

Attention to sound

14 – 15 November 2018

Organised by Dr Alain de Cheveigné, Professor Maria Chait and Dr Malcolm Slaney

Wednesday 14 November			
SESSION 1 Motivation/industry Chair: Maria Chait		SESSION 2 Decoding attention Chair: Torsten Dau	
09.30	Welcome by the Royal Society and Alain de Cheveigné	14.00	Jonathan Simon The transformation from auditory to linguistic representations across auditory cortex is rapid and attention dependent
09.35	Alain de Cheveigné Introduction	14.20	Discussion
09.50	Thomas Lunner Towards intention controlled hearing aids: experiences from eye-controlled hearing aids	14.40	Mounya Elhilali Bottom-up auditory attention using complex soundscapes
10.10	Discussion	15.00	Discussion
10.30	Coffee	15.20	Tea
11.00	Simon Carlile Path to product: cost, benefits and risks	16.00	Nima Mesgarani Speaker-independent auditory attention decoding without access to clean speech sources
11.20	Discussion	16.20	Discussion
11.40	Malcolm Slaney The need for auditory attention	16.40	Ed Lalor On the encoding and decoding of natural auditory stimulus processing using EEG
12.00	Discussion	17.00	Discussion
12.20	General discussion	17.20	General discussion
12.40	LUNCH	17.40	CLOSE

Thursday 15 November

SESSION 3 Visual modality Chair: Adrian KC Lee		SESSION 4 Auditory modality Chair: Stephen David	
08.30	Heleen Slagter Facilitation and inhibition in visual selective attention	13.30	Jonas Obleser Objective, reliable, and valid? Measuring auditory attention
08.50	Discussion	13.50	Discussion
09.10	Huan Luo Rhythmic structures in visual attention: behavioural and neural evidence	14.10	Elana Golumbic Auditory selective attention: lessons from distracting sounds
09.30	Discussion	14.30	Discussion
09.50	Coffee	14.50	Tea
10.20	Nilli Lavie Attention across sound and vision: effects of perpetual load	15.30	Elia Formisano The neuro-computational architecture of auditory attention
10.40	Discussion	15.50	Discussion
11.00	Barbara Shinn-Cunningham Networks controlling attention in vision (and audition)	16.10	Ingrid Johnsrude How attention modulates processing of mildly degraded speech to influence perception and memory
11.20	Discussion	16.30	Discussion
11.40	General discussion	16.50	General discussion
12.00	LUNCH	17.10	Concluding session
		17.30	CLOSE

Draft programme – correct as of 29 October 2018 – subject to change