



AAR-100

Human Factors Newsletter # 01-02

(January 13, 2000 – January 26, 2001)

Child Passenger Safety: The DOT Seatbelt Flagship announces Child Passenger Safety Week to be observed Feb 11-17, 2001. Child Passenger Safety Week information is on the web at: <http://www.nhtsa.dot.gov/people/injury/childps/> (B. Berger, AAR-100)

STARS: The William J. Hughes Technical Center's Human Factors Laboratory hosted a meeting of the Standard Terminal Automation Replacement System (STARS) Air Traffic Computer-Human Interface (CHI) Working Group. This meeting was held to develop a draft CHI plan for the display of advanced weather products on STARS. These products include windshear, microbursts, storm cell motion, and gust fronts. The group viewed CHI prototypes developed at the Technical Center and made modifications to better suit the controllers' needs and to make the information easy to use while not interfering with the existing STARS traffic information. The CHI prototypes will continue to be improved and will eventually be used in a late 2001 simulation activity. The new weather information is part of the STARS Pre-planned Product Improvement (P3I) program and is scheduled to be deployed in the 2003 timeframe. (K. Allendoerfer, WJHTC)

AFSS Voice Switch: Researchers at the William J. Hughes Technical Center's human factors laboratory hosted two engineers from NAV Canada who are developing new automation and communication equipment for NAV Canada's Flight Information Centers (very similar to the FAA's Automated Flight Service Stations, AFSS). Included was a demonstration of the computer-human interface (CHI) prototype of the AFSS Voice Switch (AFSSVS) developed and assessed by the Technical Center for AND-320. The AFSSVS replaces the systems used by flight service specialists to communicate with pilots and with other FAA facilities. The CHI prototype is touch screen based, and demonstrates the important aspects of the system while allowing users to interact with and provide feedback on the CHI design. There was also a discussion and demonstration of two other AFSS projects in which the Technical Center has been involved, CHI development of the Operational and Supportability Implementation System (OASIS), and the new AFSS consoles. (K. Allendoerfer, WJHTC).

Shiftwork and Fatigue: A CAMI researcher attended a meeting with the Article 55 Team at the U.S. Naval Submarine Base at Point Loma, CA. earlier this month. Among other agenda items, progress was made in revising the Shiftwork and Fatigue Survey results-pamphlet to be printed

and disseminated by the contractor to all ATCSs. The final draft of this pamphlet will be reviewed by the "team" one more time, via e-mail, before printing. (T. Nesthus, CAMI)

Employee Attitude Survey: Research staff at CAMI completed analysis of the overall (FAA-wide) results of the Employee Attitude Survey 2000. The draft briefing for the FAA Management Board was reviewed by AVR-1, AAM-1, and representatives from AHR in a pre-briefing. AAM-500 will present the overall FAA results to the Management Board on January 24, 2001, followed by a briefing to the National Partnership Council the week of February 5, 2001. Reports for each line-of-business and/or major workforce will be completed and distributed by February 21, 2001. (D. Broach, CAMI)

Air Carrier Training: Representatives from AAR-100 and AFS-230 met with human factors researchers from Volpe National Transportation Systems Center, NASA, University of Texas, University of Central Florida, George Mason University, University of New Mexico, American Institutes for Research, Battelle Memorial Institute, contractors, and industry to review the status of air carrier training human factors research. Topics of discussion included: instructor/evaluator evaluation and calibration, threat and error modeling/management, knowledge and skill assessment, proceduralized crew resource management, advanced automation use issues, simulator fidelity requirements, automation skills, future training models, skill maintenance and reacquisition training, Advanced Qualification Program pilot survey, developing operating documents, risk assessment, decision-making, interruptions and distractions in the cockpit, and pilot performance predictor modeling. The meeting was attended by twenty-five researchers and afforded all the opportunity to share research results, identify linkages between research projects, and plan future research activities. (E. Edens, AAR-100)

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)



February 22-23, 2001 – 2001 Aviation Maintenance Training Conference, Toulouse, France
<http://www.avex-online.com/>

February 22-23, 2001 – Human Factors for Aviation Technicians Workshop. Atlanta, GA
<http://www.greyowl.com>

March 5-8, 2001 – 11th International Symposium on Aviation Psychology, Columbus, OH
<http://aviation.eng.ohio-state.edu/sympos/11th/index.htm>

March 13-15, 2001 – The Advanced Technology Electronic Defense Systems Conference and The Tactical Situational Awareness Symposium, Shelter Pointe Hotel and Marina on Shelter Island, San Diego, CA [mail to: AssenmacheTJ@navair.navy.mil](mailto:AssenmacheTJ@navair.navy.mil)

March 18-20, 2001 – National Aviation Environmental Conference, Dallas, TX
<http://www.airportnet.org/>

March 21-23, 2001 – International Symposium on Smart Graphics, Hawthorne, NY
<http://www.smartgraphics.org/>

March 27-29, 2001- The Fifteenth Symposium on Human Factors in Aviation Maintenance, The Brewery Conference Centre, London, UK [mail to: enquiries@conferenceconsultancy.com](mailto:enquiries@conferenceconsultancy.com)

March 31 – April 5, 2001- CHI 2001, Seattle, WA <http://www.acm.org/chi2001>

April 3-5, 2001 – Maintenance Repair and Overhaul Conference and Exhibition, Dallas, TX
<http://www.aviationnow.com/>

April 8-14, 2001 – Sun ‘n Fun EAA Fly-In, Lakeland, FL <http://www.sun-n-fun.com/>

April 24-26, 2001 – 46th Annual Corporate Aviation Safety Seminar, Orlando, FL
<http://www.nbaa.org/>

April 30-May 2, 2001- Regional Airline Association Convention, Tampa, FL
<http://www.raa.org/>

May 3-4, 2001 – Human Factors for Aviation Technicians Workshop, Long Beach, CA
<http://www.greyowl.com>

May 14-17, 2001 – DOD Technical Advisory Group Meeting, Antler’s Adam’s Mark Hotel, Colorado Springs, CO <http://dticam.dtic.mil/hftag/>

June 3-8, 2001- Society for Information Display, International Symposium, Seminar & Exhibition, San Jose Convention Center, San Jose, CA [mail to: pdrzaic@elink.com](mailto:pdrzaic@elink.com)

June 17-24, 2001 – Paris Air Show, Le Bourget, France <http://www.promosalons.com/>

July 8-11, 2001 – ATCA 12th Annual International Technical Conference & Exhibition, Conrad International Hotel, Dublin, Ireland <http://www.atca.org/>

August 5-10, 2001 – 9th International Conference on Human-Computer Interaction, New Orleans, LA <http://hci2001.engr.wisc.edu/>

September 10-14, 2001 – Aerospace Congress & Exhibition By Aerospace North America and SAE, Washington State Convention and Trade Center, Seattle, WA [mail to:kthomson@sae.org](mailto:kthomson@sae.org)

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

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

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

November, 2001 – DOD Technical Advisory Group Meeting, San Diego, CA
<http://dticam.dtic.mil/hftag/>

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

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

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

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



Comments or questions regarding this newsletter?
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