Joint Conference on Binaural and Spatial Hearing (BASH)

Thursday November 5th 2020

Session A – Live Talks – Moderator Chris Stecker 10:30-13:00 Boston / 16:30-19:00 Oldenburg / 2:30-5:00 Sydney

1	Philip Joris	Something on MSO
2	Christian Leibold	Dendrite function in MSO neurons
3	Catherine Carr	ITD circuit plasticity
4	Oded Barzelay	Reconstruction of reverberated speech from ensemble responses in the rabbit inferior colliculus
5	Rodrigo Pavão	Natural ITD statistics are represented in the neural code underlying human sound localization / Glitches in azimuth estimation behavior explained by peripheral priors overshadowing sensory cues
6	Theo Goverts	Binaural recordings in natural acoustic environments: Estimates of speech-likeness and interaural parameters. Consequences for clinical testing and binaural science

Session B – Live Talks – Moderator Erick Gallun 14:00-16:05 Boston / 20:00-22:05 Oldenburg / 6:00-8:05 Sydney

1	Les Bernstein	Binaural detection as a joint function of masker interaural correlation, masker bandwidth, and interaural time delay: Empirical data and quantitative modeling
2	Jonas Braasch	Binaural modeling from an evolving habitat perspective
3	Chris Stecker	What good is a "modeling paper?"
4	Richard Stern	Modeling binaural interaction / Binaural interaction and automatic speech recognition
5	Andrew Francl	Deep neural network models of sound localization reveal how perception is adapted to real-world environments

Friday November 6th 2020

Session C – Discussions – Moderator Gin Best 7:15-9:45 Boston / 13:15-15:45 Oldenburg / 23:15-1:45 Sydney

1	Jason Mikiel- Hunter	"What's in the envelope?: Reconstructing responses of low-CF MSO neurons to white noise tokens from their envelope sensitivity
2	Andrew Brughera	Sensitivity to envelope interaural time difference: Models of diverse LSO Neurons
3	Hongmei Hu	Interaural time difference coding in normal nearing and bilateral cochlear implant users - A common EI binaural model for acoustic and electric hearing: Part I single neuro
4	Jacques Grange	Psychophysical experiments ran through a physiologically-inspired advanced simulator uncover how specific sensorineural pathologies

		can degrade binaural unmasking and localization through a reduced access to binaural cues. Underlying mechanisms are revealed Break
5	Jörg Encke	A systems theory approach to understanding neuronal sensitivity to binaural cues
6	Jonas Klug	Low-pass filter characteristics derived from pure-tone ITD sensitivity
7	Christian Keine	Signal integration at spherical bushy cells - The role of neuronal inhibition
8	Robert Luke	A behavioural measure of interaural coherence and its relation to internal delay lines

Session D – Discussions – Moderator Torben Pastore 10:45-13:00 Boston / 16:45-19:00 Oldenburg / 2:45-5:00 Sydney

1	Julian Angermeier	Spatial release from masking through ITD and ILD in the presence of large interaural delays
2	Masoud Geravanchizadeh	Selective auditory attention detection based on connectivity measures
3	Stephen Town	World-centred sound localisation
4	Lubos Hladek	Speech perception and behavior during self-rotation in an acoustically complex scene Break
5	Niels Pontoppidan	Hearing compensation with binaural augmentation
6	Marcos Cantu	Binaurally-inspired approach to real-time computation of a ratio mask for low-latency enhancement of speech intelligibility with binaural cues preserved
7	Jan Rennies	Listening effort in binaural speech-on-speech masking conditions in NH and HI listeners

Session E – Live Talks – Moderator Owen Brimijoin 14:00-16:05 Boston / 20:00-22:05 Oldenburg / 6:00-8:05 Sydney

1	Erick Gallun	Binaural impairment: a historical review of the literature from 1875-2020
2	Luke Baltzell	The effect of hearing loss on sensitivity to ITDs at low and high frequencies
3	Bill Yost	An auditory Filehne illusion: Failure of head-position compensation
4	Yi Zhou	Response times in sound localization tasks
5	Antje Ihlefeld	How half-binaural is monaural hearing?