

**111<sup>th</sup> Annual Convention of the  
American Psychological Association**  
Toronto, Canada  
August 7-10, 2003

**Division 21 - Applied Experimental and Engineering Psychology  
Meeting Schedule**

**Thursday, August 7<sup>th</sup>**

**0800-1050 Executive Committee Meeting (Crowne Plaza Toronto Centre Hotel – High Park Room)**

**1200-1350 The Many Faces of Human-Computer Interaction Researchers in Information Systems  
(Metro Toronto Convention Centre – Meeting Room 206C)**

An Assessment of Research in MIS Related HCI Studies

*Ping Zhang, Ph.D., Syracuse University*

Perceived Security Issues in On-Line Shopping Behavior

*A. O. Ozok, Ph.D., University of Maryland Baltimore County*

History-based User Interfaces for Information Retrieval, Use, and Management

*Anita Komlodi, Ph.D., University of Maryland Baltimore County*

Who Knows? Design Challenges of Interfacing Organizational Memory Systems

*Wayne Lutters, Ph.D., University of Maryland Baltimore County*

Designing Sociable, Universally Usable Online Communications

*Jenny Preece, Ph.D., University of Maryland Baltimore County*

**1400-1550 Multidisciplinary Perspectives on Human-Computer Interaction  
(Metro Toronto Convention Centre - Meeting Room 206C)**

Fostering Constructive Cognitive and Metacognitive Activity in Computer-based Training Environments

*Haydee Cuevas, B.A., University of Central Florida*

Web Usability and Accessibility: Empirical Research, Development Methods, Guidelines, and Tools

*Jonathan Lazar, Ph.D., Towson University*

Self-service Systems: New Methodology Reveals Real-time Customers' Actions during Merger

*Reginia Colonia-Willner, Ph.D., Modus OSI Technologies, Inc.*

Interaction in Collaborative Computer-Supported Diagram Development

*J.D. Campbell, Ph.D., University of Maryland Baltimore County*

Distributed Interactive Communication in Simulated Space-dwelling Groups

*Joseph Brady, Ph.D., Johns Hopkins University School of Medicine*

**Friday, August 8<sup>th</sup>**

**0800-0950 Cutting-edge Research by the Next Generation of Applied Experimental Psychologists  
(Metro Toronto Convention Centre – Meeting Room 206E)**

Effects of Instructional Framing on Automation, Trust, and Reliance

*Frank Lacson, B.S. and Douglas Wiegmann, Ph.D., University of Illinois at Urbana-Champaign*

Cognitive Anchoring and Agreement with Automated Diagnostic Aids

*Poornima Madhavan, M.A., and Douglas Wiegmann, Ph.D., University of Illinois at Urbana-Champaign*

Pictures Speak Louder than Words: Differences in Textual vs. Pictorial Organization

*A. William Evans, B.S., Raegan Hoeft, B.A., Michelle Harper, B.S., Florian Jentsch, Ph.D., and Clint Bowers, Ph.D., University of Central Florida*

Impact of Multimedia on Knowledge Performance for Complex Training Environments  
*Sandro Scielzo, B.S., Stephen Fiore, Ph.D., and Haydee Cuevas, B.A., University of Central Florida*

The Effect of Workload on Team Performance  
*Heather Priest, M.S., Shawn Burke, Ph.D., and Eduardo Salas, Ph.D., University of Central Florida*

**1400-1450 Division 21 – Presidential Address  
(Crowne Plaza Toronto Centre Hotel – Kingsway Room)**

Air Traffic Control: A bit of history and the characteristics of those that keep the sky safe.  
*David Schroeder, Ph.D., FAA Civil Aerospace Medical Institute*

**1500-1550 Division 21 – Business Meeting  
(Crowne Plaza Toronto Centre Hotel – Kingsway Room)**

**1600-1750 Divisions 19 and 21 Social Hour  
TBA**

**Saturday, August 9<sup>th</sup>**

**0900-1050 Selection for safety-sensitive positions in the Federal Aviation Administration  
(Metro Toronto Convention Centre – Meeting Room 802A)**

The FAA's history of matching human capabilities to job requirements  
*Dana Broach, Ph.D., FAA Civil Aerospace Medical Institute*

Selection for the present and future: The AT-SAT battery  
*Cristy Detwiler, B.A. & Raymond King, Ph.D., FAA Civil Aerospace Medical Institute*

Cross-validation of FAA biodata inventories with AT-SAT tests  
*Michelle Dean, Ph.D., San Diego State University*

Resetting AT-SAT test weights/passing level to reduce adverse impact  
*Laurens Wise, Ph.D., Suzanne Tsacoumis Ph.D., Gordon Waugh, Ph.D., & D Putka, Ph.D., Human Resources  
Research Organization (HumRRO)*

Development of parallel versions of the AT-SAT battery  
*Ray Morath, Ph.D., L. Anderson, & B. Bocketti, M.A., Caliber Associates*

Contribution of a non-cognitive task to ATCS selection  
*Ray King, Ph.D., Paul Retzlaff, Ph.D., and Cristy Detwiler, B.A., FAA Civil Aerospace Medical Institute and the  
University of Northern Colorado*

**1300-1450 Division 21 2002 Taylor, Briggs, and Early Career Award Winners Paper Presentations  
(Crowne Plaza Toronto Centre Hotel – Caledon Room)**

**Franklin V. Taylor Award for Outstanding Contribution to the Field**  
*Wendy Rogers, Ph.D., Georgia Institute of Technology*

**Earl Alluisi Early Career Achievement Award**  
*Florian Jentsch, Ph.D., University of Central Florida*

**George E. Briggs Dissertation Award**  
*Gary Olasci, Ph.D., SeeBeyond*

**Sunday, August 10<sup>th</sup>**

**0800-0950 Engineering Solutions for Performance Enhancement: Naval applications for Sea, Ground, and  
Air  
(Metro Toronto Convention Centre – Reception Hall 104D)**

Exploiting human information processing to enhance virtual environment (VE) training  
*Joseph Cohn, Ph.D., Naval Research Laboratory*

The role of neuropsychology in Naval diving: Use of technology to understand environment impact on the  
human system  
*John Melton, Ph.D., Naval Experimental Diving Unit*

Enriched interface design – Information distinctiveness and performance trade-offs

*James Patrey, Ph.D., United States Air Force Academy*

Watchstanding, circadian rhythms, and sleep onboard a submarine: A laboratory simulation

*Jeff Dycbe, Ph.D., Naval Submarine Medical Research Laboratory*

**1000-1150 Human Factors and Cognitive Research Pot Pouri  
(Metro Toronto Convention Centre – Meeting Room 206E)**

Operators' use of imperfect automation in luggage screening

*Douglas Wiegmann, Ph.D., Jason McCarley, Ph.D., Christopher Wickens, Ph.D., Arthur Kramer, Ph.D. & Jason Wong, University of Illinois at Urbana-Champaign*

Varying the Velocity: Implications for Cognitive Load

*Ashley Nunes, MA and Gabriel Nevarez, BA, University of Illinois at Urbana-Champaign*

Human Error Comparison of Military and Civilian Aviation Accidents using HFACS

*Scott Shappell, Ph.D. and Douglas Wiegmann, Ph.D. FAA/Civil Aerospace Medical Institute and the University of Illinois at Urban-Champaign*

Multidisciplinary Human-Computer Interaction as a Catalyst for Cognitive Research

*Ronald Boring, MA, Carleton University*

Does our education prepare us for the complexities of life?

*Dominik Guess, Ph.D., Northern Illinois University*

The generation effect in proofreading

*Maura Pilotti, Ph.D., Martin Chodorow, Ph.D., David Barnard, MA, and Kendell Thornton, Dowling College and Hunter College*

Psychology's role in protecting the Earth against large meteor strikes

*Harvey Wichman, Ph.D. Claremont McKenna College*

**13:00-14:50 Supporting and Accommodating the Needs of Persons with Disabilities  
(Co-sponsored with Division 05 – Evaluation, Measurement, and Statistics)**

Information technology accessibility: Education and employment of people with disabilities

*Susanne Bruyere, Ph.D., Cornell University*

Legal and ethical aspects of test accommodations

*Rochelle Balter, Ph.D., J.D., Private Practice*

Toward optimal psychosocial assessment for assistive devices

*Jeffrey Jutai, Ph.D., University of Western Ontario*

European instruments for AT outcome assessment

*Gelderblom Gert Jan, Ph.D., Institute for Rehabilitation Research, Hoensbroek, The Netherlands*

**ADDITIONAL CO-SPONSORED EVENTS WITH THE SCIENCE DIRECTORATE  
(LOCATION TBA)**

**Distinguished Scientific Contribution Award/Plenary Speaker**

The end of stress as we know it.

*Burce McEwen, Ph.D.*

**Distinguished Scientific Award for the Applications of Psychology**

From basic research to applied research and back again.

*Stephen Ceci, Ph.D.*

**Distinguished Scientific Award for the Applications of Psychology**

Make-believe memories.

*Elizabeth Loftus, Ph.D.*

**Master Lecture**

Improving police lineups: A successful application of scientific psychology.

*Gary Wells, Ph.D.*

**Master Lecture**

The joists and tiers of memory.

*Mortimer Mishkin, Ph.D.*

**Board of Scientific Affairs Session**

New research directions for NIDA, NIMH, and NIAAA.

*Glen Hansen, Ph.D., Thomas Insel, Ph.D., and T.K. Li, M.D.*