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Presentation  
**Hearing Tests for iPhone/iPod Touch**  
Carl Blackwood and Dr. Don Hayes, Unitron

|       |   |
|-------|---|
| date  | Tuesday, 22 September 2009  |
| time  | 7:00 PM   |
| where | <b>Ryerson University</b><br>RCC 361, Rogers Communications Building<br>80 Gould Street, Toronto, ON<br><i>Corner of Gould and Church, east of Yonge St (Dundas Subway)</i><br><b>For parking info and map, goto <a href="http://www.ryerson.ca/parking/">www.ryerson.ca/parking/</a></b> |
|       | Pre-Meeting "Dutch Treat" dinner 5:00 pm at the Pickle Barrel (corner of Edward and Yonge in the Atrium)  |

About the Meeting

The era of the self-administered hearing screening has arrived. Come and learn about uHear; a free application for the iPhone and the iPod Touch users containing three separate screening tools to assess your auditory performance on multiple dimensions.

With uHear it is possible to screen your personal hearing sensitivity at 6 frequencies, test your speech in noise performance and screen your performance in everyday listening situations using a standardized questionnaire. The uHear application is a serious screening tool based on sound audiologic principles that takes advantage of these ubiquitous and portable hand-held devices from Apple.

In this presentation we will discuss the mechanics of hearing, hearing loss and noise exposure. We will also cover the motivation behind the application, how it is designed to work and both its strengths and its weaknesses with respect to Audiometric testing. We will break down the five components of the uHear application; pure tones, ANL, questionnaire, facts and the locator function.

Finally we will talk about the hardware platform, software environment and challenges encountered during the development. Please join us to learn more about this unique application.

Presenters

Carl Blackwood and Dr. Don Hayes. *See Page Two for bios and information about Unitron.*



THIS MONTH'S MEETING  
SPONSORED BY UNITRON

### Bio – Don Hayes

Dr. Donald Hayes joined Unitron in 2002 and serves as the Director of Audiology. He is responsible for leading the company's audiology research efforts, as well as new product concept testing and validation.

Dr. Hayes earned his Ph.D. in Audiology from the University of Cincinnati in 2002 with a focus on crossover frequencies and digital noise reduction algorithms. At Unitron he continues to work in these areas, while assessing the acoustic effects of multiple adaptive features within a single hearing aid.

Prior to joining Unitron, Dr. Hayes held the position of Assistant Professor at the University of Cincinnati and was a Lecturer in the Department of Speech Pathology at the University of Toronto. He has also worked as an Audiologist Consultant for the Canadian Ministry of Health and Sunnybrook Health Science Centre in Toronto.

Dr. Hayes has published articles in a number of journals including Scandinavian Audiology and the Journal of the American Academy of Audiology. He has presented at various American and Canadian conferences on topics ranging from the applications for digital hearing aids to solutions for Unilateral hearing loss.

### Bio – Carl Blackwood

A 21 year AES member, Carl Blackwood joined Unitron in 1995 as a Test Engineer. He designed and developed Electro-acoustics, Measurement and Control systems used in the Hearing Aid Manufacturing process. He is currently the Manager, Test and Configuration Software at Unitron. Carl previously worked in various positions in the Biomedical Instrumentation and Telecommunications field. Carl has a B. Eng. (Electronics) Degree.

### About Unitron

Since our founding in 1964, Unitron has emerged as one of the fastest growing, most successful hearing instrument manufacturers in the world. This leadership was borne of a growing expertise and shared passion for doing certain things really well. As we proudly assume this leadership position, we have the responsibility – and the pleasure – of communicating to the world what we stand for as an organization, and the promise that we make to the people whose professions and lives are touched by what we do each day.

#### Our Promise:

We care deeply about people with hearing loss and the professionals who support them. Together we pursue fresh and imaginative ways to improve lives, in both great and small ways, and we make these advances available to everyone. This purpose-driven innovation is a priority in everything we do.

#### Connecting Around the Globe:

Unitron is a global innovator of technologically advanced hearing instruments, and works in close partnership with hearing healthcare professionals around the world to meet the needs of their customers. The Company is headquartered in Kitchener, Ontario, Canada – a center of academic and scientific excellence in the global hearing industry.

Unitron serves hearing healthcare professionals and their customers through 16 national offices and through third-party distributors in a further 53 countries.