



# Cluster of Excellence Hearing4all International Symposium 2020

Date	Thursday, 05.11.2020 – Friday, 06.11.2020
Venue	Online Meeting
Contact	Jennifer Köllner, University of Oldenburg, <a href="mailto:gst@hearing4all.de">gst@hearing4all.de</a>

Pre-recorded teasers for the poster presentations will be online throughout the conference.

## Thursday, 05.11.2020 11:00 – 17:50

Time		Chair
11:00 – 11:15	Welcome and Introduction	Kollmeier Lenarz
<b>11:15 – 14:30</b>	<b>Research Thread I: Auditory processing deficits throughout the lifespan</b>	<b>Thiel Kral Klump</b>
11:15 – 11:45	<b>Jean-Luc Puel</b> <i>Montpellier, France</i> <b>Toward new diagnostic tools</b>	
11:45 – 12:00	Coffee Break	
12:00 – 12:45	<b>Overview and Highlights from Research Thread I</b>	Thiel
	<b>Go Ashida</b> <i>University of Oldenburg</i> <b>Physiological modeling of binaural circuitry in the brain: simulating age-related changes and perception</b>	
	<b>Amarins Heeringa</b> <i>University of Oldenburg</i> <b>Gerbil discrimination of speech-like sounds in behavior and auditory-nerve activity</b>	
12:45 – 13:45	Lunch Break / Poster Preview	
13:45 – 14:00	<b>Dorothe Poggel / Mark Pottek</b> Joint Research Academy and the H4A & HWK Fellowship	
14:00 – 14:30	<b>Yael Henkin</b> <i>Tel Aviv, Israel</i> <b>Lessons learned on the effects of increasing age and habilitated hearing loss on cortical binaural speech processing</b>	
14:30 – 14:45	Coffee Break	
<b>14:45 – 16:50</b>	<b>Research Thread II: IT-based diagnostics and rehabilitation</b>	<b>Büchner Kollmeier Doclo</b>
14:45 – 15:15	<b>Ian Bruce</b> <i>Hamilton, Ontario, Canada</i> <b>Insights from computational physiological models into optimizing hearing aid amplification</b>	
15:20 – 16:05	<b>Overview and Highlights from Research Thread II</b>	Büchner

	<b>Simon Doclo</b> <i>University of Oldenburg</i> <b>Acoustic Transparency in Hearables - Technical and Perceptual Sound Quality Evaluation</b>	
	<b>Benjamin Krüger</b> <i>Medizinische Hochschule Hannover</i> <b>Individualized phantom stimulation for cochlear implant users with low frequency acoustic residual hearing</b>	
	<b>David Hülsmeier</b> <i>University of Oldenburg</i> <b>Auditory-model-based aided patient performance prediction</b>	
16:05 – 16:20	Coffee Break	
16:20 – 16:50	<b>Jacques Kinsbergen</b> <i>Wevelgem, Belgium</i> <b>The consumerization of hearing technology</b>	
16:55 – 17:40	<b>Poster Session: Research Threads I and II</b>	
	Discussion with the poster authors in up to 6 parallel sessions	
17:40 – 17:50	<b>Closing of Day 1</b>	Kollmeier Lenarz

**Friday, 06.11.2020 09:00 – 17:00**

09:00 – 09:05	Welcome (Kollmeier)	
09:05– 10:55	<b>Poster Session: All Research Threads</b>	
	Discussion with the poster authors in up to 6 parallel sessions	
11:00 – 13:40	<b>Research Thread III: Auditory precision medicine: research-based novel intervention methods</b>	<b>Lenarz Kollmeier Behrens</b>
11:00 – 11:30	<b>Emmanuel Mylanus</b> <i>Nijmegen, Netherlands</i> <b>Variability in performance with cochlear implants in adults; our search for answers</b>	
11:35 – 12:20	<b>Overview and Highlights from Research Thread III</b>	Lenarz
	<b>Geraldine Zuniga</b> <i>Medizinische Hochschule Hannover</i> <b>Cochlea Hydrodrive: A tool for soft electrode insertion</b>	
	<b>Theodor Doll</b> <i>Medizinische Hochschule Hannover and Fraunhofer ITEM, Hannover</i> <b>Biodegradable inflammation sensor for a cochlear implant based on an MIP coating</b>	
	<b>Verena Scheper</b> <i>Medizinische Hochschule Hannover</i> <b>Towards a gapless neuron electrode interface in cochlear implants</b>	
12:20 – 13:10	Lunch Break / Poster Preview	

13:10 – 13:40	<b>Gerald Urban</b> <i>Freiburg, Germany</i> <b>Longevity of auditory implants: Can we improve long term stability of functional implants by sensor and interface control?</b>	
13:40 – 13:55	Coffee Break	
<b>13:55 – 16:00</b>	<b>Research Thread IV:  The Hearing Device of the future</b>	<b>Hohmann  Blume  Büchner</b>
13:55 – 14:25	<b>Shelly Chadha</b> <i>Geneva, Switzerland</i> <b>Hearing care for all: inventing the future</b>	
14:30 – 15:15	<b>Overview and Highlights from Research Thread IV</b>	Hohmann
	<b>Hendrik Kayser</b> <i>University of Oldenburg</i> <b>Hearing research in the wild: development of portable research platforms for advanced hearing aid processing</b>	
	<b>Sarah Blum</b> <i>University of Oldenburg</i> <b>Online Artifact Correction in Android Brain-Computer Interface Applications</b>	
	<b>Marc-Nils Wahalla</b> <i>Leibniz Universität Hannover</i> <b>CereBridge: An Efficient, FPGA-based Real-Time Processing Platform for True Mobile Brain-Computer Interface</b>	
15:15 – 15:30	Coffee Break	
15:30 – 16:00	<b>Jens Benndorf</b> <i>Garbsen, Germany</i> <b>Flexible and high-level programmable System-on-Chip hearing aid design in 22nm FDX technology with a ultra-low power budget</b>	
<b>16:05 – 16:50</b>	<b>Poster Session: Research Threads III and IV</b>	
	Discussion with the poster authors in up to 6 parallel sessions	
16:50 – 17:00	<b>Farewell and closing remarks</b>	Kollmeier Lenarz
<b>17:00</b>	<b>End of Official Part of the Symposium</b>	
17:15 – 18:15	Scientific Advisory Board Meeting (internal)	
18:15 – 19:00	Cluster Board Meeting (internal)	