



International Aero Industry Conference

Contaminated Air Protection

Air Safety and Cabin Air Quality

Wednesday 20th and Thursday 21st April 2005
Imperial College London, Exhibition Road, London SW7, UK

Scientific and medical evidence proposing that contaminated air needs to be isolated from cockpits and cabins is emerging from studies around the world.

Individual cases suggest that pilots, cabin crew and some passengers are at risk from extended exposure to contaminated air leading to the premature end of some crews flying careers and claims against airlines and manufacturers.

This important international conference mapping the business and regulatory solutions to cabin air contamination, is the first in the world to bring together the latest independent scientific and medical evidence on this issue.

In particular, this conference will consider international experiences, and hear presentations from the Royal Australian Air Force, regulators, trade unions, medical and scientific experts on the problems and potential solutions for improving air safety and cabin air quality.

Anticipating new legislation and international regulations and guidelines on aircraft, this essential two-day conference will provide excellent networking opportunities for aircraft manufacturers, leasing companies, Medical Directors, Senior Pilots, maintenance companies, aero industry regulators and academics approaching this emerging issue.

Keynote Speaker:

Paul Tyler CBE MP
Chair, All Party Organophosphate
Parliamentary Group, UK

Speakers include:

Ann Azevedo
Chief Scientist & Technical Advisor for
Aircraft Safety Analysis, Federal Aviation
Authority (FAA)

Prof. Michael Bagshaw
Visiting Professor of Aviation Medicine,
Kings College London, UK

Rev. John Woodley
Former Australian Senator and Chair of the
Australian Senate "Report into Air Safety
and Cabin Air Quality in the BAe 146
Aircraft".

For further information and to register online visit:

www.neilstewartassociates.com/st120

sponsored by:



www.aopis.org

In conjunction with:

T H E
LOG

DAY ONE

09:15 Registration and Refreshments

SESSION ONE:

09:50 Opening Speech

Paul Tyler CBE MP, Chair,
All Party Organophosphate
Parliamentary Group, UK

**10:05 Data Review of Instances of
In-Cabin Fumes from Propulsion
System Events**

Ann Azevedo, Chief Scientist &
Technical Advisor for Aircraft
Safety Analysis, Federal Aviation
Authority (FAA)

**10:30 Hazardous Chemicals on
Jet Aircraft**

Dr. Chris Winder, Associate
Professor in Chemical Safety and
Applied Toxicology, University of
New South Wales, Australia

10:55 Questions and Discussion

11:10 Refreshments

SESSION TWO:

11:40 Physiology of

Symptoms and Signs

Prof. Michael Bagshaw, Visiting
Professor of Aviation Medicine,
Kings College London, UK

**12:00 Illness Related to Cabin Air:
A Survey of Symptoms and
Treatment among Commercial
Pilots and Cabin Crew**

Dr. Andrew Harper, Occupational
and Public Health Physician,
Australia

**12:25 Lung Injury Following
Hydrocarbon Inhalation
in Aircrew**

Dr. Jonathan Burdon,
Respiratory Physician, Former
President of the Thoracic Society
of Australia and New Zealand
2001 - 03

12:50 Questions and Discussion

13:05 Buffet Lunch

SESSION THREE:

**14:05 Organophosphorus Ester-
Induced Chronic Neurotoxicity**

Prof. Mohamed Abou-Donia,
Professor of Pharmacology and
Cancer Biology and Professor of
Neurobiology, Duke University
Medical Center, North Carolina,
USA

**14:30 Engine Bleed Air Contamination
in Military Aircraft**

**Dr. Bhupi Singh & Dr. Wally
Mazurek**, Institute of Aviation
Medicine, Royal Australian Air
Force (RAAF)

**14:55 Neurological Impairment in a
group of Airline Attendants after
Exposure to Cabin Fumes**

Dr. Gunnar Heuser,
Neurophysiologist, Los Angeles,
California

15:20 Questions and Discussion

15:35 Refreshments

SESSION FOUR:

**16:05 Biomarkers for Exposure to
Organophosphorus (Op)
Compounds**

Prof. Clement Furlong, Research
Professor of Genetics & Medicine,
University of Washington, USA

**16:30 Assessing over 30 Flight Crew
who have Presented as a Result
of Being Unwell after Exposure
to Fumes on the BAe146 Jets**

Dr. Moira Sommers, General
Practitioner, Australia

**16:50 The Effects of Neurotoxic
Emissions on the Cognitive
Functioning of Workers in
Medical, Industrial and Aviation
Settings**

Leonie Coxon, Consultant Clinical
and Forensic Psychologist, and
Doctoral Student, Murdoch
University, Australia

17:15 Questions and Discussion

17:30 END OF DAY ONE

DAY TWO

08:30 Registration and Refreshments

SESSION ONE:

**09:00 Multi-system and Multi-organ
Chronic Illnesses in the UK:
ME-CFS, pesticide poisoning,
MCS and Fibromyalgia**

**Professor Emeritus Malcolm
Hooper PhD**, B.Pharm.MRIC,
CChem, University of Sunderland,
and Chief Scientific Advisor to the
UK Gulf War Veterans

**09:20 Clinical Diagnosis of Chronic
Fatigue-Pain-Cognitive Illness**

Prof. Robert Haley M.D.,
Department of Internal Medicine,
University of Texas Southwestern
Medical Center, USA

09:45 Questions and Discussion

**09:55 Development of a Standard for
Aircraft Air Quality**

Dr. Byron Jones, Principal
Investigator, FAA Center of
Excellence for Aircraft Cabin
Environment Research (ACER),
Kansas State University, USA

10:15 The Politics of Air Safety
Rev. John Woodley, Former
Australian Senator and Chair of
the Australian Senate "Report
into Air Safety and Cabin Air
Quality in the BAe146 Aircraft".

10:40 Questions and Discussion

**10:50 The United States Jury System:
A Much Maligned but Effective
Regulator of Corporate
Misconduct – The Dangerous
Cockpit, a Case In Point**

Stuart Calwell, founder and
owner of The Calwell Practice,
PLLC, USA specializing in the
adverse effects of toxic
substances on the environment
and man

11:05 Refreshments

SESSION TWO:

11:35 Neurotoxicity from Exposures to Long Term Low Level Organophosphorus Esters
Dr. Goran Jamal and Dr. Peter Julu, Division of Neurosciences, Imperial College of Science, Technology and Medicine.

Dr Sarah Mackenzie Ross, Consultant Clinical Neuropsychologist, University of London and Sub-Department of Clinical Health Psychology, University College London (UCL), UK

12:00 Cabin Air Filtration - Present and Future
Karen Bull, Senior Business Development Manager, Pall Aerospace

12:25 Aircraft Air Quality Incidents, Symptoms, Exposures and Possible Solutions
Prof. Chris van Netten, Professor of Health Care and Epidemiology, University of British Columbia, Canada

12:50 Questions and Discussion

13:05 Buffet Lunch

SESSION THREE:

14:05 Adaptation of Near Real Time Biosensor Systems for Monitoring of Cabin Air Quality
Prof. Clement Furlong, Research Professor of Genetics & Medicine, University of Washington, USA

14:30 Activated Carbon Fibers Applied to Air Treatment
Pascal Contini, Air Quality Program, Sofrance - Snecma Group

14:55 ITF-Endorsed Actions to address Contaminated Aircraft Air
Ingo Marowsky, Aviation Secretary, ITF Aviation Section, International Transport Workers' Federation (ITF)

15:15 OHRCA Research Project
Dr. Laurel Kincl, Project Manager, Occupational Health Research Consortium on Aviation (OHRCA)

15:35 Questions and Discussion

15:50 Closing Speech
Jim McAuslan, General Secretary, British Air Line Pilots Association (BALPA)

16:05 CLOSE OF CONFERENCE

Purpose of the Conference

This conference will

- Map out the scientific evidence for cabin air contamination from both past and present research and inquiries.
- Hear about the medical effects being seen in both crew and passengers.
- Outline proposed new cabin air quality standards on commercial jet aircraft.
- Consider the various different methods that could be effectively employed to detect the presence of contaminants, including organophosphates and carbon monoxide.
- Disseminate the latest medical and scientific theories on the health aspects of exposure to contaminated bleed air.
- Examine the latest and various different filtration technologies available to remove bleed air contaminants and improve working conditions in the cabin and cockpit environments.
- Provide an opportunity for networking and sharing good practice to facilitate better inter-agency working

Who Should Attend?

Aviation Regulators and Authorities
International Civil Aviation Bodies
Aircraft Makers
Engine Manufacturers
Accident Investigation Boards
Aviation Medical Doctors
Airliner Leasing Companies
National and International Airline Representatives
Travel Companies
Airports
Aviation Lubricant Manufacturers
Hydraulic Fluid Manufacturers
Aviation Fuel Companies
Health and Safety Statutory Bodies
Maintenance Companies
Maintenance Directors
Operations Directors
Services Companies
Cleaning Companies
Pilot and Human Resources Directors
Chief Pilots
Pilot Organisations
NHS and Private General Practitioners
Medical Directors and Professionals
Banks
Aviation Industry Finance Companies and Analysts
Insurers
Aviation Industry Contractors
Government Health Departments
Department of Trade and Industry
Department for Transport
Government Agencies, Departments and Regulatory Bodies
Research Companies
Pilot and Aircrew Associations
Trade Unions
Academics
Policy Officers
European Agencies and Bodies such as AECMA, EASA,

Unable to Attend?

Conference papers are available after the conference for £135. This useful reference will include: available speakers' papers, speakers' biographies and any additional inserts from external companies.

To purchase the conference papers, complete the relevant sections on the booking form and send it with payment to Neil Stewart Associates Ltd.

NB. The delegate pack will be sent after the event, once payment has been received.

