

# OVERHEAR: Real-world assessment of hearing aids and listening behaviour.

Friday October 6th – Saturday October 7th  
UCL Ear Institute and the PAMELA facility, London

**FRIDAY: UCL Ear Institute - 332 Grays Inn Rd, London WC1X 8EE**

## Welcome and Introduction

10:00 Owen Brimijoin

“The importance of the compatibility of devices and interventions with natural behaviour”

## Theme 1: Listening behaviour and Communication Ecology

10:10 Alan Archer-Boyd

"Head movements during conversation in different acoustic environments"

10:30 Ian Wiggins, SC Rowland, and Doug Hartley

“Brain activity during effortful listening in naturalistic scenes”

10:50 Volker Hohmann and Giso Grimm

"Active motion behaviour in complex listening environments"

11:10 William Whitmer

“What thrilling headgear can tell us about natural conversations in noise”

**11:30 Tea/Coffee break (20 minutes)**

## Theme 2: Beneficial behaviours and interventions

11:50 Deborah Vickers

"Assessing real world speech perception in the classroom for young children"

12:10 John Culling and Jacques Grange

"Optimal head orientation of hearing-impaired listeners in noisy environments"

12:30 Anne Schilder

“Hearing loss and hearing aids: what matters to patients?”

12:50 Sergi Costafreda Gonzalez

“What support do people with cognitive impairment need to use hearing aids?”

**13:10 Lunch (1 hour)**

### Theme 3: Multimodal Factors

14:10 Jennifer Bizley

“How does seeing improve listening?”

14:30 Valerie Hazan and Outi Tuomainen

“Effects of aging on speech production and speaker intelligibility”

14:50 Theo Goverts and Steve Colburn

“Binaural acoustic recordings from a number of complex, multi-source environments”

15:10 Tobias Busch, Filiep Vanpoucke, Margreet Langereis, Anneke Vermeulen, and Astrid van Wieringen

“Using automatic data logging to investigate the auditory environment of children with cochlear implants”

**15:30 Tea/Coffee break (20 minutes)**

### Theme 4: Evaluating Hardware

15:50 Niels Henrik Pontoppidan

“Hearing aids and listening in complex environments: intents, attention, behaviour, and processing”

16:10 Eleftheria Georganti

“Auditory Scene Sensing & Spatial Perception for Hearing Aid Applications”

16:30 Karolina Smeds and Josefina Larsson

“Hearing-instrument feature evaluation in the laboratory and in real life”

**16:50 First Day Closing comments**

**17:00 Drinks and canapes reception**

## SATURDAY: PAMELA– Unit 1, Bush Ind. Estate, London N19 5UN

9:00 – 10:00 – Coffee, hang posters and set up demos

### Poster Session and Cocktail Party

10:00 – Poster Session (throughout)

Axel Ahrens Torsten Dau, and Marton Marschall

Speech intelligibility and perceived width of sound sources in simulated anechoic and reverberant environments

Rhiannon Brook, Michael Akeroyd, Owen Brimijoin, Padraig Kitterick and Johanna Barry

Speech Localisation in Noise: A Developmental Perspective

Octave Etard and Tobias Reichenbach

EEG-measured correlates of comprehension in speech-in-noise listening

Antonio Elia Forte, Octave Etard, Tobias Reichenbach

Complex auditory-brainstem response to the fundamental frequency of continuous natural speech

Lorna Halliday, Axelle Calcus, & Stuart Rosen

Aided Sensitivity to Temporal Fine Structure Predicts Language Outcomes in Children with Mild to Moderate Sensorineural Hearing Loss

Maartje Hendrikse, Gerard Llorach, Giso Grimm and Volker Hohmann

Measuring realistic head and eye movement in the lab for the evaluation of hearing aids

Ulrik Kowalk, Sven Kissner, Petra von Gablenz, Inga Holube, and Joerg Bitzer

An improved privacy-aware system for objective and subjective ecological momentary assessment

Gerard Llorach, Maartje Hendrikse, Giso Grimm and Volker Hohmann

Comparison of Head and Gaze Behaviour in a Multi-Talker Listening Task with a Head-Mounted Display and Cylindrical Screen

Paul Reinhart, Pavel Zahorik, and Pamela Souza

The relationship between hearing aid compression and working memory under realistic reverberant conditions

Alan Sanderson, Carl Verschuur, Tracey Newman, Edward Rogers

Cochlear Implant Electrode Impedance: A biomarker of localised tissue changes

Laurent Simon, Ruksana Giurda, Eleftheria Georganti, Ralph-Peter Derleth, Hannes Wüthrich, and Norbert Dillier

Evaluation of hearing instruments in 3-D complex environments.

Terrin Tamati

The Perception of Foreign-Accented Speech by Cochlear Implant Users

11:00 – The actual cocktail\* party (Group 1)\*\* - PAMELA's Virtual Restaurant

11:15 – The actual cocktail party (Group 2) - PAMELA's Virtual Restaurant

11:30 – The actual cocktail party (Group 3) - PAMELA's Virtual Restaurant

11:45 – The actual cocktail party (Group 4) - PAMELA's Virtual Restaurant

12:00 – The actual cocktail party (Group 5) - PAMELA's Virtual Restaurant

\*This will probably be coffee. Sorry.

\*\*Attendees will be broken into groups based on badge symbols, will take part in a 'cocktail party' experiment.

12:30 – Lunch and morning data analysis

13:30 – Final Presentation showing what data can be gleaned from a virtual restaurant simulation.

**14:00 – Closing Comments / Conference Ends**

## Attendees

|                       |                              |                         |
|-----------------------|------------------------------|-------------------------|
| Ahrens, Axel          | Grange, Jacques              | Simon, Laurent          |
| Akeroyd, Michael      | Green, Tim                   | Smeds, Karolina         |
| Archer-Boyd, Alan     | Greenberg, David             | Sørensen, Anna Josefine |
| Bamiou, Doris-Eva     | Grimm, Giso                  | Straus, Jean            |
| Barker, Tom           | Hall, Amy                    | Stone, Michael          |
| Berry, Molly          | Halliday, Lorna              | Tamati, Terrin          |
| Bizley, Jennifer      | Hallybone, Jack              | Toumainen, Outi         |
| Brimijoin, W. Owen    | Harrett, Felicity            | Tyler, Nick             |
| Brook, Rhiannon       | Hendrikse, Maartje           | Urry, Emily             |
| Busch, Tobias         | Hohmann, Volker              | Vickers, Deborah        |
| Cho, Youna            | Koifman, Shiran              | Wareing, Bev            |
| Colburn, Steven       | Kowalk, Ulrik                | Whitmer, William        |
| Culling, John         | Larsson, Josefina            | Wiggins, Ian            |
| de Kerangal, Mathilde | Latzel, Matthias             | Zenke, Katharina        |
| Derleth, Ralph Peter  | Llorach, Gerard Tó           | Zhao, Sijia             |
| Dillier, Norbert      | Mamel, Frederic              |                         |
| Dritsakis, Giorgos    | Manka, Maciej                |                         |
| Ellis, Rachel         | Moore, Brian                 |                         |
| Emery, Terry          | Nauzer, Azeez                |                         |
| Etard, Octave         | Paulus, Maximillian          |                         |
| Exenberger, Anna      | Perugia, Emanuele            |                         |
| Forte, Antonio Elia   | Picinali, Lorenzo            |                         |
| Gardner-Medwin, Tony  | Pontoppidan, Niels<br>Henrik |                         |
| Geissler, Gunnar      | Reichenbach, Tobias          |                         |
| Georganti, Eleftheria | Reinhart, Paul               |                         |
| Goehring, Tobias      | Rosen, Stuart                |                         |
| Gonzales, Sergi       | Schilder, Anne               |                         |
| Costafreda            | Semeraro, Hannah             |                         |
| Goverts, Theo         |                              |                         |



