

Workshop

Human Factors of Unmanned Aerial Vehicles



“Manning the Unmanned”



Location: Sheraton San Marcos, Chandler, AZ

Dates: May 24–25, 2004

Workshop Co-Chairs: Nancy J. Cooke, Ph.D. (ncooke@asu.edu) and Major Heather L. Pringle, Ph.D. (Heather.Pringle@mesa.afmc.af.mil)

Workshop Sponsors: Air Force Research Laboratory, NASA Ames, Air Force Office of Scientific Research

Workshop Host: Cognitive Engineering Research Institute, Mesa, AZ

Workshop Objective: The term “unmanned” is misleading when used in the context of UAVs (Unmanned Aerial Vehicles). UAV operations involve plenty of people ranging from those in the UAV ground control station and Air Operations Center to those in nearby manned aircraft. Analogies of UAV operations to *manned flight* or *air traffic control* tasks misrepresent the complexity of UAV operations. Trends toward reduced staffing of operations, increased number of vehicles to control, and integration with other air operations and combat functions are all associated with critical human factors issues. The objective of this workshop is to unite the human factors research community with the UAV

operational community and UAV developers to identify the critical human factors challenges associated with UAV operations.

Call for Papers: The workshop is open to the public. Early registration is requested. Forums will be available for presentation of a limited number of lectures, demonstrations, or posters, with a potential publication venue for those interested. Those wishing to present at the workshop should submit abstracts (500 words) by February 15, 2004. We especially encourage presentations on the following topics:

- The challenges of UAV operations
- Ground control of multiple UAVs: workload, situation awareness
- Staffing UAV operations: individual, team, or team of team task
- UAV command-and-control/mission management: issues of team coordination and information management
- Perceptual issues in remote control of UAVs
- Perceptual and cognitive issues in UAV sensor operation
- UAV integration into air operations
- Training for UAV operations
- Sustained operations and UAVs
- Design constraints and challenges

Deadlines:

February 15, 2004	Submit 500 word abstracts
March 15, 2004	Speakers selected and notified
April 15, 2004	Deadline to reserve rooms at conference rate
April 28, 2004	Presentation materials due from speakers
April 28, 2004	Early registration deadline (\$40 fee)

To register, submit an abstract, or for more information please go to <http://www.cerici.com/>

