

Pre-conference programme

Sunday, June 9

- 09.00 – 16.00 Registration (Marmorfoajén) and pre-conference, Linköping Konsert & Kongress.
- 09.00 – 09.30 Technical/practical information for pre-conference speakers (Musikalen).
- 09.55 – 10.00 Welcome to CHSCOM2019 pre-conference: **Mary Rudner** (Musikalen).
- 10.00 – 12.00 Pre-conference session 1. Moderators: **Elisabeth Ingo, Andreea Micula and Erik Marsja**
- 10.00 – 10.20 The interactions between hearing aids, cognition, and listening effort in adult binaural hearing aid users: a systematic review. **Katrien Kestens**
- 10.20 – 10.40 How Hard is Too Hard? Determinants of Processing Effort as a Function of Age, Hearing Acuity, and Sentence Complexity. **Nicole D. Ayasse**
- 10.40 – 11.00 What insights into pupil size during listening do various analysis techniques provide and how sensitive are they to task demands and luminance? **Patrycja Ksiazek**
- 11.00 – 11.20 COFFEE BREAK (Galleri K)
- 11.20 – 11.40 Using Semantic and Morpho-Syntactic Context in Word. **Tami Harel**
- 11.40 – 12.00 Test-retest reliability of audiometric assessment in adults with cognitive impairment. **Kate McClannahan**
- 12.00 – 13.00 LUNCH (Verdefoajén)
- 13.00 – 16.00 Pre-conference session 2. Moderators: **Elisabeth Ingo, Andreea Micula and Erik Marsja**
- 13.00 – 13.20 On phonemic processing and working memory in electric hearing. **Sridhar Srinivasan**
- 13.20 – 13.40 Cognitive Effects of Stimulation Pulse Rate in Older Cochlear Implant Users. **Cecilia Di Nardi**
- 13.40 – 14.00 Association of Brain Cortical Thickness with Speech in Noise Test and Attention in Elderly Subjects. **Simón San Martín**

- 14.00 – 14.20 COFFEE BREAK (Galleri K)
- 14.20 – 14.40 Cingulate cortex atrophy is associated with cognitive impairment in patients with presbycusis and cochlear dysfunction.
Chama Belkhiria
- 14.40 – 15.00 Hearing loss and cortical atrophy in older adults with (or at risk for) dementia: How strong is the relationship? **Nathalie Giroud**
- 15.00 – 16.00 COFFEE BREAK (Marmorfoajén)

Conference programme

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- 09.00 – 16.00 Registration (Marmorfoajén) and pre-conference, Linköping Konsert & Kongress.
- 16.00 – 16.05 Welcome to CHSCOM2019: **Bengt Westerberg**, Main moderator and chair of the Swedish Institute for Disability Research (Crusellhallen).
- 16.05 – 16.20 CHSCOM: A Catalyst for Cognitive Hearing Science Research
Judy R. Dubno, Professor, Medical University of South Carolina
- 16.20 – 16.25 General information CHSCOM2019: **Bengt Westerberg**, Main moderator.
- 16.25 – 16.35 Introduction to Cognitive Hearing Science: **Jerker Rönnberg**, Chair of the scientific committee and Director of Linnaeus Centre HEAD.

Introductory keynotes

- 16.35 – 17.05 **Anu Sharma**. Neuroplasticity in Hearing Loss.
- 17.05 – 17.35 **Sandra Gordon-Salant**. The role of cognition in understanding clean, fast, and accented speech in real-world listening conditions.
- 18.00 – RECEPTION (Marmorfoajén)

Monday, June 10

07.30 – 08.30 Technical/practical information for speakers (Crusellhallen)

08.30 – 08.35 Welcome and general information: **Bengt Westerberg**,
Main moderator (Crusellhallen)

Theme: Cognition and communication under adverse conditions

Session moderator: **xx**

08.35 – 09.00 Keynote: **Barbara Shinn Cunningham**. How subclinical hearing loss can impact communicating in social setting.

09.00 – 09.20 Using Physiological Measures to Assess Distraction and Annoyance from Background Noise. **Alexander L. Francis**

09.20 – 09.40 Rapid time-locked lexical processing of attended but not of unattended continuous speech. **Christian Brodbeck**

09.40 – 10.00 Try harder! The influence of evaluative feedback on the pupil dilation response, saliva-cortisol, and saliva alpha-amylase levels during listening. **Adriana Zekveld**

10.00 – 10.30 COFFEE BREAK (Marmorfoajén)

10.30 – 10.50 The effect of monetary reward on listening effort as reflected by the pupil dilation response. **Thomas Koelewijn**

10.50 – 11.10 Quantifying inattentive deafness: Effects of cognitive load on pure-tone detection and just-noticeable differences. **Sven Mattys**

11.10 – 12.15 Poster session for posters with even numbers (Marmorfoajén)

12.15 – 13.15 LUNCH (Garden)

Session moderator: **xx**

13.15 – 13.35 Communication effort as an interactive system between interlocutors: the effect of hearing loss and amplification. **Gitte Keidser**

13.35 – 13.55 Speech intelligibility in realistic virtual sound environments. **Torsten Dau**

Theme: Brain Plasticity and development

Session moderator: **xx**

13.55 – 14.20 Keynote: **Andrej Kral**. Effective Connectivity Between Primary and Secondary Areas Depends on Sensory Experience.

14.20 – 14.50 COFFEE BREAK (Marmorfoajén)

- 14.50 – 15.10 Short Periods of Perinatal Acoustic Experience Change the Structure and Function of Auditory Cortex. **Stephen Lomber**
- 15.10 – 15.30 Brain reorganisation measured using functional near infrared spectroscopy can predict cochlear implant outcome. **Douglas Hartley**
- 15.30 – 17.00 Poster session for posters with even numbers (Marmorfoajén)
- 18.30 – SOCIAL ACTIVITY – DINNER (Marmorfoajén/Backstage)

Tuesday, June 11

- 07.30 – 08.30 Technical/practical information for speakers (Crusellhallen)
- 08.30 – 08.35 Welcome and general information: **Bengt Westerberg**,
Main moderator (Crusellhallen)
- Theme: Brain Plasticity and development**
Session moderator: **xx**
- 08.35 – 08.55 Cognitive contributions to understanding acoustically challenging speech. **Jonathan Peelle**
- 08.55 – 09.15 Objectively measuring speech intelligibility: impact of individual participant factors. **Tom Francart**
- 09.15 – 09.35 Listening and learning difficulties in children. **Dave Moore**
- 09.35 – 09.55 Over-representation of speech in older adults originates from early and late responses in auditory cortex. **Jonathan Z. Simon**
- 09.55 – 10.25 COFFEE BREAK (Marmorfoajén)
- 10.25 – 10.45 Selective and Distributed Attention to Speech: Depth of Processing and Individual Differences. **Elana Zion Golumbic**
- 10.45 – 11.10 Keynote: **Karen Emmorey**. The plasticity of the reading circuit in deaf adults.
- 11.10- – 12.15 Poster session for posters with odd numbers (Marmorfoajén)
- 12.15 – 13.15 LUNCH (Garden)

Theme: Translational cognitive hearing science

Session moderator: **xx**

- 13.15 – 13.40 Keynote: **Harvey Dillon**. Listening difficulties can be caused by deficits in auditory processing, speech processing, cognition and language.x
- 13.40 – 14.00 Measuring listening effort: pitfalls, pertinence & potential.
Helen Willis
- 14.00 – 14.20 A new patient-reported outcome measure of listening effort: Development and preliminary testing of the Listening Effort Questionnaire (LEQ-CI). **Sarah Hughes**
- 14.20 – 14.50 COFFEE BREAK (Marmorfoajén)
- 14.50 – 15.10 Exploring the self-regulatory behavior of elementary students with hearing loss in inclusive classrooms: Helping children & teachers.
Sheila Moodie
- 15.10 – 15.30 Practice Listening and Understanding Speech (PLUS): Two novel auditory-cognitive training programs for people with hearing loss.
Antje Heinrich
- 15.30 – 15.55 Keynote: **Simon Carlile**. Attention switching and multi-talker listening in normally hearing and hearing impaired listeners.
- 15.55 – 17.15 Poster session for posters with odd numbers (Marmorfoajén)
- 18.30 – 19.00 Refreshments (Garden)
- 19.00 CONFERENCE DINNER – ENTERTAINMENT (Garden)

Wednesday, June 12

07.30 – 08.30 Technical/practical information for speakers (Crusellhallen).

08.30 – 08.35 Welcome and general information: **Bengt Westerberg**,
Main moderator (Crusellhallen).

Theme: Hearing loss, cognition, aging and dementia

Session moderator: **xx**

08.35 – 09.00 Keynote: **Natalie Phillips**. Hearing, cognition, and brain structure:
Initial findings from the COMPASS-ND study.

09.00 – 09.20 Working memory for signs with poor visual resolution.
Mary Rudner

09.20 – 09.40 Hearing and vision impairment and mental well-being in older age.
Piers Dawes

09.40 – 10.00 The relationship between age-related hearing loss, working
memory and cognition **Stephanie Rosemann**

10.00 – 10.30 COFFEE BREAK (Marmorfoajén)

10.30 – 10.50 The Melody and Timing of Speech: How younger and older adults
use sentence prosody to balance comprehension and effort.
Art Wingfield

10.50 – 11.10 Auditory-Cognitive Links and Social Psychological Factors in Aging
Well. **Kathy Pichora-Fuller**

11.10 – 11.30 The impact of aging and hearing loss on the production and per-
ception of clear speech adaptations in challenging communicative
conditions. **Valerie Hazan**

11.30 – 11.55 Keynote: **Frank Lin**. Hearing loss, aging, and dementia – from
epidemiologic insights to the ACHIEVE trial.

11.55 – 12.15 Thanks and summary: **Bengt Westerberg, Jerker Rönnerberg and
Anders Fridberger**

12.15 LUNCH-TO-GO (Marmorfoajén)