EVENING: SPECIAL BBQ DINNER AND DANCE NIGHT

Thursday July 28, 8:30 am - 12:00 pm

Signal processing (Moderator: Bob Carlyon)

ThuAM1: **8:30** Loizou: Channel Selection: A Panacea for the Interference Problem in Cochlear Implants

ThuAM2: **9:00** Wouters: Enhanced Temporal Coding Can Lead to Improved Sound Perception in CIs

ThuAM3: **9:30** Frijns: Neural Excitation Patterns of a Variety of Multipolar Electrode Configurations

ThuAM4: **10:00** Landsberger: Can Current Focusing Be Used to Improve Spectral Resolution?

10:20 BREAK (20 minutes)

ThuAM5: **10:40** Bierer: Characterizing the Status of the Electrode-Neuron Interface

ThuAM6: **11:00** Smith: Breaking Informational Bottlenecks in Auditory Prostheses

ThuAM7: **11:30** Litvak: Extending the Electrode Array Longitudinally Using Phantom Stimulation Protocols

12:00 LUNCH

Thursday July 28, 1:30 pm - 3 pm

Mentoring Session (Ruth Litovsky, Chair)

Thursday July 28, 7:00 pm - 9:30 pm

Pitch (Moderator: Gail Donaldson)

ThuPM1: **7:00** Chatterjee: Complex Pitch Patterns, Intonation & Lexical Tones: Adults and Children with CI's

ThuPM2: **7:30** Oxenham: Pitch Perception: Basic Mechanisms and Implications for Cochlear Implants

ThuPM3: **8:00** Macherey: Place and temporal pitch perception with asymmetric pulses

ThuPM4: **8:30** Vandali: Optimization of Rate-Pitch in Cochlear Implant Hearing

ThuPM5: **9:00** Bruce: Physiological Insights Into The Problem Of Temporal Coding In Cochlear Implants

Friday July 29, 8:30 am – 12:05 pm

Electroacoustic Stimulation and Hearing Aids (Moderator: Monita Chatterjee)

FriAM1: **8:30** Launer: Hearing Instrument Technology – What Can We Learn For CI Development?

FriAM2: **9:00** Edwards: A Cognitive Approach to Hearing Aid Design and Assessment

FriAM3: **9:30** Francart: Signal Processing for Combined Hearing Aid and Cochlear Implant Stimulation

9:50 BREAK (15 minutes)

FriAM4: **10:05** Green: Contralateral Residual Acoustic Hearing; Speech Perception in Cochlear Implant Users

FriAM5: **10:35** Brown: Enhancing the Benefits to Speech Perception of Electro-Acoustic Stimulation

FriAM6: **11:05** Vollmer: Contralateral Masking In Binaural-Bimodal Stimulation In The Central Auditory System

FriAM7: **11:35** Kleine-Punte: Speech Reception in Noise w/ Electric Stimulation in Single-Sided Deafness

12:05 End of Conference, closing remarks