

FEDERAL AVIATION ADMINISTRATION

Center of Excellence for Research in the Intermodal Transport Environment

Established: August, 2004

Technology Areas:

- o Cabin Air Quality Sensor System Development
- o Contamination Mitigation Technology Development
- o Air Quality Incident Analysis
- o Safety and Health Risk Assessments
- o Disease Transmission and Mitigation

Sponsor: FAA Aviation Safety Office of Aerospace Medicine

Web: <http://www.acer-coe.org>

The Federal Aviation Administration (FAA) Administrator announced the establishment of the Center of Excellence (COE) for Airliner Cabin Environment Research (ACER) on August 30, 2004. Recently re-named the COE for Research in the Intermodal Transport Environment (RITE), the Center, in collaboration with the FAA, expanded its scope and now engages in research and development to ensure the safety and health of all human occupants of aircraft as well as other vehicles used in public transportation (e.g., trains, buses, etc.). This partnership seeks to develop tools to understand and mitigate occupant safety and health risks that arise from environmental issues.

The COE conducts research that includes the entire spectrum from applied research through engineering development, prototyping, and testing within the scope of the airliner cabin environment. The scope of this research includes, but is not limited to: development of cabin air quality sensors and sensor systems to detect potential environmental contaminants; evaluation and definition of the distribution of chemical contaminants and infectious disease in airliner cabins; investigation of the health effects of potential contaminants and other aspects of airliner cabin environments.

The Center performs field and laboratory analysis of potential cabin contaminants, assessments of potential methods to mitigate, control and eliminate the effect and/or spread of contaminants and disease, and develops databases with supporting architecture for documentation of contaminants and contaminant incidents on commercial airliners. The future scope of activities may be expanded to other aviation cargo and cabin environmental quality efforts such as large-scale application of sampling/analysis techniques in commercial aviation. COE members and industry affiliates have provided more than \$25.M in matching contributions.

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University Partners:

Auburn University - Executive Lead
Kansas State University - Technical Lead
Harvard University
Purdue University
Boise State University
University of Medicine and Dentistry of New Jersey

University Leads:**Executive Director**

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Industry Affiliates:

ANSYS Inc.
ARA Inc.
Boeing Company
Delta Air Lines
Donaldson Company Inc.
Honeywell
Keddeg Company
Pall Aeropower Corporation
Technical University of Denmark
TSI Inc.

Advisory Board Members:

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Honeywell – Chair, ARA, Boeing, Pall Aeropower Corp. Tony Broderick Consulting,
Centers for Disease Control, Environmental Protection Agency, and AMTRAK.

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