

**112th Annual Convention of the
American Psychological Association**

Honolulu, Hawaii

July 28 – August 1, 2004

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

Tuesday, July 27th

0800-1050 Division 21 Executive Committee Meeting

Wednesday, July 28th

0900-0950 Human Factors and Cognitive Research Pot Pouri (*Poster Session*)

Retrospective Reports of Organizational Commitment after Russian Military Downsizing

Jessica Kwong, Ph.D., The Chinese University for Hong Kong

Self-Contained Atmospheric Protective Ensemble Suit Study at Kennedy Space Center

Jessica Mock, M.S., University of Central Florida and Paul Hollis, B.S., United Space Alliance

Assessing Text Entry Requirements and Designs for Next Generation Devices

Marita O'Brien, M.S., Mark Richman, Wendy Rogers, Ph.D., and Arthur Fisk, Ph.D., Georgia Institute of Technology

What Do We Know About Teams? A Practical Framework

Heather Priest, M.S., Shawn Burke, Ph.D., Eduardo Salas, Ph.D., and Clint Bowers, Ph.D., University of Central Florida

Alternatives to Grouping Individuals in the Analysis of Individual Differences Data: Applications to Optimism and Pessimism

James Szalma, Ph.D. and Peter Hancock, Ph.D., University of Central Florida

Patterns of Aggressive Behavior Among College Students

Mustapha Mouloua, Ph.D., University of Central Florida

**1000-1150 Spatial Perception, Spatial Cognition: Mapping the Self and the Environment
(*Symposium Co-sponsored with Division 6*)**

Exploration and Spatial Cognition

Catherine Thinus-Blanc, Ph.D., Laboratory of Neurophysiology and Neuropsychology, EMI-U Institut National de la Sante et de la Recherche Medicale, France

The Development of Place Learning in Comparative Perspective

Nora Newcomb, Ph.D., Temple University

Very Young Children's Use of Spatial Symbols

Judy DeLoache, Ph.D., University of Texas

In the Beginning, There Was Spatial Cognition: An Evolutionary Tale of Chimpanzee Sex Differences

Sally Boysen, Ph.D., Ohio State University

Left-Right Discrimination, Mirror Self-Recognition

William Hopkins, Ph.D., Berry College

Parietal Mechanisms of Plasticity and Extensibility of Body Schema with Tool Use in Monkeys

Atsushi, Iriki, Ph.D., Tokyo Medical and Dental University

Signal Integration in Perception and Spatial Cognition in Real and Artificial Organisms

Angelo Arleo, Ph.D., Sony Computer Science Laboratory

Spatial Behavior and Cognition in Small-scale Versus Large-scale Space

Francine Dolins, Ph.D., Polytechnic University

1300-1350 Division 21 President's Choice Address

Imperfect Automation: The Allocation of Attention, and the Influence of Alert Criteria

Christopher Wickens, Ph.D., University of Illinois

Thursday, July 29th

0800-0950 Human Factors in Transportation Research

Toward a Theory of Driving: From Gibson through Rasmussen

D. Alfred Owens, Ph.D., Franklin & Marshall College

Driver Distraction: An Experimental Analysis

Mustapha Mouloua, Ph.D., Peter Hancock, Ph.D., Edward Rinalducci, Ph.D., University of Central Florida

Attitudes of Police Officers Toward Seat Belt Use While on Duty

Shawn Stafford, B.A., Tal Oron-Gilad, Ph.D., James Szalma, Ph.D., Karen Delossantos, Peter Hancock, Ph.D., University of Central Florida

Incremental Transfer of Training Effectiveness of a Personal Computer Aviation Device (PCATD) and Flight Training Device (FTD)

Henry Taylor, Ph.D., Donald Talleur, Tom Emanuel, and Esa Rantanen, Ph.D., University of Illinois

Trying to Predict the Future: Where Technology Fails the Pilot

Melanie Diez, M.A., Deborah Boehm-Davis, Ph.D., and Lance Sherry, Ph.D., George Mason University

Effects of Spatial Cueing Errors on Automation Trust and Operator Performance

Julian Goh, M.S., and Douglas Wiegmann, Ph.D., University of Illinois

1000-1150 Division 21 – 2003 Award Winner Addresses

Franklin V. Taylor Award Address

Using Cognitive Modeling to Understand Performance in the Aviation Domain

Deborah Boehm-Davis, Ph.D., George Mason University

Earl A. Alluisi Award Address

Still Living in the Dark Ages: Human Factors Aspects of the 2003 East Coast Blackout

Douglas Wiegmann, Ph.D., University of Illinois

George E. Briggs Award Address

The Development of Perceptual-Cognitive Expertise

Paul Ward, Ph.D., Mississippi State University

Friday, July 30th

0800-0950 Effects of Individual, Group, and Cultural Differences on Human Performance

The Influence of Dispositional Optimism and Pessimism on Task Engagement for Spatial and Temporal Discrimination

James Szalma, Ph.D., Jennifer Ross, B.A., and Peter Hancock, Ph.D., University of Central Florida

Designing a Web Interface Based on Cognitive Style Scores

James Redmond, Ph.D. and Adrian Parkinson, Ph.D., Trinity College

Cultural Influences on Dynamic Decision-Making

Dominik Guess, Ph.D. and Emma Glencross, B.A., University of North Florida

The Age-Related Effects of Training on Learning Complex System Structures

Jamye Hickman, B.A., Wendy Rogers, Ph.D., and Arthur Fisk, Ph.D., Georgia Institute of Technology

The Influence of Interface Agent Consistency on User Perceptions of Predictability

James Cotton, B.S. and Florian Jentsch, Ph.D., University of Central Florida

Improving Individual Fatigue Management Strategies Through the use of Education and Training

Patrick Sherry, Ph.D., Karen Philbrick, Ph.D., Nazanin Bahraini, M.A., and Dawn Graham, M.S., University of Denver

1300-1350 Succeeding in Today's High Tech Marketplace: Jobs, Internships, Networking, and Mentors (Discussion)

Chaired by Haydee M. Cuevas, B.A., University of Central Florida

Discussion with Barry Beith, Ph.D., HumanCentric Technologies, Inc.; Deborah Boehm-Davis, Ph.D., George Mason University, Wendy Rogers, Ph.D., Georgia Institute of Technology; and David Schroeder, Ph.D., FAA Civil Aerospace Medical Institute

1400-1450 Division 21 Business Meeting**1500-1550 Division 21 Presidential Address**

What Would Licklider Think About Engineering Psychology Today?

Douglas Griffith, Ph.D., General Dynamics

1600-1750 Division 19 & 21 Social Hour (actually 2-hour)**Saturday, July 31st****0800-0950 Older Adults and New Technology: Creating Usable Systems (Symposium)**

Chair

Neil Charness, Ph.D. Florida State University

Older Adults and the Use of Technology: Findings from CREATE

Sara Czaja, Ph.D., University of Miami College of Medicine

Videoconference Administration of Neuropsychological Tests to Younger and Older Adults

Michael Tuffiash, M.A., Florida State University

Towards Understanding Components of Age-Related Differences in Menu Navigation

Wendy Rogers, Ph.D., Georgia Institute of Technology

Discussant

Barry Beith, Ph.D., HumanCentric Technologies, Inc.

1200-1250 Human Factors in Patient Safety

Instructions for Chronic Heart Failure Medication: Validation by Patient Preferences

Daniel Morrow, Ph.D., University of Illinois, Michael Weiner, M.D., Indiana University School of Medicine, Douglas Steinley, M.S., University of Illinois, James Young, M.S., Wishard Health Services, and Michael Murray, Purdue University

Automated Technology and Patient Safety: A Case Study

Katherine Wilson-Donnell, M.S., Heather Priest, M.S., Shawn Burke, Ph.D., Cameron Klein, M.S., Dana Sims, M.S., and Eduardo Salas, Ph.D., University of Central Florida & Robert Wears, M.D. and Shawna Perry, M.D., University of Florida Health Science Center

Developing a Model to Predict the Success of Clinical Technology Implementation

Kuang-Yi Wen, M.S., Center for Health System Research and Analysis

Sunday, August 1st**0800-0950 Team Performance in Complex Systems: Human-Human and Human-Automation Interaction**

Failures of CRM in Commercial Aviation Accidents: What's Behind the Failures

Terry von Thaden, M.S., and Douglas Wiegmann, Ph.D., University of Illinois

Critically Examining CRM Training's Effectiveness: An Update, Extension, and Needs

Katherine Wilson-Donnelly, M.S., Shawn Burke, Ph.D., and Eduardo Salas, Ph.D., University of Central Florida

Patterns of Team Communication: Are All Teams Created Equal?

Heather Priest, M.S., Joseph Guthrie, M.S., Shawn Burke, Ph.D., Clint Bowers, Ph.D., Eduardo Salas, Ph.D., Laura Milham, M.S., University of Central Florida

Development of COTS Testbeds: Examining the Performance of Teams Under Stress

Joseph Guthrie, M.S., Heather Priest, M.S., Kia Asberg, B.S., Shawn Burke, Ph.D., Eduardo Salas, Ph.D., Clint Bowers, Ph.D., University of Central Florida

Human/Computer Symbiosis 2

Douglas Griffith, Ph.D., General Dynamics

Occasional Automation Failures on Easy Tasks Undermines Trust in Automation

Poornima Mahavan, M.A. and Douglas Wiegmann, Ph.D., University of Illinois

1000-1150 Promoting Education within Synthetic Learning Environments

Chair

Clint Bowers, Ph.D., University of Central Florida

A Framework for Technology-Enabled Learning Research

Jan Cannon-Bowers, Ph.D., University of Central Florida

Simulation Tools to Support Knowledge Acquisition and Integration for Algebra

Stephen Fiore, Ph.D., Steven Condly, Ph.D., Glenn Martin, M.S., and Art Cortes, M.S., University of Central Florida

Virtual Reality with Special Education Populations

Jennifer Vogel, M.S., Kia Asberg, B.S., University of Central Florida

Creating Dynamic Learning Experiences in Students via Virtual Field Trips

Haydee Cuevas, B.A., Jan Cannon-Bowers, Ph.D., and Stephen Fiore, Ph.D., University of Central Florida

Evaluating the Effectiveness of Synthetic Learning Environments

Bobby Jeanpierre, Ph.D., University of Central Florida

Discussant

Clint Bowers, Ph.D., University of Central Florida