

UASs from a Human Factors Perspective

August 11, 2009

AGENDA

"UASs from a Human Factors Perspective" will consist of two panel sessions. The first panel will include six human factors researchers and the second panel will include UAS operators. Following each panel presentation, there will be a discussion in which panelists are asked to comment on specific issues or respond to select questions that are generated by the moderator and then augmented by questions posed in writing by other workshop participants.

Workshop objectives:

- Provide a forum for interaction between UAS users, designers, developers, industry experts and human factors researchers
- Educate AUVER attendees on human systems integration issues that impact design, training, and safety of the systems
- Provide information on state-of-the-art technologies for UAS training, simulation, and human performance measurement
- Help to educate human factors researchers and practitioners on system issues, capabilities, and constraints

1:00 pm – 1:10 pm **Welcome and Introduction**
Dr. Nancy Cooke – Science Director, CERL
Professor, Arizona State University

1:10 pm – 2:00 pm **Human Factors Researchers Panel**

Some of the issues likely to be discussed include multi-UAV control; display issues, control issues, situation awareness, spatial orientation, standards across platforms, National Air Space integration concerns, and crew coordination issues. The human factors researchers will highlight some examples of research and development contributions from human factors and will identify pressing human factors concerns.

Missy Cummings - Massachusetts Institute of Technology
Mark Draper – Air Force Research Lab
Mike Goodrich – Brigham Young University

Bruce Hunn – Army Research Laboratory
Bill Kaliardos - Federal Aviation Administration
Jay Shively – US Army

2:00 pm – 3:00 pm **Question and Answer Period**

Questions will be prepared ahead of time and solicited in writing from the audience.

3:00 pm - 3:15 pm **Break**

3:15 pm – 4:00 pm **UAS Operators Panel**

This panel will consist of UAS operators from different military services and civilian applications. Operators on the panel will describe their relevant experience and then provide anecdotal evidence and examples that serve to emphasize the human factors issues (e.g., training, displays, controls, teamwork) and their importance. The panelists will provide the audience with the usability of UAS technology from a user's perspective.

Jeff "Goldy" Goldfinger – L-3 Communications; retired Navy
James "Rainman" Hoffman – US Air Force
Jeff Huddleston – Global UAS Services, principal; retired Navy
Chris Jella – MITRE, retired US Air Force

Matt Martin - USAF ACC Chief of the Armed ISR Ops Branch
Robin Murphy - civilian search and rescue, Texas A & M
Stephen Rayleigh - Army UAS Specialist
Dave Sliwa – Insitu, Inc.

4:00 pm – 5:00 pm **Question and Answer Period**

Questions will be prepared ahead of time and solicited in writing from the audience.