



National Capital Region Chapter of the
ACM Special Interest Group on Computer Human Interaction

Performing Email Tasks While Driving **The Impact of Speech-based Tasks on Visual Detection (Plus Other Research Activities)**

Presented by **Joanne Harbluk**, Human Factors Specialist, Transport Canada
on Tuesday December 06, 2005 at **Adobe Systems Canada**

What?

Summary: In this study, drivers listened and responded to email messages presented in a human voice and two types of synthetic speech while driving a simulator. Their performance for visual event detection, vehicle control, and message responses was assessed. The results indicated that although drivers were not required to direct their attention away from the road, using the speech-based interfaces reduced drivers' visual event detection and their response accuracy to messages themselves.

Who?

Joanne Harbluk is a Human Factors Specialist with the Ergonomics and Crash Avoidance Division of Transport Canada. Currently her research is focused on Intelligent Transportation Systems and human interaction with these systems. Current research interests include driver distraction and methods for assessing the safety of in-vehicle information and communication systems. She has a background in Cognitive Psychology and holds M.A. and Ph.D. degrees from the University of Western Ontario. Joanne is an adjunct Research Professor in the Psychology Department at Carleton University, and an associate member of the Center for Applied Cognitive Research (Carleton University). She is member of the Human Factors and Ergonomic Society, the American Psychological Association, and a member of the Transportation Research Board Committees on Vehicle User Characteristics (AND10) and Simulation and Measurement of Vehicle and Operator Performance Committee (AND30).

When and Where?

The meeting takes place on Tuesday December 06, 2005 at 7:00 pm in the Klondike Conference Room at Adobe Systems Canada in Ottawa, located at 785 Carling Avenue (near Dow's Lake, between Rochester and Preston streets) Ottawa, ON K1S 5H4 Canada.

- Free parking available on site after 6:00 PM; entrance is on Rochester Street.
- **Bus routes 6 and 85** pass in front of the Adobe Systems Canada office on Carling Avenue.
- **Bus route 3** stops on Preston St at Carling Avenue, near the Adobe Systems Canada office.
- **Bus route 4** stops on Bronson Avenue at Carling Avenue, near the Adobe Systems Canada office (10-15 minute walk)
- The **O-Train** stops at Carling Station; you can walk east long Carling Avenue from the station (3-5 minute walk).

Note: All attending will be required to register with security. Please arrive 5-10 minutes earlier to allow for registering.

The meeting fee is \$5 for non-members and free for CapCHI members (\$20/year). Membership is for the session period (September 2005-August 2006) - anyone can join!

Refreshments will be provided for the meeting.

For more information see www.capchi.org or contact CapCHI@gmail.com.