The Ninth Triennial International Fire & Cabin Safety Research Conference
Executive Summary

The International Aircraft Fire and Cabin Safety Research Conference was held October 28-31, 2019, in Atlantic City, New Jersey, USA. This marked the ninth time this triennial conference brought hundreds from the international aviation community together to share recent, ongoing, and planned research in the areas of aircraft fire and cabin safety research. The conference theme was Improving Safety Through Data Driven Innovation. Conference sessions included presentations for the areas of: aircraft materials fire safety: material flammability testing, heat flux influence in flammability tests, heat release testing, new test methods; aircraft systems fire safety: engine/APU and cargo compartment halon replacement, battery fires; cargo compartment smoke detection, and powerplant testing; fire research: advanced materials, characterization, and fire modeling; cabin safety: egress, and operations and design; and crash dynamics: injury assessment and criteria, and the F-28 full-scale crash test program.

The 2019 conference was jointly sponsored by the United States Federal Aviation Administration (FAA), the European Union Aviation Safety Agency (EASA), Transport Canada Civil Aviation (TCCA), the Agencia Nacional de Aviacao Civil of Brazil (ANAC), the Civil Aviation Bureau of Japan (JCAB), and the Civil Aviation Authority of Singapore (CAAS). Six hundred forty-five attendees from 25 countries participated in the 2019 conference. Attendees represented airlines, aircraft manufacturers, aircraft interior components manufacturers, cabin safety inspectors, fire suppression systems manufacturers, human factors researchers, computer modelers, regulators, safety researchers, and academics.

Presentations, comments, and input expressed at the Conference and in the 2019 Conference Proceedings are those of the presenters and do not necessarily reflect positions of the organizations represented. The 2019 Conference Proceedings were compiled by the Federal Aviation Administration (FAA) Technical Center Fire Safety Branch, Atlantic City International Airport, New Jersey, USA, and Technology and Management International (TAMI), Toms River, New Jersey, USA. The FAA report number for these electronic proceedings is DOT/FAA/TC-19/49.