

**“Operational Factors Contributing to
Fatigue During Flight Operations”**

MALCOLM BRENNER, PH.D.

National Transportation Safety Board

June 17, 2008: Joint Session

Abstract

Since 1993, the NTSB has determined that fatigue contributed to eight airline accidents in the United States involving 250 fatalities. Investigation provided evidence of fatigue-related factors in the accidents that included hours-of-service standards, education, attendance policies, screening and treatment of sleep disorders, rest environments, commuting policies, nutrition, and scheduling policies and practices.

Main Points

- Fatal airline accidents have occurred in which fatigue was a contributing factor.
- Non-regulatory issues were indicated in previous accidents investigations, including issues of pilot education, attendance policies, and treatment of sleep disorders.

A copy of Dr. Malcolm Brenner’s biographical information and presentation slides are provided in Appendix B.