

Tim Marker

Biography

1986 Graduate Drexel University, B.S. Mechanical Engineering

1993 Graduate Embry Riddle Aeronautical University, M.S. Aviation Management

Started work at the FAA Technical Center in 1983 as a co-op student; began full-time employment following graduation in 1986.

Tim has been with the FAA since 1983 when he started as a student "co-op". After being hired full time in 1986, he developed an improved test method for cargo liner components, conducted numerous full-scale tests on water spray systems for both the cabin area and the cargo compartments. Designed a test device for simulating an aerosol can explosion used to evaluate non-halon fire suppression agents in cargo compartments. Conducted a full-scale test evaluation of oxygen enhanced cargo fires and developed a combined test apparatus for evaluating the flame resistance of oxygen cylinder overpacks. Designed and constructed a full-scale test rig for evaluating burnthrough resistance improvements, and developed a laboratory-scale burnthrough test for thermal acoustic insulation. Recently ran a series of full-scale tests to evaluate the flammability of magnesium alloy seat components when subjected to a large external fuel fire.

Publications:

More than 30 technical publications, many submitted in professional journals (NFPA, SAMPE, NIST, etc)

More than 20 technical presentations at international conferences.

Appointments:

Task Group Chairperson, Renovation/Repair of Altered Interior Materials Task Group

Task Group Chairperson, Fuselage Burnthrough, Burnthrough Resistance of Thermal Acoustic Insulation

Task Group Chairperson, Fire Detection/Suppression in Hidden Areas

Task Group Chairperson, Flammability of Magnesium Components Used in the Cabin Area

Task Group Chairman of the International Aircraft Materials Fire Test Working Group

Awards:

FAA Technical Publications Award, 1993

Associate Administrator's Award, Aircraft Fire Research & Safety, 1998

Technical Program Award Nominee, 3/1995

Technical Program Award Nominee, 7/2000

ARA Award Recipient, 8/2000 Team Accomplishment

Superior Achievement Award, 7/2000

Article in Atlantic City Press on Research of Aircraft Seats, 5/11/2005

Special Achievement Award, in support of Implementation of Insulation Rule, 8/2007