



AAR-100

Human Factors Newsletter # 00-10

(May 13, 2000 – May 26, 2000)

- **Workshop on Questionnaire/Survey Design:** AAR-100 presented a one-day workshop at FAA Headquarters and at the William J. Hughes Technical Center for people involved or interested in the design and development of questionnaires and surveys. Presented by Dr. William F. Moroney, Associate Professor of Psychology at the University of Dayton, Dayton, OH, this six-hour workshop provided practitioners a primer for designing questionnaires. Participants were introduced to critical issues, common problems, and proper guidelines related to the design and analysis of surveys and questionnaires. Practical exercises provided a working knowledge of what to look for and how to fix questionnaires and surveys. (G. Hewitt, AAR-100)
- **Telecommunications Latency:** Human Factors support was provided to a recent meeting of an ARN-sponsored telecommunications focus group. The group is addressing the scope of the requirements and will set the stage for a subsequent requirements team. This Pre-IRT meeting addressed the many issues (e.g., new technology, quality of service, security, human performance) related to establishing NAS latency requirements for systems (individually) and for the services that systems provide. (G. Hewitt, Alan Poston, AAR-100)
- **ICAO Human Factors Study Group:** Human Factors researchers traveled to Montreal to participate in the International Civil Aviation Organization (ICAO) Flight Safety and Human Factors (HF) Study Group. ICAO produces several types of guidance for the contracting states. Amendments to standing documents are the most difficult to change. The HF study group worked on proposals to amend PANS-OPS for Air Navigation by adding (1) HF for crew briefings, (2) surface movement, and (3) read back clearances. The group drafted guidance material for either circulars or guides on Cabin Safety and on Safety Markers. These documents will be formalized within the next year. The study group is also working to develop methods to oversee regulators in the contracting states. Participants in the Human Factors study group represented: FAA, Cathay Pacific, Canadian Transportation Board, Air Canada, All Nippon, JAL, IATA, IFALFA, and CAA. (E. Edens, AAR-100)
- **Checkpoint of the Future:** AAR-510 held a kickoff meeting for Human Factors Functional Requirements for the Checkpoint of the Future. Carlow International, Incorporated, was awarded a contract to develop a human factors operational requirements document, which

identifies current technology and defines the process for synthesizing human factors considerations/requirements into the development or system acquisition process. The period of performance for this effort runs through September 16, 2000. (G. Embrey, AAR-3)

- **Dual View Test and Evaluation Report:** The Aviation Security Human Factors Program (AAR-510) received a draft copy of the Test and Evaluation Report for the Dual View Study conducted from April 10 through April 21. The report is being circulated to members of AAR-510 for comments. (G. Embrey, AAR-3)
- **AT-SAFE:** Data collection for the Congressionally mandated Air Traffic Shift Work and Fatigue Evaluation (AT-SAFE) project at the Pittsburgh, PA tower was successfully completed. Support was provided by CAMI personnel, contract employees (OMNI Corp.), and employees from the University of Pittsburgh. The efforts made by the Pittsburgh Tower staff, ATCS's who volunteered to participate in the study, and those present at the completion of the study, were recognized and appreciated. (C. Lowman, CAMI)
- **Aerospace Medical Association Meeting:** CAMI personnel from the Human Resources Research Division (HRRD) participated in the 71st Annual Scientific Meeting of the Aerospace Medical Association that was held in Houston, TX. HRRD personnel made 15 scientific presentations and served as chairs/co-chairs for six of the scientific sessions. Attendees included: Dr. Larry Bailey, Dr. Michael Heil, Dr. Kurt Joseph, Dr. Carol Manning, Dr. Henry Mertens, Dr. Thomas Nesthus, Dr. Veronica Prinzo, Dr. David Schroeder, Dr. Scott Shappell, Ms. Melanie Hawkins, Ms. Elaine Pfleiderer, and Ms. Alfretria Scarborough. It was announced during the meeting that Dr. Scott Shappell was the newly elected present-elect of the Aerospace Human Factors Association. (C. Lowman, CAMI)
- **Turbulence JSAT:** CAMI representatives participated in the Turbulence Joint Safety Analysis Team (JSAT) meeting that was held in Kansas City, MO. Intervention strategies were completed and a final ranking of each strategy was begun. The ranking process will be completed at the next JSAT meeting in June. (K. Williams, CAMI)

More information on human factors research can be found at the FAA Human Factors (AAR-100) web site <http://www.hf.faa.gov>

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June 3, 2000- AOPA Fly-In and Open House, AOPA Headquarters, Frederick, MD
<http://www.aopa.org/special/fly-in/2000/>

June 6-8, 2000- Digital Human Modeling for Design and Engineering (DHM) Conference and Exposition, Hyatt Regency, Dearborn, MI <http://www.sae.org/calendar/dhm00/index.htm>

June 7-8, 2000- Autoflight Industry Workshop, DoubleTree Hotel, Denver, CO e-mail:
seamster@qwestinternet.net

June 13-16, 2000- 3rd International Air Traffic Management R&D Seminar, “ATM-2000”, Napoli, Italy <http://atm-seminar-2000.eurocontrol.fr>

June 14-15, 2000- Fourth GAIN World Conference, Le Meridien Montparnasse Hotel, Paris, France <http://www.asy.faa.gov/gain/conferences/gain4/gain4info.html>

June 20-22, 2000- Threats, Countermeasures, and Situational Awareness: Teaming for Survivability, The Virginia Beach Pavilion and Convention Center, Virginia Beach, VA
http://corp-nt20.nawcad.navy.mil/nawcad/news/sit_aware/2000/

July 30 – August 4, 2000- 14th Triennial Congress of the International Ergonomics Association and the Human Factors and Ergonomics Society 44th Annual Meeting “IEA 2000/HFES 2000”, San Diego Marriott Hotel and Marina, San Diego, CA <http://iea2000.hfes.org/>

August 27-September 1, 2000- 22nd International Council of the Aeronautical Sciences (ICAS) Congress, Harrogate, UK <http://www.aiaa.org/calendar/icas00cfp.html>

October 10-12, 2000- World Aviation Congress and Exposition, Town and Country Hotel, San Diego, CA <http://www.sae.org/calendar/wac00/index.htm>

October 15-19, 2000- Human Performance, Situation Awareness & Automation: User-Centered Design for a New Millennium, Marriott Riverfront, Savannah, GA
<http://www.ie.msstate.edu/hpsaa/index.html>

Note: Calendar events in Italics are new since the last Newsletter



Comments or questions regarding this newsletter?
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