

Acknowledgments: This workshop is supported by the DUALPRO FP7 EC project and Neurelec-France.

Auditory temporal processing in normal and impaired ears

9 a.m.: General introduction

Ian Winter (Cambridge Univ, CNBH, UK) & Roy Patterson (Cambridge Univ, CNBH, UK), main moderators.

9:30 a.m. : First Session : “Auditory neuroscience and computer modelling”

Moderators: Christine Petit (Institut Pasteur, Collège de France, ISERM, France) & Romain Brette (ENS, Paris, France)

9:30-10 a.m.: Michael Heinz (Purdue Univ, USA): Effects of sensorineural hearing loss on temporal fine-structure and envelope coding in the auditory nerve

10-10:30 a.m.: Ian Winter (Cambridge Univ, CNBH, UK): Where does all the fine-structure go? Tales from the cochlear nucleus

10:30-11 a.m.: Coffee break

11-11:30 a.m.: Yves Cazals (ISERM, CNRS, Paul Cezanne Univ, Marseille, France): Auditory CNS plasticity after unilateral deafness and electrical stimulation of the cochlea : a study in guinea pigs.

11:30-12 a.m.: Samira Anderson (Northwestern University, Chicago, USA): Brainstem Correlates of Speech-in-Noise Perception

12 a.m.-1:30 p.m.: Lunch

1:30 p.m. : Second session: Psychoacoustics : AM-FM perception & speech intelligibility

Moderators: Christian Lorenzi (Paris Descartes Univ, ENS, CNRS, France) & Trevor Agus (Paris Descartes Univ, ENS, CNRS, France)

1:30-2 p.m.: Stanley Sheft (Rush Univ Medical Center, Chicago, USA): Relationship Between Stochastic FM Discrimination and Speech Perception in the Elderly.

2-2:30 p.m.: Deniz Baskent (Groningen Univ, Netherlands): Speech perception with reduced frequency resolution as simulated with envelope processing

2:30-2:45 p.m.: Coffee break

2:45-3:15 p.m.: Robert Shannon (HEI, Los Angeles, USA): What implant research tells us about the relative importance of envelope and fine structure cues

3:15-3:45 p.m.: Kathryn Hopkins (Cambridge Univ, UK): The importance of temporal fine structure information in speech at different spectral regions for normal-hearing and hearing-impaired subjects

3:45-4 p.m.: Thomas Lunner (Oticon Eriksholm, Denmark & Linköping Univ., Sweden): On spatial release from masking and TFS

4 p.m - 4:30 p.m.: Coffee Break

4:30 p.m.: Third session: Psychoacoustics & cognitive neuroscience : Pitch perception

Moderators: Alain de Cheveigné (Paris Descartes Univ, ENS, CNRS, France) & Daniel Pressnitzer (Paris Descartes Univ, ENS, CNRS, France)

4:30-5 p.m.: Brian Moore (Cambridge Univ, UK): The role of TFS in pitch perception for tones with intermediate harmonic numbers

5-5:30 p.m : Sébastien Santurette (CAHR, Copenhagen, DK) : Importance of temporal fine structure information for the low pitch of high-frequency complex tones

5:30-5:45 p.m.: Coffee Break

5:45-6:15 p.m.: Christophe Micheyl (Minnesota Univ, USA): A critical review of recent evidence for a role of temporal fine structure in pitch perception

6:15-6:45 p.m.: Hedwig Gockel (CBU, MRC, UK): The combination of F0 information across spectral regions

6:45-7 p.m.: Coffee Break

7-7:30 p.m.: Isabelle Peretz (Montreal & McGill Univ, Canada): Abnormal connectivity in the auditory-frontal neural pathway in congenital pitch disorder

7:30-8 p.m.: Concluding comments

Pierre Divenyi (VAMC, EBIRE, California, USA): Final speculations: the kind of TFS needed for speech perception

Ian Winter (Cambridge Univ, CNBH, UK)

Presentation duration: 20 minutes
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Questions: 10 minutes
