



ISAAR 2011

Program as per 05 July 2011

Wednesday 24 August

08:00-10:00 *Registration and hanging of posters*

10:00-10:25 Torsten Dau: Welcome and introduction to the symposium

Session 1: Indicators of hearing impairment and measures of speech perception

10:25-11:00 Barbara Canlon:
Mechanisms underlying damage to the peripheral and central auditory pathway
and new strategies to protect against these disorders

11:00-11:35 Teresa Y. C Ching:
Audibility and speech intelligibility revisited: Implications for hearing
rehabilitation

11:35-12:10 Brian C. J. Moore:
The importance of temporal fine structure for the intelligibility of speech in
complex backgrounds

12:10-13:10 *Lunch*

13:10-13:45 Joshua G. W. Bernstein:
Controlling signal-to-noise ratio effects in the measurement of speech
intelligibility in fluctuating maskers

13:45-14:20 Thomas Brand:
Recognition rates and linguistic processing: Do we need new measures of
speech perception?

14:20-14:40 *Coffee break*

14:40-15:00 Inga Holube:
Speech intelligibility in fluctuating maskers

15:00-15:20 Iris Arweiler:
Speech intelligibility with binaurally linked hearing aids

15:20-15:40 Niklas Rönnerberg:
Testing listening effort for speech comprehension

15:40-16:10 *Coffee break*

16:10-16:30 Tobias Neher:
Auditory and cognitive contributions to hearing-impaired listeners' localization
and spatial speech recognition performance

16:30-16:50 Mary Florentine:
Measures of the ecological loudness of speech

16:50-17:10 Birgitta Larsby:
Working memory capacity and lexical access in speech recognition in noise

17:10-19:00 Poster session I

19:00-20:00 *Dinner*

20:00-22:00 *Drinks in the poster area*

Thursday 25 August**Session 2: Neural representation of complex sounds and speech in the auditory brain**

- 08:30-09:05 Bertrand Delgutte:
Neural mechanisms for hearing in everyday acoustic environments:
Reverberation and competing sound sources
- 09:05-09:40 Samira Anderson:
cABR – A neural probe of speech-in-noise processing
- 09:40-10:15 Jan Wouters:
Auditory steady state responses in cochlear implants
- 10:15-10:45 Coffee break*
- 10:45-11:20 Jonas Obleser:
From sound to meaning: Neural mechanisms of comprehension in degraded
speech
- 11:20-11:55 Milene Bonte:
Dynamic and task-dependent encoding of speech and voice in the auditory
cortex
- 12:00-13:00 Lunch*

Session 3: Models of speech processing and perception

- 13:00-13:35 Jont Allen:
Sources of consonant perceptual errors in normal and hearing-impaired ears
- 13:35-14:10 Richard M. Stern:
Applying physiologically-motivated models of auditory processing to automatic
speech recognition
- 14:10-14:45 Birger Kollmeier:
Modeling sensory and cognitive aspects of speech intelligibility in complex
listening environments for normal-hearing and hearing-impaired listeners
- 14:45-15:15 Coffee break*
- 15:15-15:35 Søren Jørgensen:
Predicting speech intelligibility in adverse conditions: Evaluation of the speech-
based envelope power spectrum model
- 15:35-15:55 Tobias S. Andersen:
Ordinal models of audio-visual speech perception
- 15:55-16:15 Stefan Stenfeldt:
A model for prediction of own voice alteration with hearing aids

16:30-18:30 Poster Session II

- 19:00-20:30 Dinner*
- 20:30-22:30 Bar*



Friday 26 August

Session 4: Recent concepts in hearing-instrument processing and fitting

- 08:30-09:05 Joachim Müller-Deile:
Procedures for fitting and evaluation of cochlear-implant speech processors
- 09:05-09:40 Chris Halpin:
Re-focusing on the clinical targets
- 09:40-10:15 Andreas Büchner:
Electric-acoustic stimulation in cochlear-implant subjects
- 10:15-10:45 Coffee break*
- 10:45-11:05 Stephan D. Ewert:
Model-based hearing-aid gain prescription rule
- 11:05-11:25 Zachary M. Smith:
Towards improved speech perception with cochlear implants: Increasing spectral resolution
- 11:25-11:45 Jorge Mejia:
The effect of a linked bilateral noise-reduction processing on speech-in-noise performance
- 11:45-12:05 Michael Fisher:
Adaptively setting the maximum output of a hearing aid with reference to speech: the effect on speech and noise perception
- 12:05-12:15 *Closing remarks*
- 12:15-13:30 Lunch*
- 14:00 Departure*