



# 24th ARMY SCIENCE CONFERENCE

*Transformational Science and Technology for the Current and Future Force*



## Presentations

Updated October 27, 2004

### OVERVIEW

### CONFERENCE COMMITTEES

### CALL FOR PAPERS

### EXHIBITS

### AGENDA

### BIOGRAPHIES

### REGISTRATION

### MEDIA

### LODGING

### TRANSPORTATION

### LOCAL ATTRACTIONS

### 23RD ASC HIGHLIGHTS

### HOME

WEDNESDAY, DECEMBER 1, 2004

### J. Behavioral Sciences and Human Performance

ORAL PRESENTATIONS		
TIME	PAPER	DESCRIPTION
3:45 - 3:55 PM		<p><b>INTRODUCTION</b></p> <p><b>Co-Chair: Dr. Zita Simutis</b> U.S. Army Research Institute</p> <p><b>Co-Chair: Dr. Herbert Meiselman</b> U.S. Army Natick Soldier Center</p>
3:55 - 4:20 PM	JO-01	<p><b>Measurement of Human Performance for Future Combat Systems Command and Control</b></p> <p><b>Carl W. Lickteig</b>, William R. Sanders, James W. Lussier and Paula J. Durlach, U.S. Army Research Institute for the Behavioral and Social Sciences</p>
4:20 - 4:45 PM	JO-02	<p><b>Effects of Cognitive Workload on Decision Accuracy, Shooting Performance, and Cortical Activity of Soldiers</b></p> <p><b>S. E. Kerick</b> and L. E. Allender, U.S. Army Research Laboratory</p>
4:45 - 5:10 PM	JO-03	<p><b>Performance Measures for Dismounted Warrior Encapsulation Effects</b></p> <p>Linda Mullins, <b>Debbie Patton</b> and Lamar Garrett, U.S. Army Research Laboratory</p>
5:10 - 5:35 PM	JO-04	<p><b>Caffeinated Gum Maintains Vigilance, Marksmanship, and PVT Performance During a 55 Hour Field Trial</b></p> <p><b>G. H. Kamimori</b>, D. Johnson and G. Belenky, Walter Reed Army Institute of Research; T. McLellan and D. Bell, Defence Research and Development Canada – Toronto</p>
5:35 - 6:00 PM	JO-05	<p><b>The Effects of Soldiers' Loads on Postural Sway</b></p> <p><b>Jeffrey M. Schiffman</b>, Carolyn K. Bense, Leif Hasselquist, Karen Norton and Louis Piscitelle, U.S. Army Natick Soldier Center</p>
6:00 - 6:20 PM	J-JSHS	<p><b>Responses to Global Warming in <i>Pieris rapae</i> (Lepidoptera): Consequences of Increased Nocturnal Temperature on Fitness Components</b></p> <p><b>Alia Whitney Johnson</b>, North Carolina School for Science and Mathematics</p>

### POSTERS

Posters JP-01 - JP-07 will be displayed on **Monday, November 29**, and **Tuesday, November 30**.

Posters JP-08 - JP-14 will be displayed on  
**Wednesday, December 1**, and **Thursday, December 2**.

JP-01	<p><b>Army Digital Systems and Vulnerability to Change Blindness</b></p> <p><b>Paula J. Durlach</b>, U.S. Army Research Institute for the Behavioral and Social Sciences</p>
JP-02	<p><b>Post-deployment Mental Health Screening Instruments: How Good Are They?</b></p> <p>Paul D. Bliese, Kathleen M. Wright, <b>Jeffrey L. Thomas</b> and Amy B. Adler, U.S. Army Medical Research Unit-Europe; Charles W. Hoge, Walter Reed Army Institute of Research</p>
JP-03	<p><b>Developing Interpersonal Abilities with Interactive Vignettes</b></p> <p><b>Michelle L. Zbylut</b>, U.S. Army Research Institute; Jason N. Ward, Kansas State University</p>
JP-04	<b>Withdrawn</b>
JP-05	<p><b>Development of a Non-High School Diploma Graduate Pre-enlistment Screening Model to Enhance the Future Force</b></p> <p><b>Leonard A. White</b> and Mark C. Young, U.S. Army Research Institute for the Behavioral and Social Sciences; Eric D. Heggstad, Colorado State University; Stephen Stark, University of South Florida; Fritz Drasgow, University of Illinois; Gene Piskator, U.S. Army Accessions Command</p>
JP-06	<p><b>Protecting Soldiers: Warning Presentation and Retention Under Stress in a Virtual Military Task</b></p> <p><b>Jessica Helmick-Rich</b>, Kelly A. Burke, Tal Oron-Gilad, Jennifer Moore and Peter A. Hancock, University of Central Florida</p>
JP-07	<p><b>The Impact of Induced Stress Upon Multiple-object Tracking: Research in Support of the Cognitive Readiness Initiative</b></p> <p><b>F. Morelli</b> and P. A. Burton, U.S. Army Research Laboratory</p>
JP-08	<p><b>Characterizing Center of Mass and Moment of Inertia of Soldiers' Loads Packed for Combat</b></p> <p><b>Leif Hasselquist</b>, Carolyn K. Bensel, Karen Norton, Louis Piscitelle and Jeffrey M. Schiffman, U.S. Army Natick Soldier Center</p>
JP-09	<p><b>Errors in Shooting Judgment and Performance By Law Enforcement Personnel During a Stressful Training Scenario</b></p> <p><b>James L. Meyerhoff</b>, George A. Saviolakis and Bob Burge, Walter Reed Army Institute of Research; William Norris, Terry Wollert and Valerie Atkins, Federal Law Enforcement Training Center; Charles D. Spielberger, University of South Florida</p>
JP-10	<p><b>Effects of Task Difficulty and Multiple Tasks on Target Guidance</b></p> <p><b>Cleve Mortimer</b>, James Szalma, Mustapha Mouloua and Richard Gilson, University of Central Florida</p>
JP-11	<p><b>Development and Validation of a Video-based Social Knowledge Test for Junior Commissioned Army Officers</b></p> <p><b>R. J. Schneider</b> and J. W. Johnson, Personnel Decisions Research Institutes, Inc.</p>
JP-12	<p><b>The Entry Psychiatric Screen (EPS): A Psychiatric Screening Procedure for Applicants for Military Service</b></p>



	<b>Mark E. Koltko-Rivera</b> , Professional Services Group, Inc.; David W. Niebuhr, Walter Reed Army Institute of Research
JP-13	<b>Monitoring Warfighter's Physical Performance During Sustained Operations Using a Field Expedient Jumping Test</b>  T. T. Welsh, J. A. Alemany, B. C. Nindl, P. N. Frykman, A. P. Tuckow and S. J. Montain, U.S. Army Research Institute of Environmental Medicine
JP-14	<b>Animal Model of Performance Enhancement By Nutritional Supplements with Anti-inflammatory Activity</b>  J. M. Davis, M. D. Carmichael, E. A. Murphy, C. M. Groschwitz, A. Brown, M. R. Zelinski, M. Quig, A. Ghaffar and E. P. Mayer, University of South Carolina; C. P. Dunne, U.S. Army Natick Soldier Center; J. D. Gangemi, Clemson University

[Back to Agenda](#)

**SESSIONS:** [Sensors & Information Processing](#) | [IT/C4ISR](#) | [Advanced Computing & Simulation](#) | [Lethality Technologies](#) | [Unmanned Systems](#) | [Force Protection/Survivability](#) | [Advanced Materials & Manufacturing Technology](#) | [Power & Energy](#) | [Immersive Technology](#) | [Behavioral Sciences & Human Performance](#) | [Biomedical Technologies](#) | [Biotechnology](#) | [Nanotechnology](#) | [Microelectronics and Photonics Technology](#) | [Environmental & Engineering Geosciences](#)




---

| [Overview](#) | [Conference Committees](#) | [Call for Papers](#) | [Exhibits](#) | [Agenda](#) | [Biographies](#) | [Registration](#) | [Media](#) | [Lodging](#) | [Transportation](#) | [Local Attractions](#) | [23rd ASC Highlights](#) |  
**Contact:**  [TMC Design Corp.](#)  757-357-4011