

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 worked on numerous projects within the Fire Safety Branch over the past 27 years. Among them: he developed an improved test for cargo liner design features, conducted full-scale water mist testing, developed an exploding aerosol can simulator, conducted full-scale tests on oxygen enhanced fires, developed a new flammability standard for oxygen cylinder overpacks, and conducted full-scale tests on burnthrough-resistant insulation, which led to the development of a new a laboratory-scale test method. More recently Tim has conducted full-scale tests on magnesium alloys, and developed a laboratory scale flammability test for magnesium components used in aircraft seat structure.

Tim presently serves as Chairman of the International Aircraft Materials Fire Test Working Group.

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Publications:

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

More than 50 technical presentations at international conferences.

Appointments:

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

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

Task Group Lead, Fire Detection/Suppression in Hidden Areas

Task Group Lead, 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