

NEW IDEAS IN HEARING 2012: HOT TOPICS IN AUDIOLOGY

Programme summary

Monday 2nd of April

	08:50	Intro - Meddis R
Auditory deficits	09:00	Moore BCJ
	09:25	Plack C
	09:50	Tremblay K
	10:45	Füllgrabe C
	11:10	Festen J
	11:35	Baskent D
	13:30	Heinz M
	13:55	Bruce I
	14:20	Meddis R
Modelling and Physiology	15:15	Rubinstein J
	15:40	Micheyl C
	16:05	Shamma S
	17:00	Santurette S
	17:25	Sumner C
	18:05	Lopez Poveda E
	18:30	Gockel H

Tuesday 3rd of April

	09:00	Dreschler W
Hearing Aids	09:25	Kollmeier B
	09:50	Strelcyk O
	10:45	Kalluri S
	11:10	Stone M
	11:35	Edwards B
	13:30	McKay C
	13:55	Shannon RV
	14:20	Wouters J
Implants	15:15	Drennan W
	15:40	Dillier N
	16:05	Seeber B
	17:00	Boyle P
	17:25	Nie K
	17:50	McAlpine D

Wednesday 4th of April

	09:00	Abdala C
Development	09:25	Werner L
	09:50	Summerfield Q
	10:45	Horn D
	11:10	Deltenre P
	11:35	Nittrouer S

talks: 15min
questions: 10min

Programme details

Monday 2nd April

Session I: Auditory deficits

Chaired by: Trevor Agus

09:00 - 09:25 Brian C.J. Moore

“What is temporal fine structure good for?”

Department of Experimental Psychology, University of Cambridge, Cambridge, UK.

09:25 – 09:50 Chris Plack

“Effects of inner and outer hair cell dysfunction on cochlear gain and compression”

Human Communication & Deafness Division, School of Psychological Sciences, The University of Manchester, Manchester, UK.

09:50 - 10:15 Kelly Tremblay

“Hearing aids and brain: what's the connection?”

Department of Speech and Hearing Sciences, University of Washington, Seattle, USA.

10:15 – 10:45 -- Break --

10:45 - 11:10 Christian Füllgrade

“Age-related changes in auditory perception”

MRC - Institute of Hearing Research, Nottingham, UK.

11:10 - 11:35 Joost M. Festen

“Auditory and cognitive processing in speech recognition”

Department of ENT/Audiology, VU University Medical Center, Amsterdam, The Netherlands.

11:35 - 12:00 Deniz Baskent

“Two ways hearing impairment can interact with cognitive processing”

*Department of Otorhinolaryngology/Head and Neck Surgery, University Medical Center Groningen, Groningen, The Netherlands;
School of Behavioral and Cognitive Neuroscience, University of Groningen, Groningen, The Netherlands.*

Session II: Modelling and Physiology

Chaired by: Marcel Stimberg and Marc Rebillat

- 13:30 - 13:55 Mike Heinz "Physiological correlates of perceptual TFS deficits with sensorineural hearing loss"
Department of Speech, Language, and Hearing Sciences, Purdue University, West Lafayette, USA;
Weldon School of Biomedical Engineering, Purdue University, West Lafayette, USA.
- 13:55 - 14:20 Ian C. Bruce "Modeling changes in auditory nerve fiber excitability for acoustic and electric stimulation"
Department of Electrical and Computer Engineering, McMaster University, Hamilton, Canada.
- 14:20 - 14:45 Ray Meddis "Modelling the efferent contribution to hearing speech in noise"
Department of Psychology, University of Essex, Colchester, UK.
- 14:45 - 15:15 -- Break --
- 15:15 - 15:40 Jay T. Rubinstein "Biophysical simulation of responses to electrical stimulation"
Virginia Merrill Bloedel Hearing Research Center, Department of Otolaryngology-Head and Neck Surgery, University of Washington, Seattle, USA.
- 15:40 - 16:05 Christophe Micheyl "Revisiting the place-vs-time debate, from the ground up"
Department of Psychology, University of Minnesota, Minneapolis, USA.
- 16:05 - 16:30 Shihab Shamma "Role of coherence and rapid-plasticity in active perception of complex auditory scenes"
Neural Systems Laboratory, Department of Bioengineering, University of Maryland, Washington, USA.
- 16:30 - 17:00 -- Break --
- 17:00 - 17:25 Sebastien Santurette "How essential are place and temporal fine-structure cues for high-frequency complex pitch?"
Department of Electrical Engineering, Technical University of Denmark, Lyngby, Denmark.
- 17:25 - 17:50 Chris Sumner "Is mode-locking the new phase-locking? Complex temporal encoding of periodicity in cochlear nucleus"
MRC Institute of Hearing Research, Nottingham, UK.
- 17:50 - 18:05 -- Short break --
- 18:05 - 18:30 Enrique A. Lopez Poveda "Quantifying inner and outer hair cell loss in listeners with mild-to-moderate cochlear hearing loss"
Unidad de Audición Computacional y Psicoacústica, Instituto de Neurociencias de Castilla y León, Universidad de Salamanca, Salamanca, Spain.
- 18:30 - 18:55 Hedwig Gockel "Does the Frequency Following Response (FFR) reflect pitch?"
MRC Cognition and Brain Sciences Unit, Cambridge, UK.

Tuesday 3rd April

Session III: Hearing Aids

Chaired by: Tim Ives

- 09:00 - 09:25 Wouter Dreshler "Perceptual effects of noise reduction in hearing aids"
Academic Medical Center, KNO-Audiology, Amsterdam, The Netherlands.
- 09:25 - 09:50 Birger Kollmeier "Models for speech intelligibility in rooms and their consequences for hearing aid processing"
Medical Physics Section, Carl von Ossietzky-Universität Oldenburg, Oldenburg, Germany.

09:50 - 10:15	Olaf Strelcyk	“Bio-inspired hearing-aid design” <i>Starkey Hearing Research Center, Berkeley, USA.</i>
10:15 – 10:45	-- Break --	
10:45 - 11:10	Sridhar Kalluri	“Toward a laboratory measure of hearing-aid Outcome in real-world multi-talker environments” <i>Starkey Hearing Research Center, Berkeley, USA.</i>
11:10 - 11:35	Mike Stone	“ ‘Listening in the dips’: the dynamic depth and range achievable by the hearing impaired” <i>Department of Experimental Psychology, University of Cambridge, Cambridge, UK.</i>
11:35 - 12:00	Brent Edwards	“How hearing aid technology can affect cognitive function” <i>Starkey Hearing Research Center, Berkeley, USA.</i>

Session IV: Implants

Chaired by: Jonathan Laudanski

13:30 - 13:55	Collette McKay	“Temporal processing in CI, ABI and AMI users” <i>Audiology and Deafness Research Group, School of Psychological Sciences, University of Manchester, Manchester, UK.</i>
13:55 - 14:20	Robert V. Shannon	“New Results with Auditory Brainstem Implants” <i>House Ear Institute, Los Angeles, USA.</i>
14:20 - 14:45	Jan Wouters	“Enhanced temporal coding can lead to improved sound perception in cochlear implants” <i>ExpORL, Department of Neurosciences, Katholieke Universiteit Leuven, Leuven, Belgium.</i>
14:45 – 15:15	-- Break --	
15:15 - 15:40	Ward Drennan	"Perception of frequency-modulation patterns based on recovered-envelope cues for cochlear implant listeners" <i>V. M. Bloedel Hearing Research Center, Department of Otolaryngology, University of Washington, Seattle, USA.</i>
15:40 - 16:05	Norbert Dillier	“Neurophysiologically-based coding strategy for cochlear implants” <i>Laboratory of Experimental Audiology, ENT Department, University Hospital, Zurich, Switzerland.</i>
16:05 – 16:30	Bernhard Seeber	“Trading of temporal fine structure and envelope cues leads to robust localization in reverb” <i>MRC Institute of Hearing Research, Nottingham, UK.</i>
16:30 – 17:00	-- Break --	
17:00 - 17:25	Patrick Boyle	“AGC performance revealed by the STAR ² roving level speech test and the impact of speech rate” <i>Advanced Bionics, Cambridge, UK.</i>
17:25 - 17:50	Kaibao Nie	“Encoding harmonics to improve speech, music and mandarin tone perception with cochlear implants” <i>Department of Otolaryngology-Head & Neck Surgery, Department of Electrical Engineering, University of Washington, Seattle, USA.</i>
17:50 - 18:15	David McAlpine	“Making bilateral binaural” <i>Ear Institute, University of London, London, UK.</i>

Wednesday 4th April

Session V: Development

Chaired by: Laurianne Cabrera

09:00 - 09:25	Carolina Abdala	“Maturation of human cochlear function” <i>House Ear Institute, Los Angeles, USA.</i>
09:25 - 09:50	Lynne Werner	“Temporal aspects of infants' attention to sound” <i>Dept. of Speech & Hearing Sciences, University of Washington, Seattle, USA.</i>
09:50 - 10:15	Quentin Summerfield	“Spatio-temporal brain activity during multi-talker listening in younger and older adults” <i>Department of Psychology, The University of York, York, UK.</i>
10:15 – 10:45	-- Break --	
10:45 - 11:10	David Horn	“Spectral ripple inversion detection in infants” <i>Seattle Children's, Seattle, USA.</i>
11:10 - 11:35	Paul Deltenre	“The Frequency-Following Response: an ancient tool re-sharpened to the benefit of new ideas” <i>Faculty of Medicine, Université Libre de Bruxelles, Bruxelles, Belgium.</i>
11:50 - 12:15	Susan Nittrouer	“Developmental changes in perceptual attention and organization for speech: implications for cochlear implant design” <i>Otolaryngology - Head and Neck Surgery Ohio State University Medical School, Columbus, USA.</i>

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