Department of Defense
Human Factors Engineering
Technical Advisory Group
Meeting 66

24-27 October 2011

Host:
U.S. Navy
Vienna, VA
Meeting Theme

Outfitting for the Mission: HFE and HSI in Training and Interface Design

Before embarking on a mission, warfighters must have the right tools to accomplish that mission. These tools consist both of the warfighters’ physical tools (e.g., decision support tools, display technologies, weaponry, etc.) and their cognitive tools (e.g., knowledge, skills, and abilities). Human Factor Engineers (HFE) and Human Systems Integration (HSI) practitioners have an essential role in outfitting the warfighter with both toolsets. By emphasizing human considerations in equipment design – specifically, at the human system interface – these practitioners ensure that warfighters can easily and effectively interact with their physical tools. By developing more effective training technologies, practitioners ensure that warfighters will be able to successfully employ their equipment during mission execution. In recognition of the critical role that interfaces and training play in enabling mission success, the Department of Defense Human Systems Community of Interest (HS CoI) recently selected Training and Interfaces as the top two priority areas for future Science and Technology investments. By selecting these two areas, the HS CoI highlighted the need for HFE and HSI practitioners to provide innovative solutions in these domains in order to enable our forces to capitalize on rapidly evolving technologies and revolutionary changes in our understanding of the science of training and to stay ahead of evolving threats. The purpose of this TAG is to provide a venue in which practitioners can discuss ways to improve interfaces and training systems, thereby guaranteeing that warfighters are properly outfitted, physically, cognitively and technically, to meet future challenges.
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0830</td>
<td>Executive Committee Meeting</td>
</tr>
<tr>
<td>1000</td>
<td>New Member Orientation</td>
</tr>
<tr>
<td>1100</td>
<td>Luncheon Break</td>
</tr>
<tr>
<td>1300</td>
<td>Plenary Session</td>
</tr>
<tr>
<td>1800</td>
<td>Mixer</td>
</tr>
<tr>
<td>1800</td>
<td>Poster Session</td>
</tr>
</tbody>
</table>

**Tuesday, 25 October**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0730</td>
<td>HSIS Continental Breakfast*</td>
</tr>
<tr>
<td>0830</td>
<td>HSIS Welcome*</td>
</tr>
<tr>
<td>0845</td>
<td>HSIS Keynote Speaker*</td>
</tr>
<tr>
<td>0945</td>
<td>HSIS Break &amp; Exhibit Hall Opening*</td>
</tr>
<tr>
<td>1015</td>
<td>Unmanned Systems Interest Group I</td>
</tr>
<tr>
<td>1115</td>
<td>Luncheon Break</td>
</tr>
<tr>
<td>1230</td>
<td>Human Performance Measurement</td>
</tr>
<tr>
<td>1230</td>
<td>Design: Tools and Techniques</td>
</tr>
<tr>
<td>1430</td>
<td>Networking, Coffee</td>
</tr>
<tr>
<td>1500</td>
<td>Controls and Displays</td>
</tr>
<tr>
<td>1500</td>
<td>Human Factors in Training</td>
</tr>
<tr>
<td>1500</td>
<td>Unmanned Systems Interest Group II</td>
</tr>
<tr>
<td>1715</td>
<td>Service Caucuses</td>
</tr>
</tbody>
</table>

**Wednesday, 26 October**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0830</td>
<td>User-Computer Interaction</td>
</tr>
<tr>
<td>0830</td>
<td>Modeling and Simulation I/Cognitive Readiness</td>
</tr>
<tr>
<td>0930</td>
<td>Networking, Coffee</td>
</tr>
<tr>
<td>1100</td>
<td>Luncheon Break</td>
</tr>
<tr>
<td>1230</td>
<td>HFE/HSI: Management and Applications I</td>
</tr>
<tr>
<td>1230</td>
<td>Modeling and Simulation II/III</td>
</tr>
<tr>
<td>1430</td>
<td>Networking, Coffee</td>
</tr>
<tr>
<td>1500</td>
<td>Human Factors Standardization</td>
</tr>
<tr>
<td>1500</td>
<td>HFE/HSI: Management and Applications II</td>
</tr>
<tr>
<td>1800</td>
<td>Social</td>
</tr>
</tbody>
</table>

**Thursday, 27 October**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0830</td>
<td>Human Factors in Extreme Environments I</td>
</tr>
<tr>
<td>0830</td>
<td>System Safety/Health Hazards/Survivability I</td>
</tr>
<tr>
<td>0830</td>
<td>Personnel Selection and Classification I</td>
</tr>
<tr>
<td>0930</td>
<td>Networking, Coffee</td>
</tr>
<tr>
<td>1000</td>
<td>HSIS Closing Keynote*</td>
</tr>
<tr>
<td>1130</td>
<td>System Safety/Health Hazards/Survivability II</td>
</tr>
<tr>
<td>1130</td>
<td>Personnel Selection and Classification II</td>
</tr>
<tr>
<td>1230</td>
<td>Luncheon Break</td>
</tr>
<tr>
<td>1400</td>
<td>Operating Board</td>
</tr>
<tr>
<td>1600</td>
<td>Adjourn</td>
</tr>
</tbody>
</table>

*ALL TAG attendees are welcome to attend the HSIS events identified on the TAG schedule

** The Test & Evaluation subTAG will not meet at TAG-66.
SESSONS

MONDAY, 24 OCTOBER (meeting rooms are subject to change)

Registration for TAG members who are not part of the Executive Committee or new members will begin at noon on the Conference Level.

Executive Committee – 0830 – 1000 – Conference Room 6
Executive Committee members ONLY. Others by invitation of the Chair, CAPT Dylan Schmorrow

New Member Orientation – 1000 – 1100 – Conference Room 6

Luncheon Break – 1100 – 1300

Plenary Session – 1300 – 1700 – Conference Theater

TAG Welcome
- CAPT Dylan Schmorrow
  TAG Chair
  Deputy Director, Human Performance, Training, and BioSystems Research Directorate, Office of the Assistant Secretary of Defense (R&E)

HS Priority Council: Focus on the Future of Training and Interface S&T
- CDR Joseph Cohn and Dr. Jeff Morrison
  Office of Naval Research

Air Force HSI Challenges
- LtCol Valerie Martindale
  Chief Scientist, Human Performance Integration Directorate
  711th Human Performance Wing, Wright-Patterson Air Force Base

Interfaces for the Dismounted Mission
- Dr. Elizabeth (Beth) Redden
  Chief, ARL-HRED
  US Army Infantry Center Field Element, Fort Benning

Potomac Chapter HFES Briefing
- Chris Parker
  Potomac Chapter HFES President Elect,
  BMT Designers and Planners, Inc.

OSD HSI Perspective
- Dr. Patrick Mason
  Director, Human Performance, Training, and BioSystems Research Directorate
  Office of the Assistant Secretary of Defense (R&E)

Networking, Coffee – 1500 – 1530 (subject to change based on break in presentations)

TAG Mixer and Poster Session – 1800 – 2000 – Capital Club (Mezzanine Level)
TUESDAY, 25 OCTOBER (meeting rooms are subject to change)

*ALL TAG attendees are welcome to attend the HSIS events identified on the TAG schedule. Please check in at TAG registration on the Mezzanine Level.

**HSIS Continental Breakfast** – 0730 – 0830 – Lobby Level Pre-function Area

The DoD HFE TAG Registration will be on the Mezzanine Level, but HSIS will be held on the Lobby Level. You MUST be registered and have your TAG badge visible to be allowed to attend the pre-identified HSIS activities. Please plan to check in and register for TAG before attending HSIS.

**HSIS Welcome** – 0830 – 0845 – Grand Ballroom B
- Ronald K. Kiss
  President, ASNE

**HSIS Keynote Speaker** – 0845 – 0945 – Grand Ballroom B
- Trish Hamburger
  NAVSEA Director
  Integrated Warfare Systems and PEO IWS Technical Authority

**HSIS Break & Exhibit Hall Opening** – 0945 – 1000 – Grand Ballroom A

**Unmanned Systems Interest Group, Part I** – 1015 – 1115 – Mezzanine 3

**Setup and Welcome**
- AJ Muralidhar
  Session Chair

**Human Systems Integration Deficiencies: The MQ-1B Predator Unmanned Aerial System**
- Col Randall Gibb
  Air Force Institute of Technology

**Designing for Unmanned Cargo Missions Planning and Execution**
- Sylvain Bruni
  APTIMA

**Luncheon Break** – 1115 – 1230

**Human Performance Measurement** – 1230 – 1430 – Mezzanine 2

**Opening Remarks and Administrative Business**
- LCDR Jefferson D. Grubb
  Naval Air Warfare Center Training Systems Division

**Optimizing Training, Interface Design, and Crew Performance in Air and Ground Operations**
- Kelly R Johnson
  Naval Air Systems Command, Human Systems Division

**Tool for Real-time Intelligent Evaluation of Physiological and Operational Data (TRIEPOD)**
- Michelle Harper
  APRISE, LLC

**Leveraging Human Body-Based Measures to Assess User Productivity in Human-Computer Interactions**
- Gloria Washington
  MITRE Corp.

**Mind the Gap: Bridging Physiology and Psychology in Applied Neuroscience**
- LCDR Jefferson D. Grubb
  Naval Air Warfare Center Training Systems Division
**TUESDAY, 25 OCTOBER (continued)**

**Design: Tools and Techniques – 1230 – 1430 – Mezzanine 3**

Telemmedicine & Advanced Technology Research Center (TATRC)
- J. Harvey Magee
  Technical Director, Simulation & Training Technology, TATRC

Using “Low Tech” Tools in Display/Control Design
- Mary E. Hornsby
  Technical Fellow, The Boeing Company

C3TRACE (Command, Control, and Communication Techniques for Reliable Assessment of Concept Execution)
- Shanell Henry
  Army Research Lab

Task Analysis for Human – Automation Interaction Referred to as the Task Specification Language
- Lance Sherry
  George Mason University

Harnessing the Power of Mental Models for Effective User Interface Design: The Need for a Common, Consistent User Interface Framework in Military Systems
- Susan McDonald
  Research Associate III, SA Technologies, Inc

**Networking, Coffee – 1430 – 1500**

**Controls and Displays – 1500 – 1700 – Mezzanine 2**

Design of a User Interface to Mitigate Cognitive and Physiological Effects of Uncoupled Motion When Remotely Operating a Ground-Based Vehicle
- Jerry Ray
  Human Systems Integration Division, Georgia Tech Research Institute

Utilizing Impenetrable Borders to Improve Helicopter Displays
- LT Brian R. Johnson
  Naval Air Warfare Center Aircraft Division

Displays for Simulation Based Instruction and Assessment
- Bob Pokorny
  Director, Education and Training Technology Intelligent Automation, Inc.

Command and Control Displays: How Many and What Type Contribute to a Better Understanding of the Battlespace?
- Lawrence G. Shattuck, Colonel, U.S. Army, Retired
  Naval Post Graduate School
Human Factors in Training – 1500 – 1700 – Conference Room 6

Air Force HSI Training: Not just a HSI Domain
- Lisa Kaminski; Lt Col Valerie Martindale
  Booz Allen Hamilton; AF 711th HPW/HP

Spatial Disorientation Through the Lens of Human Systems Integration
- Col Randy Gibb
  AFIT

Investigating the Impact of Training on Performance
- Sue Archer
  Alion Science and Technology

Performance Assessments During Simulator-Based Training: The Value of Gaze Tracking & Expert Policy Capture
- Aaron A. Pepe
  Intelligent Automation, Inc.

Adaptive Training for Submarine Piloting and Navigation
- Wendy Van Buskirk
  Naval Air Warfare Center, Training Systems Division

BEETLE II: An Intelligent Tutoring System
- Natalie Steinhauser
  Naval Air Warfare Center Training Systems Division

Unmanned Systems Interest Group, Part II – 1500 – 1700 – Mezzanine 3

Setup and Welcome
- AJ Muralidhar
  Session Chair

Human Systems Integrated Collaborative Approach for HFE and Training Systems - Challenges and Lessons Learned
- Dr. Marcie Langelier
  NAVAIR

Integration of Manned and Unmanned Systems for Carrier Operations
- John Winters
  BCI/NAVAIR

Requirements Analysis for VTUAV Operator Training: Approach, Tools, Results and Recommendations
- LT Lee Sciarini
  NAVAIR

ISR Missions: A Multi-Tasking Problem and an Automation Solution
- Lauren Reinerman-Jones
  University of Central Florida (UCF)

Closing Comments / TAG Business
- AJ Muralidhar
  Session Chair

Session Wrap Up
TUESDAY, 25 OCTOBER (continued)

Technical Society/Industry – 1715 – 1830 – Conference Room 8

Army Caucus – 1715 – 1830 – Conference Room 6

Air Force Caucus – 1715 – 1830 – Mezzanine 3

Navy Caucus – 1715 – 1830 – Mezzanine 2

DHS Caucus – 1715 – 1830 – Mezzanine 5

NASA – 1715 – 1830 – TBD

FAA – 1715 – 1830 – TBD
WEDNESDAY, 26 OCTOBER  (meeting rooms are subject to change)

Modeling and Simulation I/Cognitive Readiness– 0830 – 1100 – Mezzanine 3

Business Meeting
- LT Gregory O. Gibson
  Session Chair

Individual Measures of Cognitive Readiness: Where Do We Currently Stand?
- Cheryl A. Bolstad
  SA Technologies

The Army Cognitive Readiness Assessment (ACRA) System – A Neuroergonomic Approach
- Robert D. O'Donnell, PhD, Col. USAF (Ret.)
  NTI Inc

Team Cognitive Readiness: Theory at Work
- Kara Orvis, PhD; LT Gregory O. Gibson, PhD, MSC, USN
  Aptima; Naval Research Laboratory

Human Behavioral Data for Modeling and Simulation of Human Behavior
- John Riedener; Gordon Cooke; Elizabeth Mezzacappa
  U.S. Army Target Behavioral Response Laboratory

Virtual Locomotion and Avatar Control for Dismounted Infantry Simulation
- James N. Templeman
  Naval Research Laboratory

User-Computer Interaction – 0830 – 1100 – Mezzanine 2

Creating a Human-Robot Language
- Lauren Reinerman-Jones
  University of Central Florida (UCF), Institute for Simulation and Training (IST)

Decision Maker Perception of Information Quality: A Case Study of User-Computer Interaction in Military C2
- Grayson Morgan
  MITRE Corporation

Display SA – Predictive Modeling of Situation Awareness in Interface Design
- Laura Strater
  SA Technologies, Inc

A Research Based Approach to the Development of a Human Factors Based Interface for a Modeling & Simulation Tool to Support National Preparation Efforts
- Pamela McCauley Bush
  Bush Enterprises

Networking, Coffee – 0930 – 1000

Luncheon Break – 1100 – 1230


The Army Health Hazard Assessment Program’s Medical Cost Avoidance Model
- Timothy J. Kluchinsky
  U.S. Army Public Health Command (APHC)

Approaches to Conducting Front End Analysis: Examining Similarities and Differences for Process Improvement
- Lee W. Sciarini
  Naval Air Warfare Center Training Systems Division
WEDNESDAY, 26 OCTOBER (continued)

Human Modeling and Simulation II/III – 1230 – 1700

Travel to the National Capital Area Medical Simulation Center

Tour of the National Capital Area Medical Simulation Center
  - Two Presentations will be given as Part of the Tour

The National Capital Area Medical Simulation Center
  - Gil Muniz, PhD

Virtual Reality Medical Simulators
  - Alan Liu, PhD

Networking, Coffee – 1430 – 1500

Human Factors Standardization – 1500 – 1700 – Mezzanine 3

Introduction of Attendees

Status Reports
  - MIL-STD-1472, Human Engineering
  - MIL-STD-2525, Common Warfighting Symbology
  - FAA Human Factors Design Standard
  - Flight Symbology Working Group
  - MIL-STD-1787, Aircraft Display Symbology
  - Update of Data Item Descriptions
  - Reinstating MIL-STD-46855
  - MIL-STD-1474, Noise Limits
  - Occupant-Centric Survivability
  - HFES
  - Air Force Human Systems Integration Document

Presentations

NIST Human Engineering Design Criteria Standard & Ambulance Standard
  - Katherine Muse-Duma
    DHS/S&T/HFD/Booz Allen Hamilton

U.S. Coast Guard Approach to Human Reliability
  - Shannon Cole
    U.S. Coast Guard

HFE/HSI: Management and Applications, Part II – 1500 – 1700 – Mezzanine 2

Human Systems Integration: Human Performance Technology for System Engineers
  - Mark D. Rutherford
    United States Coast Guard

HSI Execution in Air Force Programs
  - Lisa Kaminski; Carol Blankenship
    Booz Allen Hamilton; Air Force 711th Human Performance Wing
Social – 1800 – 2200
Our social event will be aboard the Admiral Tilp vessel starting at 1800. We will cruise down the Potomac River and see the sights of Washington, D.C. at night. Food and beverages will be available during this wonderful event.

Please meet in the lobby of the Sheraton no later than 1800 to board the charter bus. The cost is $50.00/per person, and cash only is accepted on site. Please be sure to register on our website under the social tab if you are attending. Guests ARE welcome!

Dress is casual and be sure to bring a jacket just in case it gets chilly!
THURSDAY, 27 OCTOBER (meeting rooms are subject to change)

**Human Factors in Extreme Environments – 0830 – 0930 – Mezzanine 2**

Welcome and Overview
- Mihriban Whitmore
  Co-Session Chair

Habitability Assessment: The Effect of Prolonged Waterborne Motion Exposure on Warfighter Performance
- Larry Shattuck
  Naval Postgraduate School

Designing Training and Interfaces for Space Medicine Applications
- Kerry McGuire
  NASA

Open Discussion/Challenge: Fidelity of Analogs for Extreme Environments
- Mihriban Whitmore
  NASA – Johnson Space Center

Session Wrap Up

**System Safety/Health Hazards/Survivability I – 0830 – 0930 – Mezzanine 3**

Modeling Personnel Survivability Using the Operational Requirement-Based Casualty Assessment (ORCA) Model
- Latrice Hall; Tim Myers
  Aberdeen Proving Ground, MD

Difficulty Matching MIL-STD 1472 Physical Exertion Guidance to Materiel Systems
- Don Goddard, Ergonomist
  US Army Institute of Public Health Command, Aberdeen Proving Ground, MD

**Personnel Selection and Classification I – 0830 – 0930 – Conference Room 6**

The Relationship of ASTB Score to Probability of FFPB Appearance
- Jefferson D. Grubb; Henry L. Phillips
  Naval Air Warfare Center, Training Systems Division

The Effects of Age at Accession on Training Attrition and Length of Aviation Service
- Antonio Anglero, Jefferson D. Grubb, and Henry L. Phillips
  Naval Air Warfare Center, Training Systems Division

**Networking, Coffee – 0930 – 1000**

**HSIS Closing Keynote* – 1015 – 1115 – Grand Ballroom B (Lobby Level)**
- Awarding of HSI Lifetime Achievement Award Dr. Michael Drillings and Student Best Paper Award

**System Safety/Health Hazards/Survivability II – 1130 – 1230 – Mezzanine 3**

Reducing Noise Exposure in the Acquisition Process
- Lt Col Valerie Martindale, Chief Scientist
  711 HPW/HP, Wright-Patterson AFB, Ohio

**Personnel Selection and Classification II – 1130 – 1230 – Conference Room 6**

Additional Presentation TBD

**Luncheon Break – 1230 – 1400**

**Operating Board – 1400 – 1600 – Mezzanine 2**

**Adjourn – 1430**
# EXECUTIVE COMMITTEE

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Phone Number</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair (Navy)</td>
<td>CAPT Dylan Schmorrow</td>
<td>(703) 588-7404</td>
<td><a href="mailto:Dylan.schmorrow@osd.mil">Dylan.schmorrow@osd.mil</a></td>
</tr>
<tr>
<td>Vice Chair (Air Force)</td>
<td>Maj Eric Phillips</td>
<td>(937) 938-3831</td>
<td><a href="mailto:Eric.phillips@wpafb.af.mil">Eric.phillips@wpafb.af.mil</a></td>
</tr>
<tr>
<td>Immediate Past Chair (Army)</td>
<td>Dr. Pamela Savage-Knepsheid</td>
<td>(732) 427-3854</td>
<td><a href="mailto:pam.savageknepsheid@us.army.mil">pam.savageknepsheid@us.army.mil</a></td>
</tr>
<tr>
<td>Army Representative</td>
<td>Ms. Dawn Woods</td>
<td>(508) 233-5069</td>
<td><a href="mailto:dawn.woods@us.army.mil">dawn.woods@us.army.mil</a></td>
</tr>
<tr>
<td>Navy Representative</td>
<td>LCDR Jefferson Grubb</td>
<td>(407) 380-4243</td>
<td><a href="mailto:Jeff.grubb@navy.mil">Jeff.grubb@navy.mil</a></td>
</tr>
<tr>
<td>Air Force Representative</td>
<td>Dr. Bill Kosnik</td>
<td>(210) 536-8033</td>
<td><a href="mailto:William.kosnik@brooks.af.mil">William.kosnik@brooks.af.mil</a></td>
</tr>
<tr>
<td>NASA Representative</td>
<td>Ms. Cynthia Null</td>
<td>(650) 604-1260</td>
<td><a href="mailto:Cynthia.h.null@nasa.gov">Cynthia.h.null@nasa.gov</a></td>
</tr>
<tr>
<td>FAA Representative</td>
<td>Dr. Thomas McCloy</td>
<td>(202) 267-7167</td>
<td><a href="mailto:tom.mccloy@faa.gov">tom.mccloy@faa.gov</a></td>
</tr>
<tr>
<td>DHS Representative</td>
<td>Dr. Janae Lockett-Reynolds</td>
<td>(202) 254-6611</td>
<td><a href="mailto:janae.lockett-reynolds@dhs.gov">janae.lockett-reynolds@dhs.gov</a></td>
</tr>
<tr>
<td></td>
<td>Mr. Darren Wilson</td>
<td>(202) 254-6657</td>
<td><a href="mailto:darren.wilson@dhs.gov">darren.wilson@dhs.gov</a></td>
</tr>
<tr>
<td>TAG Coordinator</td>
<td>Ms. Sheryl Cosing</td>
<td>(703) 925-9791</td>
<td><a href="mailto:cosing_sheryl@bah.com">cosing_sheryl@bah.com</a></td>
</tr>
<tr>
<td>Conference Coordinator</td>
<td>Ms. Janet Malone</td>
<td>(937)781-2826</td>
<td><a href="mailto:malone_janet@bah.com">malone_janet@bah.com</a></td>
</tr>
</tbody>
</table>

# SUBTAG CHAIRS

<table>
<thead>
<tr>
<th>Subtag</th>
<th>Chair</th>
<th>Phone Number</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controls and Displays</td>
<td>Ms. Marianne Paulsen</td>
<td>(407) 380-4743</td>
<td><a href="mailto:marianne.paulsen@navy.mil">marianne.paulsen@navy.mil</a></td>
</tr>
<tr>
<td></td>
<td>Maj Keith Higginbotham</td>
<td>(850) 499-7414</td>
<td><a href="mailto:keith.higginbotham@hurlburt.af.mil">keith.higginbotham@hurlburt.af.mil</a></td>
</tr>
<tr>
<td>Design: Tools and Techniques</td>
<td>Mr. Stephen Merriman</td>
<td>(972) 344-2017</td>
<td><a href="mailto:stephen.c.merriman@boeing.com">stephen.c.merriman@boeing.com</a></td>
</tr>
<tr>
<td></td>
<td>Dr. Michael Feary</td>
<td>(650) 604-0203</td>
<td><a href="mailto:Michael.s.feary@nasa.gov">Michael.s.feary@nasa.gov</a></td>
</tr>
<tr>
<td>Human Factors Engineering / Human Systems Integration: Management and Applications</td>
<td>Dr. John Warner</td>
<td>(703) 695-5820 DSN 225</td>
<td><a href="mailto:john.warner1@us.army.mil">john.warner1@us.army.mil</a></td>
</tr>
<tr>
<td></td>
<td>Maj Jeff Scott</td>
<td>(703) 681-6300</td>
<td><a href="mailto:Jeffrey.scott@pentagon.af.mil">Jeffrey.scott@pentagon.af.mil</a></td>
</tr>
</tbody>
</table>
| Human Factors in Extreme Environments | Ms. Mirhiban Whitmore | (281) 244-1004  
mihriban.whitmore-1@nasa.gov |
|--------------------------------------|-----------------------|------------------------------------------------|
|                                      | Ms. Debra Clark-DeTora | (540) 653-7610  
debra.clark-detora@navy.mil |
| Human Factors in Training            | Ms. Beth Atkinson      | (407) 380-4733  
beth.atkinson@navy.mil |
| Human Factors Standardization        | Mr. Alan Poston        | (410) 922-7725  
aposton86@comcast.net |
| Human Factors Test and Evaluation    | Ms. Amanda Bandstra    | (850) 235-5978  
amanda.bandstra@navy.mil |
|                                      | Mr. Darren Cole        | (661) 277-4939  
darren.cole@edwards.af.mil |
| Human Modeling and Simulation        | LT Gregory Gibson      | (202) 767-9004  
gregory.gibson@nrl.navy.mil |
|                                      | Mr. John Rice          | (757) 318-0671  
Johnrice.ssih@noboxes.org |
| Human Performance Measurement       | LCDR Jefferson Grubb   | (407) 380-4243  
Jeff.grubb@navy.mil |
|                                      | Ms. Rahel Rudd         | (937) 255-1675  
Rahel.rudd@wpaFB.af.mil |
| Personnel Selection and Classification | LT Peter B. Walker    | (850) 452-5248  
Peter.b.walker@navy.mil |
| System Safety/Health Hazards/Survivability | Mr. Ben Gibson    | (210) 221-1622  
Ben.gibson@us.army.mil |
|                                      | Mr. John Plaga         | (937) 938-3050, DSN 798-3050  
John.plaga@wpaFB.af.mil |
| Technical Society/Industry          | Ms. Barbara Palmer     | (937) 781-2803  
palmer_barbara@bah.com |
|                                      | Mr. Stephen Merriman   | (972) 344-2017  
Stephen.c.merriman@boeing.com |
| User-Computer Interaction            | Mr. John Taylor        | (850) 234-4515  
John.k.taylor3@navy.mil |
| Cognitive Readiness Interest Group  | Ms. Katrina May        | (410) 278-5856  
DSN 298  
katrina.may@arl.amy.mil |
| Human Factors in Unmanned Systems Interest Group | Mr. Ajoy Muralidhar | (540) 284-0701  
ajoy.muralidhar@navy.mil |