

Cabin Safety Research Resources for the 21st Century: A New CAMI Emerges

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The Civil Aerospace Medical Institute (CAMI) is the medical certification, education, research, and occupational medicine wing of the Office of Aerospace Medicine (AAM) under the auspices of the Federal Aviation Administration (FAA's) Office of Aviation Safety (AVS). The mission of the Aerospace Medical Research Division of CAMI, located at the Mike Monroney Aeronautical Center (MMAC), in Oklahoma City, OK, is "to develop new and innovative ways to support FAA regulatory and advisory missions to improve the safety of humans in civilian aerospace operations." The Division is organized as two branches: *Bioaeronautical Sciences* personnel perform research activities regarding pilot certification and performance, aircrew health, atmospheric and radiation risk data, and other factors important to aerospace safety. *Protection and Survival* research personnel provide state-of-the-art information, procedures, and equipment evaluations relative to aircraft accident investigation, survivability, health, and security of passengers and crewmembers during normal operations and emergency events. For example, the cabin safety, biodynamics, and aerospace physiology research personnel are key contributors to the development of national and international aviation safety equipment standards and survival procedures. Many of the facilities used by these research personnel are over 50 years old and undergoing replacement through the FAA Aerospace Medical Equipment Needs (AMEN) Facilities & Equipment (F&E) ACAT V technology refresh acquisition effort, including the impact sled and the Aircraft Cabin Research Facility (ACRF). The presentation will update the audience on these developments and the capabilities offered by CAMI as it enhances its research facilities.