



AAR-100

Human Factors Newsletter # 01-17

(September 2, 2001 – September 14, 2001)

Standard Terminal Automation Replacement System (STARS): Engineering Research Psychologists from the William J. Hughes Technical Center (ACT-530) conducted the STARS Full Service (FS-2) Airway Facilities (AF) Computer Human Interface (CHI) Validation. The primary CHI change to the AF interface from earlier versions of the STARS software was in Data Reduction and Analysis (DR&A). User participants reviewed the interface and generated reports by using the DR&A functions. They made several recommendations for improving the readability of the reports. The recommended changes will be raised as System Trouble Reports for implementation in the system. (T. Yuditsky, K. Allendoerfer, WJHTC)

Airway Facilities Job Analysis: Three CAMI researchers traveled to Salt Lake City, Utah August 20-24, 2001 to attend a meeting of the subject matter expert (SME) panels for the research project entitled Job Analysis of the Airway Facilities 2101 Electronic Position. North American Business Management contractors facilitated the panels. The purpose of the panels is to receive expert opinion about the KSAO's and tasks required to perform the job. One additional meeting is planned for Job Analysis SME panels for the 2101 position. This meeting will take place in Dallas/Fort Worth the week of September 24-28, 2001. (D. Broach, M. Hawkins, & C. Williams, CAMI)

Tour of Laboratories by Japanese Researcher: Mr. Kota Kageyama of the Electronic Navigation Research Institute (ENRI) in Japan's Ministry of Transport was escorted in a tour of several en route, terminal, and tower simulation laboratories as well as the Target Generation Facility at the William J. Hughes Technical Center. Mr. Kageyama was briefed on human factors research and acquisition activities, and gave a presentation on simulations at ENRI including electronic flight strips and arrival sequencing decision aiding. Mr. Kageyama is completing an assignment at the Embrey Riddle Aeronautical University in Daytona Beach, FL and will be involved in controller-in-the-loop simulations at ENRI upon his return to Japan. (P. Krois, AAR-100)

Program Review: On Thursday September 6th, representatives from the William J. Hughes Technical Center/ACT-530 held a program review of all research projects currently in progress. The review covered both the concept research in air traffic and airways facilities and all of the many acquisition support studies. These are studies specifically geared towards the needs of the IPTs and affiliated organizations. Representatives from ARQ, AOP and AAR-100 attended. The agenda was very ambitious and ACT-530 researchers managed to cover it all. Participants were

able to get an early look at the data link interface that is operating on the "DESIRE" simulator for a future study. They also saw graphic presentations of the multi-sector planning simulation that have just been completed. ACT-510 provided a brief tour of the human factors research laboratory's rapid prototyping capability. This ended a very busy but productive day. (Earl Stein, WJHTC/ACT-530)

Aviation Security Human Factors:

- **Aviation Security Panel Review:** Representatives of the Aviation Security Human Factors Program (AAR-510), along with FAA Headquarters personnel from Civil Aviation Security (ACS), Civil Aviation Security Operations (ACO), and Civil Aviation Security Policy (ACP) met to discuss the status of current projects and to plan for efforts in FY02. (C. George, AAR-1)
- **Cargo Training Kickoff Meeting:** Representatives of the Aviation Security Human Factors Program (AAR-510) participated in a meeting with Star Mountain, Incorporated, of Alexandria, Virginia. This meeting served as a kickoff for an effort to develop advanced videotape and computer-based training for cargo screeners to further enhance their effectiveness to identify threats to civil aviation. (C. George, AAR-1)
- **Preliminary Free Flow Meeting:** Representatives of the Aviation Security Human Factors Program (AAR-510) attended a preliminary meeting to discuss the concept of aviation security free flow with industry representatives, which included air carriers, equipment vendors, aviation consultants, and airport operators. A follow-on meeting is planned for late September to discuss the concept in greater detail and to prepare a draft concept document. (C. George, AAR-1)

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

Mark D. Rodgers
FAA (AAR-100)



September 16-20, 2001 – 49th International Congress of Aviation and Space Medicine, Geneva, Switzerland <http://icasm2001.org/>

September 17-19, 2001 – SAFE Association Symposium on Safety, Survival and Flight Equipment, Opryland Hotel, Nashville, TN <http://www.safeassociation.com/>

September 18-20, 2001 – NBAA Annual Meeting and Convention, New Orleans, LA <http://www.nbaa.org/>

September 25-26, 2001 – 18th Annual ALPA Communications for Safety Conference, Doubletree Hotel, Denver, CO <http://safety.natca.net/>

September 25-27, 2001 – FAA Los Angeles Aircraft Certification Office's 18th Annual Flight Test & Systems DER Conference, Golden Sail, Long Beach, CA <mailto:Thomas.Phan@faa.gov>

September 26-28, 2001 – Human Issues in Aviation Systems Symposium, Toulouse, France <mailto:wise@db.erau.edu>

October 1-4, 2001 – National Business Aviation Association's 54th Annual Meeting & Convention, Washington, DC <http://www.nbaa.com/>

October 8-12, 2001 – Human Factors and Ergonomics Society 45th Annual Meeting, Human Factors/Ergonomics: It Works, Minneapolis, MN <http://www.hfes.org/>

October 10-12, 2001 – Shephard Group's Night Vision USA, Crystal Gateway Hotel, Crystal City, VA <mailto:sf@shephard.co.uk>

October 14-18, 2001 – Aerospace Expo 2001, Los Angeles Convention Center, Los Angeles, CA <http://www.aviationnow.com/conferences>

October 22-25, 2001 - Annual Cabin Safety Research Technical Group Meeting, Taj Mahal Hotel and Casino, Atlantic City, NJ

October 22-25, 2001 - DOD Technical Advisory Group Meeting, San Diego, CA <http://dticam.dtic.mil/hftag/>

October 30-31, 2001 – FAA Research, Engineering and Development Advisory Committee (REDAC) meeting, Washington, DC <mailto:tom.proeschel@faa.gov>

October 31-November 2, 2001 – Air Cargo Americas 2001, Sixth International Congress and Exhibition, Radisson Center, Miami, FL <http://www.worldtrade.org/>

November 4-8, 2001 – ATCA 46th Annual International Program & Exhibits, Washington Convention Center, Wash, D.C. <http://atca.org/>

November 5-8, 2001 – Joint meeting of the Flight Safety Foundation 54th International Air Safety Seminar, the International Federation of Airworthiness 31st Conference, and International Air Transport Association. Theme: Keeping People Safe in a Global Environment. Athens, Greece <http://www.flightsafety.org/>

November 8-10, 2001 – AOPA Expo 2001, Fort Lauderdale, FL <http://aopa.org/expo>

November 27-30, 2001 - The Third International Aviation Security Technology Symposium, Tropicana Resort & Casino, Atlantic City, NJ, sponsored by the FAA Aviation Security R&D Division and National Safe Skies Alliance. Symposium topics include: Trace Detection, Bulk

Detection, Human Factors, Technical Integration, Operational Testing and Evaluation, Deployment, Aircraft Hardening, Emerging Technologies, and other related topics.
http://www.safeskiesinternational.org/symposium_2001.htm

December 3-5, 2001 – MRO Asia 2001, Regal Hotel, Hong Kong
<http://www.aviationnow.com/conferences>

December 3-7, 2001 – FAA/EUROCONTROL Air Traffic Management R&D Seminar, Santa Fe, New Mexico <http://atm2001.eurocontrol.fr>

December 10-11, 2001 – FAA/EUROCONTROL R&D Committee Meeting, Santa Fe, New Mexico <http://atm2001.eurocontrol.fr>

February 26-March 3, 2002 – Air Freight Expo 2002, Shangri-La Hotel, Singapore
<http://www.eyefortransport.com/asia2001>

March 2002 – European Transportation Leaders Conference, Landmark Hotel, London
<http://www.aviationnow.com/conferences>

April 9-11, 2002 – Maintenance, Repair and Overhaul Conference & Exhibition, Phoenix Convention Center, Phoenix, AZ <http://www.aviationnow.com/conferences>

May 5-9, 2002 – 73rd Annual Scientific Meeting of the Aerospace Medical Association, Queen Elizabeth's Hotel, Montreal, Canada <http://www.asma.org/>

September 23-27, 2002 – Human Factors and Ergonomics Society 46th Annual Meeting, Pittsburgh, PA <http://www.hfes.org/>

April 7-27, 2003 – Aviation World's Fair, Newport News/Williamsburg, VA
<http://www.worlds-fair.com/>

May 4-9, 2003 – 74th Annual Scientific Meeting of the Aerospace Medical Association, Convention Center, San Antonio, TX <http://www.asma.org/>

May 2-7, 2004 – 75th Annual Scientific Meeting of the Aerospace Medical Association, Egan Convention Center, Anchorage, AK <http://www.asma.org/>

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



Comments or questions regarding this newsletter?
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