THURSDAY, APRIL 10, 2008

8:15 AM  
**Opening Remarks**  
Chet Spicer, Symposium Chair

8:25 AM  
**SESSION 1: CHEMICAL REACTIONS IN AIRLINER CABINS**

Session Chair: Chet Spicer  
SpiceAir Consulting  
Columbus, Ohio, USA

8:30 AM  
**Keynote Address: Ozone in the Cabin Environment -- New Insights from Recent Studies**  
W. W. Nazaroff, University of California, Berkeley, California, USA

9:15 AM  
**Kinetics and Reaction Products of Ozone and Surface-Bound Squalene**  
J. R. Wells, G.C. Morrison and B. K. Coleman National Institute of Occupational Safety and Health, Morgantown, West Virginia, USA

9:45 AM  
**BREAK**
International Symposium on Airliner Cabin Environment: Recent Progress in Characterization and Improvement, Thursday, April 10, 2008 continued

10:15 AM  **Session 2: Panel Discussion – Progress in Characterizing and Improving the Airliner Cabin Environment since the 2002 National Academy of Science Review**

Co-Chairs:  William W. Nazaroff
University of California, Berkeley, California
USA

Presentation(s) by W. Nazaroff will initiate the discussion

11:30 AM  LUNCH (On Your Own)

12:55 PM  **Session 3: Cabin Air Quality Methods and Measurements**

Session Chair:  Jeff Myers
Battelle Science and Technology International
Columbus, Ohio
USA

1:00 PM  **Modular, Portable, Reconfigurable, and Wireless Sensing System**
S. M. Loo, M. Owen, A. Planting, and J. Kiepert, Boise State University, Boise, Idaho, USA

1:30 PM  **Design and Results of a Study of the Airliner Cabin Environment**
J. D. Myers and B. P. Goodwin, Battelle, Columbus, Ohio, USA; and C. W. Spicer, SpiceAir Consulting, Columbus, Ohio, USA

2:00 PM  **Measurement of Physical Environmental Parameters and Apparent Ventilation Rates Aboard Passenger Aircraft**
M. J. Murphy, Battelle, Columbus, Ohio, USA
2:30 PM
Concentrations of Selected Chemical Species in the Airliner Cabin Environment
I. C. McGregor and S. Buehler, Battelle, Columbus, Ohio, USA; and C. W. Spicer, SpiceAir Consulting, Columbus, Ohio, USA

3:00 PM BREAK

3:30 PM Session 4: Panel Discussion—Design, Implementation and Analysis of Surveys for Airline Passengers and Crew
Session Chair: Jeff Meyers
Battelle Science and technology International
Columbus, Ohio
USA

Presentations by J. Myers/B. Goodwin (Battelle) will initiate the discussion

5:15 PM SYMPOSIUM ADJOURNS FOR THE DAY

5:30 PM - 6:30 PM RECEPTION (Cash Bar)

FRIDAY, APRIL 11, 2008

8:15 AM Opening Remarks
C. Spicer, Symposium Chair

8:25 AM Session 5: Airliner Cabin Comfort and Health
Session Chair: J. T. L. Murawski
Association of Flight Attendants-CWA, AFL-CIO
Washington, DC
USA

8:30 AM An Attempt to Characterize the Frequency of Air Supply Contamination with Oil/Hydraulic Fluid on U.S. Commercial Aircraft
J. T. L. Murawski, Association of Flight Attendants-CWA, AFL-CIO; Washington, DC, USA;
D. S. Supplee, International Association of Machinists, AFL-CIO; Tampa, Florida, USA
9:00 AM
**Onboard Passenger Fainting**
L. Nilsson, Scandinavian Airlines System, Stockholm, Sweden

9:30 AM
**Fainting Passengers: The Role of Cabin Environment**
R. Simons, TNO Human Factors - Aerospace Medicine, Soesterberg, The Netherlands
H. de Ree, KLM Health Services, Schiphol Airport, The Netherlands

10:00 AM  BREAK

10:30 AM  **Session 6: Panel Discussion—The Significance of Microbial Contamination in Airliner Cabins**

Session Chair:  Kasthuri Venkateswaran  
California Institute of Technology, Jet Propulsion Laboratory  
Pasadena, California, USA

Presentations by G. Andersen (Jet Propulsion Laboratory), C. Gilbert (Epidemiology & Toxicology Institute) and J. Macher (California Department of Public Health) will initiate the discussion

12:00 N  LUNCH (On Your Own)

1:25 PM  **Session 7: Airliner Cabin Environmental Control**

Session Chair:  David Space  
Boeing Company  
Seattle, Washington, USA

1:30 PM  **Advanced Sorptive Cooling: A Heat Driven Cooling Process for Aircraft Cabins**

2:00 PM  **Reduction of Odor and Ozone in Aircraft Bleed Air Using A Combined Hydrocarbon and Ozone Converter (CHOC)**
P. Michalakos, B. Foor, Honeywell International, Des Plaines, Illinois, USA
Development and Evaluation of a Passenger Cabin Humidifier
L. Nilsson, Scandinavian Airlines System, Stockholm, Sweden

3:00 PM   BREAK

3:30 PM   Session 8: Panel Discussion—Progress and Future Needs in Setting Standards for the Airliner Cabin Environment

Co-Chairs: Byron Jones,
            Kansas State University
            Manhattan, Kansas
            USA

            Richard Fox
            Honeywell Aerospace
            Phoenix, Arizona
            USA

Presentations by B. Jones and R. Fox will initiate the discussion

4:50 PM   Closing Remarks
C. Spicer, Symposium Chair

5:00 PM   SYMPOSIUM ADJOURNS

3-7-08