

PODIUM PROGRAM	
Sunday 9 July	
15:00-22:00	Registration
18:00-19:00	Dinner
19:00-00:00	Welcome Reception
Monday 10 July	
07:00	Breakfast Opens
08:15-08:30	Welcome and introductions / code of conduct policy
Session 1a: Combining information across ears	
08:30-09:00	P1: Auditory skills of children with single-sided deafness and a cochlear implant. Tine Arras , Birgit Philips, Christian Desloovere, Jan Wouters, Astrid van Wieringen
09:00-09:15	P2: Objective measures of binaural processing based on cortical auditory evoked potentials. Yibo Fan , Rene Gifford
09:15-09:30	P3: Speech perception and sound localization ability in CI subjects with electric-acoustic stimulation and contralateral normal hearing. Tobias Weissgerber , Monika Koertje, Timo Stoever, Uwe Baumann
09:30-10:00	P4: Asymmetric hearing impacts binaural hearing in children who use bimodal devices. Melissa Polonenko , Karen Gordon
10:00-10:30	Break
Session 1b: Combining information across ears	
10:30-11:00	P5: Spatial hearing with mismatched information across the ears in bilateral cochlear implant listeners. Ben Williges , Noah Havers, Iwan Roberts, Nicola Hatton, Manohar Bance, Deborah Vickers
11:00-11:15	P6: Sensitivity to envelope and pulse timing interaural time differences in prosthetic hearing. Shiyi Fang , Fei Peng, Bruno Castellaro, Muhammad Zeeshan, Nicole Rosskothén-Kuhl, Jan Schnupp
11:15-11:30	P7: Finding the "best place" to deliver binaural cues to maximize spatial-hearing benefits when fitting bilateral cochlear implant users with a "mixed rate" strategy. Agudemu Borjigin , Stephen R. Dennison, Tanvi Thakkar, Alan Kan, Ruth Y. Litovsky
11:30-11:45	P8: Synergy of rate-pitch and interaural-time-difference cues for voluntary stream segregation in bilateral cochlear-implant listeners. Martin Lindenbeck , Lisa Frohmann, John Middlebrooks, Bernhard Laback
11:45-12:00	P9: Tinnitus is associated with increased cross-modal neural plasticity in single-sided deafness cochlear implant users. Mina Stojanovic , Joseph Chen, Trung Le, Vincent Lin, Andrew Dimitrijevic

12:00-13:00	Lunch
16:00-18:00	Poster Viewing
18:00-19:00	Dinner
Session 2a: Data driven and computational modeling approaches	
19:00-19:30	P10: New models of human hearing via machine learning. Josh McDermott
19:30-19:45	P11: Deep learning for speech enhancement with cochlear implants: joint compensation of noise and reverberation with one or more microphones. Clement Gaultier, Tobias Goehring
19:45-20:00	P12: The TEMPORAL project: optimizing speech coding strategies by using models. Jacob de Nobel, Thomas Baeck, Jeroen Briaire, Anna Kononova, Johan Frijns, Savine Martens
20:00-20:15	Break
Session 2b: Data driven and computational modelling approaches	
20:15-20:45	P13: How models serve as physical and digital twins to help us understand the cochlear-implant neural interface. Manohar Bance, Iwan Roberts, Tim Brochier, Chen Jiang, George Malliaras, Filip Hrciriik, Paul Charlesworth, Sarantos Mantzagriotis, Ilkem Sevgili, Chloe Swords, Botian Huang, Robert Carlyon, Deborah Vickers, Simone de Rijk
20:45-21:00	P14: Cochlear implant electrical impedance tomography Tania Hanekom, Friedemarie Kuschke
21:00-00:00	Poster Viewing and Socializing

Tuesday 11 July	
07:00	Breakfast Opens
Session 3a: Neural function	
08:30-09:00	P15: Assessing neural health with inter-phase gap measurements. Dyan Ramekers, Stefan Strahl, Henk Vink, Huib Versnel
09:00-09:15	P16: Polarity dependent excitation profiles with cochlear implant stimulation: relation to neuro-anatomy and implications for biphasic stimulation. Peter Baumhoff, Wiebke Konerding, Andrej Kral
09:15-09:30	P17: Model predictions of the effects of spiral ganglion neuron loss and axonal demyelination on ECAP refractory recovery and neural synchrony metrics. Ian Bruce, Jeffrey Skidmore, Shuman He
09:30-10:00	P18: The effects of neural adaptation in cochlear implant listeners. Miriam Marrufo-Perez, Deborah Vickers, Enrique Lopez-Poveda
10:00-10:30	Break

Session 3b: Memorial for Ning Zhou	
10:30-10:40	P19: Remembering Ning Zhou, scientist, colleague, and friend. Bryan Pfungst
10:40-10:52	P20: Ning's Contributions to Mandarin Tone Recognition Research with Cochlear Implants. Xin Luo
10:52-11:04	P21: Perception-production links in lexical tones and prosodic expression. Monita Chatterjee
11:04-11:16	P22: Translating markers of cochlear health from animals to humans. Kara Schwartz-Leyzac, Deborah Colesa, Bryan Pfungst
11:16-11:28	P23: An international experiment for Ning: exploring the relationship between multi-pulse integration and spatial selectivity in cochlear implant users. Robert Carlyon, Julie Arenberg, Andrew Oxenham, Heather Kreft, Francois Guerit, Charles Hem, John Deeks
11:28-11:40	P24: Clinical implications of sensitivity to pulse phase duration in cochlear implants. Ning Zhou, Zhen Zhu, Lixue Dong, David Bakhos, Bradford Backus, Manuel Segovia Martinez, David Landsberger, John Galvin
11:40-11:50	P25: Memories of my five years in Dr. Zhou's lab: a tribute to my mentor and friend Ning Zhou. Lixue Dong
11:50-12:00	P26: Perspectives from research participants. Recordings from Former Research Subjects
12:00-13:00	Lunch
13:30-16:00 Industry and regulatory presentations	
13:30-14:00	Advanced Bionics: "30 years of Advanced Bionics' Innovation", Patrick Boyle
14:00-14:30	Cochlear, Ltd: "Opportunities and Challenges towards a Smarter and Distributed Care Model", Filiep Vanpouke
14:30-15:00	MEDEL: "MED-EL's Research Opus", Stefan Strahl
15:00-15:30	Oticon Medical: "New Frontiers in Hearing Outcomes", Bradford Backus, Yue Zhang, Jan Margeta and Manuel Segovia-Martinez
15:30-15:45	CCi Mobile: "CCi-MOBILE Research Platform: Supporting Science & Engineering Driven CI Innovation", John Hansen
15:45-16:00	FDA: "FDA Regulation of Investigational Studies for Auditory Prostheses", Lindsay A. DeVries, PhD
16:00-18:00 Poster Viewing	
18:00-19:00	Dinner

Session 4a: Clinical innovation and interventions	
19:00-19:30	P27: Using a NAO robot for speech audiometry testing of cochlear implanted children. Gloria Araiza-Illan , Bert Maat, Gera Nijhof, Francien Coster, Deniz Baskent
19:30-19:45	P28: Perception of simultaneous and sequential musical harmony in cochlear implant listeners. Marie-Luise Augsten , Martin Lindenbeck, Bernhard Laback
19:45-20:00	P29: Pitch, timbre, and quality with a cochlear implant: insights from vocal mimicry. David Landsberger , Natalia Stupak, Rahul Sinha, Gabriel McDerment, Aaron Johnson, John Galvin
20:00-20:15	Break
Session 4b: Clinical innovation and interventions	
20:15-20:45	P30: Influence of electric frequency-to-place mismatches on monaural and binaural hearing. Margaret Dillon , Emily Buss, Margaret Richter, Meredith Rooth, Kevin Brown
20:45-21:00	P31: Novel acoustic models of cochlear implants are reliably obtained using interactive genetic algorithms (iGA). Ariel Edward Hight , Nicole Capach, Jonathan Neukam, Robert Froemke, Mario Svirsky
21:00-00:00	Poster Viewing & Socializing

Wednesday 12 July	
07:00	Breakfast Opens
Session 5a: Mixed modalities	
08:30-09:00	P32: The nature of perceptual processing in vocal production. Sophie Scott
09:00-09:15	P33: The electrophysiology of audiovisual speech processing in aging cochlear implant users. James Dias , Kara Schwartz-Leyzac, Kelly Harris
09:15-09:30	P34: The impact of visual speech cues on listening effort for listeners with cochlear implants. Justin Fleming , Mathew Winn
09:30-09:45	P35: Contralateral speech interference with single sided deafness CIs: a general selective-attention deficit to asymmetric experience? Joshua Bernstein , Danielle Zukerman Schopf, Taylor Beinke, Marina Cox, Matthew Goupell
09:45-10:00	P36: Tactile stimulation enhances auditory speech perception in normal-hearing and cochlear-implanted listeners. Alina Schulte , Jeremy Marozeau, Andrej Kral, Hamish Innes-Brown
10:00-10:30	Break

Session 5b: Speech and language	
10:30-11:00	P37: Perceptual accommodation across sensory domains supports language learning via cochlear implantation. Heather Bortfeld
11:00-11:15	P38: The predictive value of multi-sensory communicative behaviour of infants in the first year of life to later language development: Implications to infants with cochlear implants. Liat Kishon-Rabin, Bonnie Levin-Asher, Ronen Perez
11:15-11:30	P39: How do the everyday speech-language environments of preschoolers with and without cochlear implants predict their vocal maturity outcomes? Meg Cychosz, Jan Edwards, Rachel Romeo, Jessica Kosie, Rochelle Newman
11:30-11:45	P40: Pediatric auditory brainstem implantations and cortical development features in congenital deafness children after ABI surgery. Hao Wu
11:45-12:00	P41: Assessment of speech comprehension with semantically anomalous sentences in cochlear implant users. Valeriy Shafiro, Jasper Oh, David Pisoni, Aaron Moberly
12:00-13:00	Lunch
14:00-15:30	Mentoring Session
16:00-18:00	Poster Viewing
18:00-19:00	Dinner
20:00-00:00	CIAP Social, Music, Dance Party and Poster Viewing

Thursday 13 July	
07:00	Breakfast Opens
Session 6a: Physiological measurements	
08:30-09:00	P42: Peripheral and cortical encoding of electrical stimulation and their associations with auditory perception in adult cochlear implant users. Shuman He
09:00-09:15	P43: Postoperative Impedance-Based Estimation of Cochlear Implant Electrode Insertion Depth. Stephan Schraivogel, Philipp Aebischer, Stefan Weder, Marco Caversaccio, Wilhelm Wimmer
09:15-09:30	P44: Electrocochleography and cochlear implants. Douglas Fitzpatrick, Craig Buchman, Oliver Adunka
09:30-09:45	P45: Polarity effect and ECAP measures over time and correlation with hearing preservation. Holden Sanders, Brittany Wilson, Sachin Gupta, Yael Raz, Jack Noble, Benoit M Dawant, Lina Reiss
09:45-10:00	P46: Neurophysiological correlates for the objective determination of stimulation levels in cochlear implant users. Elise Verwaerde, Wouter David, Julian Schott, Robin Gransier, Jan Wouters
10:00-10:30	Break
Session 6b: Physiological measurements	
10:30-11:00	P47: Investigating the electrophysiology of audiovisual speech integration under naturalistic conditions. Ed Lalor
11:00-11:15	P48: Electric acoustic integration in bimodal cochlear implant users. Hanna Dolhopiatenko, Waldo Nogueira
11:15-11:30	P49: Larger maladaptive activation of auditory cortex during lip-reading tasks at device switch-on predicts poorer future speech understanding outcomes for cochlear implant recipients. Tommy Peng, Mica Haneman, Jamal Esmaelpoor, Jessalynn Sukamto, Robert Luke, Maureen Shader, Colette M McKay
11:30-12:00	P50: Intracranial electrophysiology of clear and degraded speech processing in the human cortex. Kirill Nourski, Mitchell Steinschneider, Ariane E Rhone, Joel I Berger, Hiroto Kawasaki, Matthew A Howard
12:00-12:15	Group picture / student picture
12:00-13:00	Lunch
16:00-18:00	Poster viewing
18:00-19:00	Dinner

Session 7a: Biological therapies	
19:00-19:30	P51: Rincell-1: first-in-human, pluripotent stem cell-based therapy for hearing loss. Douglas Hartley, Marcelo Rivolta
19:30-20:00	P52: Precise targeting of GJB2 cells results in safe and efficacious gene therapy for hearing loss due to GJB2 deficiency (DFNB1). Kathryn Ellis, Gabriela Pregonig, Yoojin Chung, Kasey Jackson, Joseph Goodliffe, Chris Thompson, Sarah Cancelarich, Meghan Drummond
20:00-20:15	Break
Session 7b: Biological therapies	
20:15-20:45	P53: Preclinical development of an investigational genetic medicine for otoferlin gene-mediated hearing loss: AK OTOF. Aaron Tward
20:45-21:00	P54: Combined optical and electrical stimulation in the cochlea for high spatial and temporal resolution. Elise Ajay, Ajmal Azees, Alex Thompson, Andrew Wise, David Grayden, James Fallon, Rachael Richardson
21:00-00:00	Poster viewing and socializing

Friday 14 July	
07:00	Breakfast Opens
Session 8a: Advances in technologies and applications	
08:30-09:00	P55: Drug delivery to the inner ear for cochlear implants and beyond. Andrew Wise
09:00-09:15	P56: In vivo characterization of novel channel rhodopsin variants for the optogenetic activation of the auditory pathway by blue light. Lennart Roos, Aida Garrido-Charles, Bettina Julia Wolf, Anupriya Thirumalai, Antoine Huet, Kathrin Kusch, Thomas Mager, Tobias Moser
09:15-09:30	P57: Real-time simulation of active cochlear implant and its insertion. Lingxiao Xun, Yinoussa Adagolodjo, Gang Zheng, Alexandre Kruszewski, Christian Duriez
09:30-09:45	P58: Progress and challenges with implantable microphones for cochlear implants. John Zhang, Emma Wawrzynek, Song Cheng, Jeffrey Lang, Ioannis Kymissis, Elizabeth Olson, Hideko Heidi Nakajima
09:45-10:00	P59: Investigating an alternative to electrical hearing: Ultrasound stimulation of the peripheral auditory system. Olivier Macherey, Emilie Franceschini, Vinay Parameshwarappa, Elena Brunet, Eric Debieu, Pierre-Olivier Mattei, Yves Cazals
10:00-10:30	Break

Session 8b: Advances in technologies and applications

10:30-11:00 **P60:** Development and translation of a new auditory nerve implant. **Meredith Adams, Thomas Lenarz**

11:00-11:15 **P61:** New developments in vestibular implants: electrical stimulation of the otolith organs. **Andrzej Zarowski**, Morgana Sluydts, Marc Leblans, Floris Wuyts, Fergio Sismono, Joost van Dinther, Frans Erwin Offeciers, Angel Ramos De Miguel, Maurizio Barbara, Raquel Manrique-Huarte, Manuel Manrique, Angel Ramos Macias

11:15-11:30 **P62:** Magnetic intracochlear stimulation: towards next-generation cochlear implants. **Jae-Ik Lee**, Ryan Bartholomew, Victor Adenis, Merritt Christian Brown, Daniel Lee, Julie Arenberg, Shelley Fried

10:30-11:00 **P63:** The importance of CIAP for auditory science. **Bob Shannon**

12:00-13:00 **Lunch**

13:00 **Conference ends**