

Third McMaster-Gennum Workshop on Intelligent Hearing Instruments
The Talisman, Kimberley, Ontario
September 29 - October 1, 2002

PROGRAM

Sunday, September 29

6:00 - 6:30 pm Reception

6:30 - 8:30 pm Dinner

8:30 - 9:30 pm **Jont Allen, Mimoso Acoustics - Plenary Speaker**
*Wide dynamic range compression hearing aids:
history, physiology and signal processing*

Monday, September 30

7:00 - 8:30 am Breakfast - (Buffet - Main Dining Room)

8:30 - 9:30 am **Steve Armstrong, Gennum Corporation**
What is a Hearing Aid Anyway?

9:30 - 10:30 am **Robert Hecht-Nielsen, University of California, San Diego**
*A Theory of Thalamocortical Information Processing and its
Implications for Intelligent Hearing Instruments*

10:30 - 11:00 am Coffee

11:00 - 12:00 pm **Shihab A. Shamma, University of Maryland**
The representation of Spectral Dynamics in the Auditory SystemR

12:00 - 12:30 pm Discussion

12:30 - 2:00 pm Lunch (Buffet - Main Dining Room)

2:00 - 3:00 pm **Mike Lewicki, Carnegie Mellon University**
*Theoretical perspectives on coding natural sounds in the
auditory system*

3:00 - 3:30 pm Coffee

3:30 - 4:30 pm **Susan Scollie, University of Western Ontario**
*What is the role of electroacoustic measurement in fitting advanced
digital hearing aids?*

4:30 - 5:00 pm Discussion
6:00 - 8:00 pm Dinner - (Buffet - Main Dining Room)

Tuesday, October 1

7:00 - 8:00 am Breakfast - (Buffet - Main Dining Room)
8:00 - 9:00 am **Bruce Wheeler, University of Illinois at Urbana-Champaign**
*Biologically inspired binaural hearing aid algorithms:
Design principles and effectiveness*
9:00 - 10:00 am **Gert Cauwenberghs, John Hopkins University**
Gradient Flow Adaptive Beamforming and Signal Separation
10:00 - 10:30 am Coffee
10:30 - 11:30 pm **Craig L. Fancourt, Sarnoff Corporation**
Combining geometric beamforming and blind source separation
11:30 - 12:00 Discussion
12:00 - 1:00 pm Lunch - (Buffet - Main Dining Room)
1:00 - 2:00 pm **David Brown, Gennum Corporation**
What About Not-So-Intelligent Hearing Aids?
2:00 - 3:00 pm **Michael Stinson and Gilles Daigle, National Research Council**
Effect of telephone handset proximity on hearing aid feedback
3:00 - 3:30 Coffee
3:30 - 4:30 **Stefan Harmeling, Fraunhofer FIRST, Germany**
Kernel-bases nonlinear blind source separation
4:30 - 5:00 pm Discussion