Committee for a Study of the Technical Feasibility of Wheelchair Restraint Systems in Passenger Aircraft

Second Meeting

Speaker Bios

William Ammer, Owner, Ammer Consulting

Mr. Ammer specializes in unique solutions for design problems encountered by those with disabilities. He currently sits on both the ANSI/RESNA and ISO committees for Wheelchair Standards, as well as the ANSI/RESNA Technical Standards Board. For the past 35 years, he has worked for a number of major corporations holding positions in facilities management, manufacturing, design, and project management. Mr. Ammer graduated from the Pennsylvania State University with a degree in Industrial Engineering.

Jonathan Duvall, Postdoctoral Researcher, Human Engineering Research Laboratories, University of Pittsburgh

Dr. Jonathan Duvall is a postdoctoral researcher at the University of Pittsburgh in the Human Engineering Research Laboratories. Dr. Duvall's is experienced in the design and evaluation of assistive technology and scientific research to increase the independence and quality of life for people with disabilities. He also co-founded PathVu, which evaluates and maps sidewalks and other pedestrian pathways for accessibility. He received a bachelor's in Mechanical Engineering, a master's in Rehabilitation Science and Technology, and a PhD in Rehabilitation Sciences, all from the University of Pittsburgh.

Nichole Orton, Senior Engineering Research Associate, University of Michigan Transportation Research Institute

Nichole Ritchie Orton joined UMTRI is research area senior specialist in the Biosciences Group, and lead engineer in the UMTRI sled-impact facility. Orton's research focuses on impact biomechanics. She supervises all aspects of sled-impact testing (equipment set up, data collection, and reporting) of wheelchairs, child restraints and other safety devices to current federal and industry standards using anthropomorphic test devices (ATDs). She also performs biomechanical testing to measure injury response to vertical loading in support of blast dummy development and to optimize restraint systems for soldiers in military tactical vehicles. She has experience in the analysis of motor-vehicle crashes and crash databases, laboratory reconstruction of real-world loading events, occupant-anthropometry and posture evaluation, child-passenger-safety issues evaluation, and Madymo crash modeling. Orton serves on the Diversity, Equity and Inclusion Committee at UMTRI and is the secretary of the Committee on Wheelchairs and Transportation (COWHAT). She received an UMTRI Research Excellence Award in 2007. She is a certified child passenger safety instructor, is trained in transporting children with special health care needs, and frequently performs child-seat inspections. She

earned a master's degree in biomedical engineering from the University of Michigan and a bachelor's degree in biosystems engineering from Michigan State University.

Glenn Johnson, Fellow of Industrial Design, Collins Aerospace

Glenn Johnson is Fellow of Industrial Design at Collins Aerospace where he leads activities in this new discipline, which include product aesthetics, user-centered design and consideration of production methods. Previously, Johnson worked in design roles at BAE Systems and Airbus. In 1998, he established the Industrial Design Studio in the Interiors Seating Division at BAE and served as Director of Design from 2006 to 2017. Johnson has helped design several industry-leading products, such as the Endura beverage maker, the Pinnacle and Meridian Seats, the Sukhoi Superjet cabin lining and, most recently, the British Airways Club Suite. Johnson holds over 40 patents in interior systems and seating, and is a Fellow of the Royal Society of Arts. He holds a master's degree from the Royal College of Art in London.

Raki Islam, Vice President, Technical Audit, SAFRAN Seats, and Group Technical Fellow, SAFRAN

Raki Islam is Vice President of Technical Audit at SAFRAN Seats (A Company of Safran Group), and SAFRAN Group Technical Fellow. He has been with the transport airplane cabin industry for 25 years, and has worked in technical and management roles in new product development, design engineering, simulation, certification and testing. He served for eight years as Chairman of the Society of Automotive Engineers (SAE) Aircraft Seat Committee, and received the "2012 Technical Standards Board Outstanding Achievement Award" from SAE International. Mr. Islam worked for 10 years as Federal Aviation Administration Designated Engineering Representative (FAA-DER) for Seat Structure & Flammability.

Hans-Gerhard Giesa, Senior Expert, Human Factors, Airbus

Hans-Gerhard Giesa is the Airbus Senior Expert in the field of Human Factors in Cabin & Cargo. After joining Airbus in 2003, he moved to a combined management and expert position in Cabin & Cargo Human Factors and Security. In 2016, Hans-Gerhard was nominated as the Senior Expert and provides advice and consultancy for technical decisions on ergonomics, comfort, health, usability and operational safety and efficiency. He acts as Airbus focal for topics concerning accessibility of aircraft cabins. Hans-Gerhard holds a doctorate in Human-Machine-Systems from the Technische Universität, Berlin, and has an interdisciplinary background in engineering and psychology.

Gregg Fesenmyer, Managing Director Cabin Experience, American Airlines

Gregg Fesenmyer is Managing Director Cabin Experience within Integrated Operations at American Airlines. In this role, he oversees American's FAA Organization Designation Authorization (ODA) as well as engineering and operations for Interiors, In Flight Entertainment (IFE) and Connectivity. He started his career as an engineer with US Airways (then called USAir) in 1995 progressing through Management with increasing responsibility focusing on Interiors, IFE and Connectivity. He holds a Bachelor of Science degree in Engineering from the University of Pittsburgh.