



AAR-100

Human Factors Newsletter # 00-01

(December 18, 1999 – January 7, 2000)

- **AMS Revision:** AMS was recently revised to include Risk Management Policy as a new policy section: paragraph 2.9.14 Risk Management. The revision uses human factors as one of the five examples to illustrate key elements of risk management and suggests that "human factors risk management shall ensure effective human/system interaction and performance. Human issues such as usability, operational suitability, personnel and training costs, and user performance must be evaluated during mission analysis and investment analysis as agency needs are defined and candidate solutions are evaluated. During solution implementation, human factors must be fully integrated into planning and execution of the overall program to foster safe, effective human/product performance and ensure user acceptance of the final product." (G. Hewitt, AAR-100)
- **Air Carrier Training Research:** AAR-100 held the first meeting of the Technical Advisory Board for the Pilot Perceptions of Air Carrier Training Programs research project on Wednesday January 5th. The board is made up of industry and labor representatives, FAA sponsors, and AAR-100 representatives. The group will advise the research team as they conduct this large-scale survey. It is planned that the survey will be distributed to pilots from the top 25 air carriers and top 4 cargo carriers. (E. Edens, AAR-100)
- **Electronic Flight Bags (EFBs):** Volpe Center staff and Battelle contractor staff attended a meeting of the Air Transport Association Digital Data Working Group in Charlotte, NC. They obtained feedback on the preliminary draft of a human factors tool for assessment of EFBs. The purpose of the document is to serve as a starting point for creating an assessment tool that will be used by the FAA, users, and designers in evaluating the human factors aspects of EFB functions. An updated document will be presented at the next meeting of the committee in March 2000. (D. Chandra, VNTSC)
- **Simulator Fidelity:** A researcher from the Volpe Center has been invited to organize one of the Human Factors Workshops held at the annual Transportation Research Board Meeting. Workshop participants will discuss issues, considerations, and research tools for validation of simulators in all modes of transportation and for applications ranging from training and evaluation to research and engineering. (J. Burki-Cohen, VNTSC)
- **Realistic Radio Communications Simulation:** A researcher from the Volpe Center has

been invited to give a presentation on “Realistic Radio Communications in Pilot Simulator Training” at the SAE-G10 Aerospace Behavioral Engineering Technology and Subcommittee Meeting Plenary session. The presenter will report on a survey of airline instructors/evaluators on current practices of airlines regarding radio communications simulation, as well as on opinions on the role of realistic radio communications in pilot training. The conclusions drawn from a review of the training literature on this subject will be discussed. Technologies that may support an automatic presentation of radio communications without instructor participation will also be discussed. The goal of this project is to determine the requirement for realistic radio communications during pilot training and evaluation in the flight simulator. (J. Burki-Cohen, VNTSC)

- **ATC Human Factors Booklet:** *Human Factors for Air Traffic Control Specialists: A User’s Manual for your Brain* will be available for distribution in February, 2000. This booklet was developed to bring the results of human factors research to air traffic controllers in a format that is fun and easy to read. After the publication of *Human Factors in the Design and Evaluation of Air Traffic Control Systems* (DOT/FAA/95), controllers requested human factors information designed to help them do their job better. This document was conceived and produced by the Volpe Center and was a collaborative effort of Volpe, the William J. Hughes Technical Center, CAMI, and NATCA. Distribution of the document will be sponsored in part by the Air Traffic Control Association. (K. Cardosi, VNTSC)
- **GA Weather JSIT:** CAMI participated in the GA Weather JSIT meeting in Alexandria, VA. The JSIT revised and completed its Final Report, which was sent to the GA Joint Steering Committee. The committee will discuss the report during its next meeting. (K. Joseph, CAMI)
- **Radio Technical Commission for Aeronautics (RTCA) Special Committee 195:** A CAMI representative participated in and co-chaired a meeting of the RTCA Special Committee 195-Working-group 1- on weather displays. Current progress of the working-group was briefed to the plenary group and plans for continued activities were discussed. (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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March 6-8, 2000- Flight Safety Foundation, 12th Annual European Aviation Safety Seminar, Grand Hotel Krasnapolsky, Amsterdam

March 28-30, 2000- 14th Annual Human Factors in Aviation Maintenance Symposium, “Safety Management: Theory to Practice”, Waterfront Centre Hotel, Vancouver, British Columbia, Canada <http://www.tc.gc.ca/aviation/mainten/aarpc/hfiam.htm> e-mail: boothbj@tc.gc.ca

April 1-6, 2000- Conference on Human Factors in Computing Systems, “CHI 2000”, The Hague, The Netherlands <http://www.acm.org/sigchi/chi2000> e-mail: CHI2000-office@acm.org

April 11-13, 2000- Advances in Aviation Safety Conference and Exposition, Adams Mark Hotel, Daytona Beach, FL <http://www.sae.org/calendar/aas00tag.htm> email: jimb@sae.org

April 25–27, 2000- 45th Corporate Aviation Safety Seminar (CASS), The Adam’s Mark Hotel, San Antonio, TX http://www.flightsafety.org/cass00_cfp.html

May 9-11, 2000- General Aviation Technology Conference and Exposition, Century II Convention Center, Wichita, KS <http://www.sae.org/calendar/gat00/index.htm>

May 10-12, 2000- 3rd International Conference on Nonlinear Problems in Aviation and Aerospace, Daytona Beach, FL <http://students.db.erau.edu/~siva/conference.html>

May 15-18, 2000- 4th Joint DOD/FAA/NASA Conference on Aging Aircraft, St. Louis, MO <http://www.aging2000.com>

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

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 44rd 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>

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



Comments or questions regarding this newsletter?
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