



AERONAUTICS DAYS 2006

Final Programme

**Fifth Community
Aeronautics Days**
19-21 June 2006
Vienna, Austria
www.aerodays2006.org

Sustainable Solutions for New Horizons

➤ Conference Organisers:

“Aeronautics Days 2006 – Sustainable Solutions for New Horizons” is organised by:

- ✈ The European Commission (EC);
- ✈ The Austrian Ministry for Transport, Innovation and Technology (BMVIT);
- ✈ The Austrian Research Promotion Agency (FFG);
- ✈ The German Society for Aeronautics and Astronautics (DGLR) for the Council of European Aerospace Societies (CEAS);
- ✈ The Austrian Research Centers (ARC).

➤ Programme Committee:

- ✈ R. Henke, RWTH Aachen, Chairman;
- ✈ F. Rammerstorfer, TU-Vienna, Vice Chairman;
- ✈ D. Knörzer, European Commission;
- ✈ D. Reay, European Commission;
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- ✈ Z. Goraj, University of Technology Warsaw;
- ✈ M. Holl, VZLU;
- ✈ C. Nae, Inst. for Aerospace Research, INCAS;
- ✈ F. Hrachowitz, AAI, AT;
- ✈ Ch. Pusch, Eurocontrol;
- ✈ V. Guenon, Safran;
- ✈ U. Möller, DLR Office Brussels.

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Foreword by the Austrian Vice Chancellor

Ladies and Gentlemen,

Mobility has become a key issue in modern societies and economies. Aviation industry provides the means for meeting the mobility demand of the future. Continuous improvement together with latest technology development enables us to achieve high performance in air transport already today. Based on a sustainable transport policy, intense research efforts and technology development and skilled staff particularly a small country like Austria is able to contribute to an intelligent infrastructure, security and safety issues and to participate in the latest technology projects such as the Airbus A 380. The Austrian aeronautics industry has made big steps in an increasingly demanding business environment over the last twenty years. For that sufficient and reliable framework conditions in public R&D funding are needed.



Beneath our national funding system we are very happy about the high importance of aeronautics research within the Research Framework Programme of the European Union, because it is an ideal instrument to foster our respective international collaboration. Only common solutions, integrating the capabilities of countries and stakeholders of different size will enable Europe to play its paramount role in the worldwide competition.

The challenge of today is the development of Sustainable Solutions for New Horizons of the future. Such as greening of air transport due to reduced emissions, improved cost efficiency and maximum customer satisfaction and safety. With the new Strategic Research Agenda of the Advisory Council for Aeronautics Research in Europe (ACARE) we have helpful guidelines to implement a new Vision in an enlarged Europe and on a national level.

The Fifth Community Aeronautics Days 2006 will aim at providing a platform for exchanging latest research results and best practise in aeronautics on an international level. Especially after the enlargement of the European Union the integration of New Member States also in the Aviation Sector offers new potentials for pooling forces. For that I am convinced that Austria and Vienna will offer the best framework conditions to truly integrate the best ideas of the New Member States and beyond into the common European research fabric in the field of aeronautics.

We are proud to organize this conference during the Austrian Presidency together with the European Commission, the Council of European Aerospace Societies, Deutsche Gesellschaft für Luft und Raumfahrt and the Austrian Research Promotion Agency here in Vienna. I wish all participants a fruitful and enjoyable event here in Vienna.

Hubert Gorbach

Austrian Vice Chancellor and

Austrian Minister of Transport, Innovation and Technology

A handwritten signature in black ink, appearing to be 'Hubert Gorbach'.

Foreword by the EU Commissioner for Science and Research



Ladies and Gentlemen,

Aeronautics plays a strategic role in Europe. It brings citizens closer together and generates knowledge, skills, wealth and jobs. The industry is essential for economic growth and is a key player in the effort to make Europe the most competitive and dynamic knowledge-based economy and society in the world.

An area where Europe is recognised as strong, Aeronautics has become a symbol of what Europeans can accomplish when they work together. The strength of the European Aeronautics industry is the result of teamwork and Community research has had an important role to play in this, acting as a powerful catalyst to bring the key players together around common objectives.

In 2001, the 'Vision 2020' for Aeronautics in Europe established the goal of meeting society's needs while ensuring industrial competitiveness. Reaching this goal means rising to some tough challenges. Europe must respond to a rapidly growing air transport market while balancing environmental, safety, security and capacity demands – all of this in the face of growing global competition. The Advisory Council for Aeronautics Research in Europe is providing strong support to this vision by involving all stakeholders and putting forward a Strategic Research Agenda.

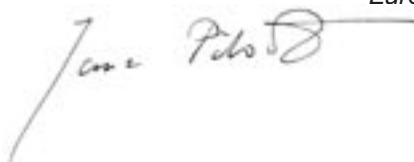
Now more than ever, new technological solutions are called for and Europe must work together to find them. The Community budget for Aeronautics Research has increased steadily under the Framework Programmes, reflecting the increasing importance of the sector for economic growth. This trend is expected to continue, with a substantial share going to research instruments of greater scale and scope, such as joint technology initiatives.

In addition, the recent enlargement of the European Union has brought in ten new Member States, many of which have strong national Aeronautics traditions. The integration of these new partners within the European Research Area is far from complete, but they are certain to play an increasingly important role in the future of European Aeronautics Research.

I am confident that Aeronautics Days 2006 will provide a thought-provoking and useful exchange of ideas, providing valuable opportunities for collaboration and networking. The event will help us take stock of what has been accomplished so far, while looking to the challenges and solutions that lie ahead for European Aeronautics and Air Transport.

Janez Potočnik

European Commissioner for Science and Research

A handwritten signature in black ink, which appears to read 'Janez Potočnik'. The signature is written in a cursive style with a long horizontal stroke at the end.

Foreword by the Mayor and Governor of Vienna

Ladies and Gentlemen,

As Mayor and Governor of Vienna I am strongly looking forward to welcoming you to the Austrian federal capital on the occasion of the International Aeronautics Conference Aerodays 2006. It will be a privilege for me to be your host at a formal evening reception at Vienna City Hall on 20 June.

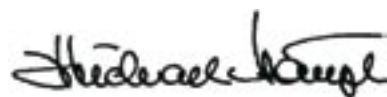
Vienna is an international capital of art and culture and the world capital of music where some of the most renowned composers of the classical era lived and worked. This year, Vienna celebrates the 250th birthday of the musical genius Wolfgang Amadeus Mozart.

Vienna is also an international centre of business and politics as it hosts one of the three United Nations headquarters, is a conference venue, and a hub between East and West. Austrian banks, for example, are among the market leaders in finance and insurance in the Central and Eastern European countries. There are also hundreds of renowned corporations such as IBM, Siemens or Mc Donald's which have their headquarters in Vienna and service the new future markets from here. The dynamics of the Vienna business industry, dominated by small and medium-sized enterprises, which have made the Austrian federal capital one of the most productive cities in Europe should not be underestimated: more than half of Vienna's businesses are less than ten years old. In the IT sector, for example, Vienna has become one of the three top locations in Europe along with London and Munich.

The typical Viennese quality of life, however, has always been one of the most important location factors appreciated by international guests from all over the world. I would therefore like to welcome you most sincerely to the metropolis on the Danube and wish you a successful and enjoyable stay in Vienna!



Dr Michael HÄUPL
Mayor and Governor of Vienna

A handwritten signature in black ink, which appears to read "Michael Häupl".

Aeronautics takes centre stage

Air Transport is a vital asset for Europe's economic and social prosperity. The aeronautics sector contributes about 500 billion to the EU GNP every year. It employs 3.1 million people, representing 1.9% of all EU jobs. Aeronautics exports amount to 60% of the industry's turnover, generating a trade surplus of 2.2 billion, and, with a fleet of about 5 000 aircraft, European airlines transport 1 billion people every year.

This unmitigated success for the industry is a direct result of its pioneering R&D-oriented approach. With its longstanding experience in co-operative and international research and its proud history of scientific and technological excellence, the aeronautics industry itself is now seen as a model for the larger European 'knowledge-based society' that the Union is so urgently seeking to achieve.

In keeping with the size, importance and success of the European aeronautics industry, the European Commission and the Austrian EU Presidency has organised a premier-level event in the form of the Aeronautics Days 2006 Conference.

Following on from successful predecessors in Brussels (1991), Naples (1993), Toulouse (1997) and Hamburg (2001), this Fifth Community Aeronautics Days takes place on 19-21 June 2006 in Vienna, Austria, and brings together aeronautics stakeholders from all over Europe, including Russia and the Ukraine, and from the Americas and Asia, to network, present results and discuss common future R&D projects.

Highlights include **keynote addresses** by major industrial and political figures, **technical excursions** providing an up-close look at the latest in aeronautics technological innovation, a state-of-the-art **exhibition** area and sparkling **social events** at prestigious Vienna sites, aimed at allowing key players and industry newcomers to mix and get to know each other.

Aeronautics Days 2006 is a major, world-level forum for information exchange and dissemination of EU-funded RTD results, fully in line with the Union goals of creating an open and coordinated European Research Area, a Single European Sky and of enabling efficient mobility throughout Europe and the world.

A crucial moment for Air Transport

The aviation sector is all too aware of the need to find an acceptable balance between public expectations and the constant, fierce competitive pressures from global rivals. The modern air transport system is being called upon to satisfy increasingly urgent demands for lower travel costs, better service, the very highest safety and environmental standards and seamless connectivity with other transport modes and networks. To remain competitive while meeting all of these needs, the industry must rapidly develop and deploy new and innovative technologies and procedures.

The key to securing these objectives is investment in research and technology, according to a strategy that can meet the demands of the market as well as the needs of the community.

The ACARE Technology Platform (Advisory Council for Aeronautics Research in Europe) has already provided a crucial starting point for the EU's overall aeronautics research programme. Launched by the Group of Personalities, whose 'Vision 2020' set the goals for future air transport, ACARE is now slated to present a mid-term review, at the Aeronautics Days 2006 Conference, of its own 'Strategic Research Agenda 2', first published in March 2005.

Today's Transport Research keeps Europe in front

While previous Framework Programmes have emphasised technology, design and manufacturing processes, today's research is increasingly responding to greater societal needs addressing issues of infrastructure, environmental performance and mobility patterns, helping to improve the lives of ordinary citizens while strengthening Europe's position as a world competitor.

The European Council, Parliament and Commission have all shown real support for European aeronautics, establishing aeronautics research as a key thematic priority over two successive EU Research Framework Programmes (FP5 and FP6). Not only will this support continue, but it is now set to expand significantly under the upcoming Seventh Framework Programme (FP7, 2007–2013).

Importantly, Aeronautics Days 2006 coincides with the launch of FP7, an ideal moment to present and review the status of European aeronautics R&D. High-level European Commission representatives have been actively involved in the planning of the conference and will provide detailed presentations of EU research goals and opportunities under FP7, with particular attention to the involvement of the new EU Member States.

The premier event of the aeronautics year

Austria is determined to make Aeronautics Days 2006 a highlight of its EU Presidency and takes special pride in showcasing its magnificent capital city throughout the programme. This not only includes the impressive line-up of events planned for participants but also a special programme of social events for accompanying partners.

Significantly, Austria is represented by a strong delegation of Europe's best and brightest students and young researchers. A special contest for students will be another highlight.

➤ Aeronautics Days – Student Project Competition

As integral part of the Aeronautics Days 2006 a Student Project Competition has been organised, providing the student members an educational experience of European dimension that prepares them for the future as practicing aeronautical researcher and engineers.

More than 40 projects from 14 European countries have been selected by a European jury. They will be presented by posters in the exhibition and by corresponding short presentations in special student sessions (see below). Their work, both written and oral, is evaluated by professional members of the jury board serving, with the primary intent of providing substantial feedback on the quality of their work. The three highest scoring projects in the undergraduate und graduate category are recognized with the *Aerodays 2006 Students Awards*.

All participants of the Aeronautics Days 2006, students or professional, are invited to attend in the Student Project Competition sessions.

Presentations of the Student Project Competition

Tuesday, 20th June 2006

11h25 – 12h50

Session F.4

Gate 7

University Networks & Students Research

Presentation of the best student projects

Chairperson: **Dieter Schmitt**, *Airbus S.A.S.*

15h25 – 16h45

Session I.5

Gate 10

Student Project Competition Session I

Presentation of the selected projects

Chairperson: **Carsten Holze**, *DGLR*

17h15 – 18h45

Session I.6

Gate 10

Student Project Competition Session II

Presentation of the selected projects

Chairperson: **Carsten Holze**, *DGLR*

Programme – Day 1: Monday, 19 June 2006

09h00

Registration and Welcome Coffee

11h00 – 13h00

Opening Ceremony and Plenary Session (Gate 1)

Welcome Addresses

Chairperson:

Knut Consemüller, Chairman of Austrian Council Research and Technology Development and Böhler Uddeholm

Speakers:

Hubert Gorbach, Chairman of the European Transport Council, Vice-Chancellor and Austrian Minister for Transport, Innovation and Technology

Janez Potočnik, European Commissioner for Science and Research

Jorgo Chatzimarkakis, Member of the European Parliament

Paul Rübig, Member of the European Parliament

Keynote Addresses

Charles Edelstenne, Chairman Elect of Aerospace and Defence Industries Association of Europe and CEO Dassault Aviation

Joachim Szodrich, ACARE Co-Chairman, President of DGLR and EREA Vice-Chairman

Victor Aguado, Director General, Eurocontrol

Fernando Pinto, Past Chairman of Association of European Airlines and CEO of TAP Air Portugal

13h00 – 13h15

Exhibition Opening

13h15 – 14h30

Lunch

14h30 – 15h00

Plenary Session 1 – A Vision of Future Air Transport (Gate 1)

Chairperson:

Fred Abbink, Director General, NLR

The Airbus A380 – Towards a New Future for Air Transport

Dieter Schmitt, Vice-President Research and Technology, Airbus S.A.S.

Programme – Day 1: Monday, 19 June 2006

15h00 – 16h25

Parallel Sessions 1

The Greening of Air Transport

A.1 Investigation of Climate Effects

Gate 2

Chairperson:
Roger Gardner,
UK Department of Transport

Aviation and climate change: options for mitigation
Ulrich Schumann, DLR

AERONET: Aircraft Emission and Reduction Technologies
Alf Junior, DLR

AERO2k Aviation Global Emissions Inventory – 2002 & 2025
Chris Eyers, QinetiQ

QUANTIFY: Quantifying the Climate Impact of Global and European Transport Systems
Veronika Eyring, DLR

Improving Cost Efficiency

B.1 Integrated Design & Validation

Gate 3

Chairperson:
Philippe Homsy,
Airbus-FR

Value Improvement through a Virtual Aeronautical Collaborative Enterprise (VIVACE)
Jean-Claude Dunyach,
Airbus S.A.S.

VIVACE Integrated Technical Results
Yves Baudier, EADS CRC

Installed Performance of Antennas on AeroStructures (IPAS)
Thereza Macnamara, BAE Systems

SYNAMEC – Synthesis Tool for Aeronautical Mechanisms Design
Alain Remouchamps,
SAMTECH

Ensuring Customer Satisfaction, Safety and Security

C.1 Cabin Environment

Gate 4

Chairperson:
David Zammit Mangion,
University of Malta

Visions for Improved Passenger Services
Reiner Rückwald,
Airbus-DE

Friendly Aircraft Cabin Environment (FACE)
Antonio Paonessa, Alenia Aeronautica

Improving Air Quality in Aircraft Cabins Using ‘Measurements in the Sky’ and Innovative Designs and Technologies (CABINAIR)
Earle Perera, Building Research Establishment

ICE: Ideal Cabin Environment for Health in Passenger Carrying Commercial Aircraft – Especially in Long-haul Flights
Earle Perera, Building Research Establishment

Influence of Cabin and Cock-pit Environment on Well Being and Performance of Flight and Cabin Crew (HEACE)
Volker Mellert, University of Oldenburg

Increasing Time Efficiency

D.1 Air Traffic Management

Gate 5

Chairperson:
Luigi Iodice,
SELEX

6th Framework Aeronautics: Input into the European ATM Medium Term Concept of Operations – Cooperative ATM

Andy Barff, EUROCONTROL Experimental Centre

Cooperative Approach to ATS (CAATS)

Marcial Valmorisco, ISDEFE

Airborne New and Advanced Satellite techniques & Technologies in a System Integrated Approach (ANASTASIA)

Jean-Yves Catros, Thales-Avionics

Broadband VHF Aeronautical Communications System Based on MC-CDMA (BVHF)

Christoph Rihacek, Frequentis

Gate-to-Gate

Dominique Egron, Thales ATM

16h25 – 16h55

Pioneering the Air Transport of the Future

E.1 New Aircraft Concepts

Gate 6

Chairperson:
Zdobyslaw Goraj,
Warsaw University of Technology*

Challenges and Potential of Blended Wing Body Configurations (Results of the Project VELA)

Nikolai Kresse, Airbus-DE

New Aircraft Concepts Research (NACRE)

Joao Frota, Airbus-ES

HTP & HTP Remote Control System with Elevator – Rear Fuselage Gap Sealing System Design for REMFI Programme

Jesús de Pablo Pérez, Airbus-ES

Environmentally Friendly High Speed Aircraft (HISAC)

Patrick Parnis, Dassault Aviation

Coffee Break

European Research Area

F.1 European Strategy

Gate 7

Chairperson:
Elisabeth Huchler,
Austrian Federal Ministry of Transport, Innovation and Technology, BMVIT

ACARE: The Observation Platform of the Strategic Research Agenda

Luigi Botasso, ASTERA/ASD

GARTEUR overview on current activities

Bas Oskam, National Laboratory NLR

AirTN – The ERA-Net in Aeronautics

Walter Riha, DLR

Research Collaboration within GARTEUR

N.N.

European Research Area

G.1 Round Table Session: Aerospace Clusters Contributing to the Aeronautics Supply Chain

Gate 8

Chairperson:
Thilo Schönfeld,
CNRT

Participants:

François Jouaillec, Aerospace Valley Midi-Pyrénées-Aquitaine (Moderator);

Ute Sachau Böhmert, Aerospace Cluster Hamburg;

José Juez, HEGAN Aerospace Cluster Basque Country;

Philippe Schleicher, Walloon Aeronautical Cluster (EWA);

Andrzej Rybka, Aviation Valley Southeast Poland;

Paola Chiarini, AeroSME/ASD

Programme – Day 1: Monday, 19 June 2006

16h55 – 18h15

Parallel Sessions 2

The Greening of Air Transport

A.2 Aero-engine Combustor Technologies

Gate 2

Chairperson:
Valérie Guénon,
SAFRAN

Integrated Lean Low Emission Combustor Design Methodology (INTELLECT DM)
Ralf von der Bank,
Rolls-Royce-Deutschland

MUSCLES – Modeling of UnSteady Combustion in Low Emission Systems
Helen Brocklehurst,
Rolls-Royce

Towards Lean Combustion (TLC)
Thomas Noel, SNECMA

The Low-Pollutant Combustor Technology Programme LOPOCOTEP
Olivier Penanhoat and Thomas Noel, SNECMA

Improving Cost Efficiency

B.2 Improving Aircraft Performance

Gate 3

Chairperson:
Zdobyslaw Goraj,
Warsaw Univ. of
Technology

The European R&T Platform AWIATOR: Bringing New Aircraft Technologies Into The Air
Jens König, Airbus-DE

The role of the European Research Establishments in AWIATOR on Examples from Flight Test Measurements Technologies
Eric Coustols, ONERA

European High Lift Programme (EUROLIFT)
Ralf Rudnik, DLR

NEFA Project-Assessment and Comparison of New Empennage Concepts for Transport Aircraft
Jean-Jacques Mirat,
Airbus S.A.S

Ensuring Customer Satisfaction, Safety and Security

C.2 External Hazard and Accident Survivability

Gate 4

Chairperson:
Thereza Macnamara,
BAE Systems

Airborne Integrated Systems for Safety Improvement, Flight Hazard Protection and All Weather Operations (FLYSAFE)
Joseph Huysseune,
Thales Avionics

SIRENA: an Efficient 3D Approach for External EMC Simulation in the Close Environment of the Airport
Nicolas Douchin, Oktal

SANTANA: Smart Antenna for Broadband Mobile Satellite Communications at Ka-Band
Achim Dreher, DLR

Crashworthiness of Aircraft for High Velocity Impact (CRAHVI)
Timothy Brown, BAE SYSTEMS

Increasing Time Efficiency

D.2 Airports and ATM

Gate 5

Chairperson:
Christian Pusch,
Eurocontrol

Supporting Platform for Airport Decision-Making and Efficiency Analysis (SPADE)

Michel van Eenige, NLR

Optimized Procedures and Techniques for Improvement of Approach and Landing (OPTIMAL)

Yohann Roux, Airbus S.A.S.

4D Virtual Airspace From Present to Future ATC (AD4)

Luigi Mazzucchelli,
Next – Ingegneria dei Sistemi

European Airport Movement Management by ASMGCS (EMMA)

Michael Roeder, DLR

Pioneering the Air Transport of the Future

E.2 Breakthrough Technologies

Gate 6

Chairperson:
Bruno Stoufflet,
Dassault Aviation

LAPCAT: Vehicle and Propulsion Aspects for Sustained Supersonic Flight
Johan Steelant, European Space Agency

Fuel Cell Application in a New Configured Aircraft (CELINA)
Christine Schilo, Airbus-DE

Fundamentals of Actively Controlled Flows with Trapped Vortices (VORTEXCELL 2050)
Sergei I. Chernyshenko, University of Southampton

Aircraft Reliability Through Intelligent Materials Application (ARTIMA)
Gregorio Kawiecki, Gamesa

European Research Area

F.2 National Aeronautics RTD Highlights

Gate 7

Chairperson:
Wolf Günther,
German Federal Ministry of Economy and Technology, BMWi

Aeronautical Research Efforts towards Green Technologies in France and Europe
Jean-Luc Tinland, DPAC

The UK National Aerospace Technology Strategy
Ray C. Kingcombe, UK Department of Trade & Industry

Integration of aeronautics RTD on European, National and Regional Level
Franz-Josef Mathy, German Federal Ministry of Economy and Technology, BMWi

The Italian National Programme for Aeronautics
Marciello Amato, CIRA/Italy

European Research Area

G.2 Future Air Transport – User Aspects

Gate 8

Chairperson:
Johann Zemsky,
COO / Austro Control

Sustainability of Airport Development
Herbert Kaufmann, Vienna International Airport

Designing the Aircraft of Tomorrow
Karl Echtermeyer, Deutsche Lufthansa AG

Commercial Aircraft Developments in Israel Aircraft Industry
Arnold Nathan, Israel Aircraft Industry

20h00

Reception of the Austrian Presidency and Rolls-Royce at the Kunsthistorisches Museum





Programme – Day 2: Tuesday, 20 June 2006

8h30 – 9h30

Plenary Sessions 2 (Gate 1)

Chairperson: **Klaus Pseiner**, Austrian Research Promotion Agency FFG

The Single Sky for Europe – SESAR and Other Initiatives

Ben van Houtte, Head of Air Transport, European Commission, DG TREN

The NGATS Initiative (USA)

Karl Grundmann, Joint Planning and Development Office, Federal Aviation Administration, USA

Programme – Day 2: Tuesday, 20 June 2006

09h35 – 10h55

Parallel Session 3

The Greening of Air Transport

Improving Cost Efficiency

Ensuring Customer Satisfaction, Safety and Security

Increasing Time Efficiency

A.3 External Noise Reduction

B.3 Composite Structures

C.3 Wake Vortex Investigations

D.3 Point to Point Air Transport

Gate 2

Chairperson:
Dominique Collin, SNECMA

Aircraft External Noise Network (X-NOISE)
Dominique Collin, SNECMA

Significantly Lower Community Exposure to Aircraft Noise (SILENCE(R))
Eugene Kors, SNECMA

Turbo machinery Noise Radiation through the Engine Exhaust (TURNEX)
Brian J. Tester, Southampton University

SOURDINE (I & II) -Study of Optimisation Procedures for Decreasing the Impact of Noise around Airports II
Collin Beers, NLR

Aircraft Noise Modelling with Imagine: Meeting the Requirements of the European Noise Directive
Peter Hullah, EUROCONTROL

Gate 3

Chairperson:
Spiros Pantelakis, Laboratory of Technology and Strength Material

Findings of the FUBACOMP Project and Links to new Developments in the ALCAS Project
Philippe Vautey, Dassault Aviation

Improved Material Exploitation at Safe design of Composite Airframe Structures by Accurate Simulation of Collapse (COCOMAT)
Richard Degenhardt, DLR

Failure, Performance and Processing Prediction for Enhanced Design with Non-Crimp Fabric Composites (FALCOM)
Charlotte Meeks*, QinetiQ

Hierarchical Modelling of Composite Aircraft Components
Dieter Pahr, TU Wien

Gate 4

Chairperson:
Volker Heil, Deutsche Flugsicherung GmbH, DFS

The European Wake Vortex Activities (Wake Net 2 – Europe)
Bram Elsenaar, NLR retired

Fundamental Research on Aircraft Wake Phenomena (Far-Wake)
Thomas Leweke, CNRS Marseille

ATC-Wake – Integrated Air Traffic Control Wake Vortex Safety and Capacity System
Lennaert Speijker, NLR

Wake Vortex Research in the US (Wake-Net USA)
Steve Lang, Federal Aviation Administration, USA & Wayne Bryant, NASA

FIDELIO – the Next Generation On-board Wake Vortex Detection System
Dan Slasky, ELOP Industries

Gate 5

Chairperson:
Guiseppe Pagnano, AGUSTA

Active Control Technologies for Tilt-rotor – Major Step towards Civil Tilt Rotor Transport (ACT-TILT)
Philippe Rollet, Eurocopter

Design Advance Rotor for Tilt Rotor – Major Step towards Tilt Rotor Transport
Christophe Serr, Eurocopter

Tilt-rotor Interactional Aerodynamics (TILTAERO)
Antonio Saporiti, Agusta

Validation of Tilt-rotor Technology (NICE-TRIP)
Antonio Saporiti, Agusta

Pioneering the Air Transport of the Future

E.3 Towards a Fully Automatic ATS

Gate 6

Chairperson:
Vu Duong,
EUROCONTROL

Civil and Commercial UAV Thematic Network
Mark Okrent, Israel Aircraft Industries

Innovative Future Air Transport System (IFATS)
Claude Le Tallec, ONERA

UAV Safety Issues for Civil Operations (USICO)
Reimund Kueke, AIROBOTICS

Civil UAV Application and Economic Effectiveness of Potential Configuration Solutions (CAPECON)
Akiva Peled, Israel Aircraft Industries

European Research Area

F.3 Integrated Research Infrastructures

Gate 7

Chairperson:
Erich Gornik,
Austrian Research Centres

EREA Capabilities in European Aeronautics R&D
F.J. Abbink, NLR

European Wind Tunnel Association – European Wind Tunnel Association: Two Years Activity
Jean-Marc Bousquet, ONERA

ECATS – European Network of Excellence for an Environmentally Compatible Air Transport System
Sigrun Matthes, DLR

Centres of Excellence in Aeronautics RTD in Poland
Janusz Narkiewicz, Warsaw Univ. of Technology

International Forum

G.3 Aeronautics RTD in Commonwealth of Independent States

Gate 8

Chairperson:
Sergey Chernyshev,
TsAGI

Aeronautics RTD in Russia – an Overview
Sergey Lyapunov, TsAGI

Russian SME in the Area of Aeronautics
Sergey Trofimov, Monitor Soft Ltd. & **Nikolay Testoyedov,** NPO PM Razvitie

The Basic Aviation Scientific Research in Azerbaijan
Ramiz A. Sadiqov, Azerbaijan National Aviation Academy

Aviation of Ukraine. Its Formation and Development
Volodymyr Kryvtsov, National Aerospace University of Ukraine

European Research Area

H.3 The “SESAR” Forum – the Joint European Concept in Air Traffic Management

Gate 1

Chairperson:
Ben Van Houtte,
European Commission, DG TREN

SESAR Programme
Patrick Ky, European Commission (DG TREN)

ATM R&D: vision of the future
Jan Van Doorn, Eurocontrol

New ATM challenges for the Industry
Jean-Claude Richard, Air Traffic Alliance

Users Expectations for New Generation ATM
Fritz Feitl, Single European Sky – Industry Consultation Body

Programme – Day 2: Tuesday, 20 June 2006

11h25 – 12h50

Parallel Session 4

The Greening of Air Transport

Improving Cost Efficiency

Ensuring Customer Satisfaction, Safety and Security

Increasing Time Efficiency

A.4 Propulsion Systems and Emission Reduction

B.4 Technology for Metallic Structures

C.4 Maintenance Methods

D.4 Technologies for Future ATS

Gate 2

Chairperson:
Franz Heitmeir,
TU Graz

Overview speech: New Aero-engine Concepts
Günter Wilfert,
MTU Aero Engines

ANTEL – An Integration of European and National Research Programmes to the Benefit of the European Aero-engine Supply Chain
Nick Peacock, Rolls-Royce

CLEAN – Validation of a High Efficient Low NO_x Core, a GTF High Speed Turbine and an Integration of a Recuperator in an Environmentally Friendly Engine Concept
Günter Wilfert, MTU Aero Engines

Environmentally Friendly Aero Engine (VITAL)
Jean-Jacques Korsia, SNECMA

Gate 3

Chairperson:
Heinz Voggenreiter,
DLR

Leading the Way with Advanced Aluminium Solutions for Aerospace Structures
Frank Eberl, ALCAN

Development of Short Distance Welding Concepts for Airframes (WEL-AIR)
Delphine Alléhaux, EADS Corporate Research Centre

Improve and Assess Repair Capability of Aircraft Structures (IARCAS) – Recent Developments
George Lampeas, University of Patras

New Tools and Processes for Improving Machining of Heat Resistant Alloys Used in Aerospace Application (MACHERENA)
Paco Alonso, GEYCA

Innovative Fatigue and Damage Tolerance Methods for the Application of New Structural Concepts (DATON)
Peter Horst, TU Braunschweig

Gate 4

Chairperson:
Ernst Semerad,
Austrian Research Centres

Automated Repair and Overhaul System for Aero Turbine Engine Components (AROSATEC)
Claus Bremer, BCT GmbH

Technologies and Techniques for New Maintenance Concepts (TATEM) – Operational Needs and Requirements
Jon Dunsdon, Smith Aerospace

The TATEM Health Management Solution
Jon Dunsdon, Smith Aerospace

Innovative NDT Concepts for Aerospace Industry – The INCA Project
Sönke Seebacher, Airbus-DE

Gate 5

Chairperson:
Jan van Doorn,
Eurocontrol

Airborne Separation Assistance System Thematic Network 2 (ASAS-TN2): ASAS Applications Maturity Assessment
Chris Shaw, Eurocontrol Experimental Centre

Advanced Safe Separation Technologies and Algorithms (ASSTAR)
Chris Rossiter, BAE SYSTEMS

En Route Air Traffic Soft Management Ultimate System (ERASMUS)
Marc Brochard, Eurocontrol Experimental Centre

Operationally Driven Airspace Traffic Structure based on Dynamic Airspace and Multi-Layered Planning (SUPER HIGHWAY)
Nicolas Suarez, ISDEFE

Pioneering the Air
Transport of the
Future

**E.4 Rotorcraft of the
Future**

Gate 6

Chairperson:
Yves Favennec,
Eurocopter

*The Passenger and
Environmentally Friendly
Helicopter (FRIENDCOPTER)*

Valentin Kloeppe,
Eurocopter-Deutschland

*Helicopter Noise and
Vibration (HELINOVI)*

Jürgen Langer, DLR

*Tilt-rotor Integrated Drive
System Development (TRISYD)*

Federico Montagna,
Agusta

*Safe Structures for Advanced
Helicopter (HELISAFE)*

Edgar Uhl, Autoflug

12h50 – 14h20

14h20 – 15h20

Chairperson: **Ingolf Schädler,** Deputy Director General for Innovation, Austrian Federal Ministry for Transport, Innovation and Technology, BMVIT

European Research
Area

**F.4 University
Networks & Students
Research**

Gate 7

Chairperson:
Dieter Schmitt,
Airbus S.A.S.

*EASN – European
Aeronautics Science
Network*

Spiros Pantelakis, Univ. of
Patras

*The PEGASUS Network: an
Example of Co-operation
in Higher Education in
Aerospace Engineering in
Europe*

Gianfranco Chiocchia,
Politecnico di Torino

*Best of the Student Project
Competition (Presentations
to be continued in the
afternoon Room: Gate 9)*

Lunch

Plenary Session 3

The 7th Framework Programme – Sustainable Solutions for New Horizons

Jack Metthey, Director of Transport Research, European Commission, DG RTD

The New Issue of the Second Strategic Research Agenda for Aeronautics

Joachim Szodruch, ACARE Co-Chairman

The “Clean Sky” Joint Technology Initiative

Alain Garcia, Executive Vice President Engineering, Airbus S.A.S.

European Research
Area

**G.4 General Aviation
RTD highlights
– Europe on the move**

Gate 8

Chairperson:
Milan Holl,
VZLU

*General Aviation – Czech
Republic on the move*

Jaroslav Ruzicka, Evektor

*Research Investment &
Commercial Success:*

*Piaggio Aero Industries
Experience*

***Aniello Cozzolino,** Piaggio
Aero Industries

*The Swiss Aeronautics
Industry*

Albert Gaide, Swiss
Aeronautical Industries
Group

*Technologies for Future
Business Aircraft*

N. N., Dassault Aviation

Programme – Day 2: Tuesday, 20 June 2006

15h25 – 16h45

Parallel Session 5

The Greening of Air Transport

Improving Cost Efficiency

Ensuring Customer Satisfaction, Safety and Security

Improving Cost Efficiency

A.5 Flight Physics and Flow Control

B.5 High Temperature Materials for Aero-engines

C.5 Safety Analysis and Human Factors

D.5 Advanced Onboard Systems

Gate 2

Chairperson:
Catalin Nae,
INCAS

Key Aerodynamic Technologies for Aircraft Performance Improvement (KATnet)
Geza Schrauf,
Airbus-DE

Advanced Aerodynamic Flow Control Using MEMS (AEROMEMS II)
Clyde Warsop, BAE SYSTEMS

A European Synergy for the Assessment of Wall Turbulence (WALLTURB)
Michel Stanislas, CNRS Lille

PivNet 2 – A European Collaboration on Particle Image Velocimetry for Industrial Applications
Andreas Schröder, DLR

Gate 3

Chairperson:
Xinhua Wu,
Univ. of Birmingham

Development and Validation of a Dual Strength Titanium Alloy / Dual Microstructure BLISK (DUTIFRISK)
Olaf Roder, MTU Aero Engines

Modified AL and PTAL Diffusion Coatings with Improved Oxidation and Thermomechanics (ORDICO)
Ernst E. Affelt, MTU Aero Engines

Abradable Technology for Aero-engines and Simulation of Material Behaviour (SEALCOAT)
Peter Chandler, CA Technology Ltd.

Ultra High Temperature Based Silicide Materials for Next Generation Turbines (ULTIMAT)
Stefan Drawin, ONERA

Gate 4

Chairperson:
Arnold Nathan,
Israel Aircraft Industries

Human Integration into the Life-cycle of Aviation Systems (HILAS)
Nick McDonald, Trinity College Dublin

Improvement of Safety Activities on Aeronautical Complex Systems (ISAAC)
Antonella Cavallo, Alenia Aeronautica

Aviation Safety Improvement Using Cost Benefit Analysis (ASICBA)
Andrea Raffetti, d'Appolonia (SME)

How to Better Disseminate and Exploit Results from a Large Project
Jean-Claude Dunyach, Airbus S.A.S.

Gate 5

Chairperson:
Dan Slasky,
ELOP

Adaptive Landing Gears for Improved Impact Absorption (ADLAND)
Jan Holnicki, IFTF

Reliable, Tuneable and Inexpensive Antennas by Collective Fabrication Processes (RETINA)
Volker Ziegler, EADS-Deutschland

AEROFIL: New Concept of Liquid Filters for Aeronautics Preserving Environment
Christophe Devillers, SOFRANCE

Magnetic Bearing for Aero-engines (MAGFLY)
Karl-Helmut Becker, MTU

Improving Cost Efficiency

E.5 Future Aircraft Structures

Gate 6

Chairperson:
David Phipps,
Airbus S.A.S.

Technology Application to the Near Term Business Goals and Objectives of the Aerospace Industry (TANGO) Part I: Overview and Wing
Richard Forster, Airbus S.A.S.

Part II: Specific Fuselage Achievements
Lars Fiedler, Airbus S.A.S.

Advanced Low Cost Aircraft Structures (ALCAS) – Part 1
Glenn Watson, BERAL

Advanced Low Cost Aircraft Structures – Business Jets (ALCAS) – Part 2
Philippe Vautey, Dassault Aviation

European Research Area

F.5 National Aeronautics RTD Highlights – New Member States

Gate 7

Chairperson:
Jim Lawler,
Enterprise Ireland

Aeronautics Related RTD Activities in Poland
Zbigniew Turek, Inst. of Fundamental Techn. Research, Polish Academy of Sciences

Aeronautics Related RTD Activities in Hungary
János Rácz, Hungarian Aviation Industry Foundation

Aeronautics Related RTD Support and Activities in the Baltic States
Jonas Stankunas, Vilnius Gediminas Technical University

Aerospace Research in the Czech Republic and cooperation with Europe
Jiri Hlinka, Brno Univ. of Technology

International Forum

G.5 Aeronautics RTD in the Americas

Gate 8

Chairperson:
Ralf Rudnik,
DLR

Boeing Commercial Airplanes Technologies for Performance Efficiency and Environmental Compatibility
Mark Goldhammer, Boeing Commercial Airplanes

Civil Aeronautics Research at NASA
Wayne Bryant, NASA, Langley

Aeronautics RTD Activities of Bombardier
Fassi Kafyeke, Bombardier Aerospace, Montreal

Aeronautics in Brazil
Walter Bartels, Aerospace Industries Association of Brazil

European Research Area

H.5 The “Clean Sky” Forum 1 – the Joint Technology Initiative in Aeronautics

Gate 1

Chairperson:
Jean-Pierre Barthélémy,
ASD-Europe

General Overview of JTI Structure
Dominique Ollinger, Airbus S.A.S.

JTI: The Smart Fixed Wing Aircraft Platform
Robert Hinsinger, Airbus S.A.S.

CLEAN SKY – The Aero Engine Contribution
Nick Peacock, Rolls-Royce

Green Regional Aircraft Platform
Carmelo Latella, Alenia Aeronautica

16h45 – 17h15

Coffee Break

Programme – Day 2: Tuesday, 20 June 2006

17h15 – 18h35

Parallel Session 6

The Greening of Air Transport

Improving Cost Efficiency

Ensuring Customer Satisfaction, Safety and Security

The Greening of Air Transport

A.6 Engine Emission Technology

B.6 Manufacturing Simulation

C.6 Structural Health Monitoring

D.6 Drag Reduction Technologies

Gate 2

Chairperson:
Kyriakos Papailio,
National Technical
University of Athens

Quantification of Constrained Scenarios on Aviation and Emissions (CONSAVE 2050)
Ralf Berghof, DLR

European Low Emission Combustion Technology in Aero Engines (ELECT-AE)
Ralf von der Bank, Rolls-Royce-Deutschland

Remote Sensing Technique for Aero-engine Emission Certification and Monitoring (AEROTEST)
Isabelle Vallet, AUXITROL

Aggressive Intermediate Duct Aerodynamics for Competitive and Environmentally-Friendly Jet Engines (AIDA)
Stéphane Baralon, Volvo Aero

Gate 3

Chairperson:
Michel Delanaye,
CENAERO

Monitoring, Optimisation and Control of Liquid Composite Moulding Processes (COM-PRIME)
George Maistros, INASCO Hellas

Detailed Multi-physics Modelling of Friction Steer Welding (DEEPWELD)
Laurent D'Alvise, CENAERO

Integrated Tool for Simulation of Textile Composites (ITOOOL)
Marinus Schouten, EADS-CRC

From Electric Cabling Plans to Simulation Help (FRESH)
Jacques Pere-Laperne, Algo Tech Informatique

Gate 4

Chairperson:
Christian Boller,
Sheffield University

Health Monitoring of Aircraft by Nonlinear Elastic Wave Spectroscopy (AERONEWS)
Koen Van Den Abeele,
Katholic University Leuven,
Campus Kortrijk

Structural Monitoring with Advanced Integrated Sensor Technologies (SMIST)
Clemens Bockenheimer,
Airbus-DE

Progress on Aircraft Integrated Structural Health Assessment (AISHA)
Helge Pfeiffer, METALogic

Gate 5

Chairperson:
Rolf Henke,
RWTH Aachen

Flight Reynolds Number Testing (FLIRET)
Winfried Kühn, Airbus-DE

Modelling and Design of Advanced Wing Tip Devices (M-DAW)
Alan Mann, Airbus UK

Contribution to Laminar Flow Wing Development for Future Transport Aircraft: (TELFONA)
Karl-Heinz Horstmann,
DLR

Supersonic Transition Control
Daniel Arnal, ONERA

Improving Cost Efficiency

E.6 Onboard Systems

Gate 6

Chairperson:
Pierre Froment,
Airbus S.A.S.

Power Optimised Aircraft (POA) – a Keystone in European Research in More Electric Aircraft Equipment Systems
Lester Faleiro, Liebherr Aerospace

Third Generation Digital Fluid Management System (SMARTFUEL)
Jörn Unteutsch, Autoflug

Multifunctional Technologies Applied to Onboard Systems (MULFUN)
Jesus Marcos Olaya, INASMET

European Research Area

F.6 National Aeronautics RTD Highlights

Gate 7

Chairperson:
Theo Spathopoulos,
Hellenic Aerospace Industry

Aeronautics RTD Support and Activities in Ireland
Michael Murphy, Enterprise Ireland

Aeronautical Research Niche Areas – Opportunities for the Small
Antonin Kazda, University of Zilina

Romanian RTD Potential and Capabilities in Aeronautics
Catalin Nae, Romanian National Institute for Aerospace Research, INCAS

Aeronautics Supply Chain in Greece. Public-Private Partnership – The Missing Link
Vassilis Kostopoulos, University of Patras

International Forum

G.6 Aeronautics RTD in Central and East Asia

Gate 8

Chairperson:
Jacques Périaux,
CIMNE

Long Term Vision of Aeronautics and the R&T Programmes in JAXA
Kimio Sakata, Japan Aerospace Exploration Agency (JAXA), Tokio

RTD for the Aeronautics Industry of China (AVIC1)
Jingsheng Li, Chinese Aeronautical Establishment (CAE), Beijing

RTD for the Aeronautics Industry of China Helicopter Research and Development Institute (CHRI)
Lin Zhong, CHRI

R&D Activities in Aeronautics in the Republic of Kazakhstan
Pavel V. Kozlenko, RSE Kazaeronav

European Research Area

H.6 The “Clean Sky” Forum 2 – the Joint Technology Initiative in Aeronautics

Gate 1

Chairperson:
Georg Rayczyk,
Liebherr Aerospace

Green Rotorcraft Platform of the Clean Sky JTI
Giuseppe Pagnano, Agusta & **Yves Favennec**, Eurocopter

JTI – Systems for Green Operation
Joseph Huysse, Thales Avionics & **Lester Faleiro**, Liebherr

The Eco-Design JTI Platform
Bruno Stoufflet, Dassault Aviation

JTI: Technology Evaluator
Bruno Stoufflet, Dassault Aviation

Closing Remarks
Liam Breslin, Head of Aeronautics Research, European Commission, DG RTD



➤ Programme – Day 3: Wednesday, 21 June 2006

08h30 – 09h30 Plenary Session 4 (Gate 1)

Chairperson: **Herbert Josef Allgeier**, retired Director General, European Commission, JRC

Very Light Jets - A New Dimension in Aeronautics

Christian Dries, CEO Diamond Aircraft Industries

Aerospace Societies for Europe – A Challenge for the next Generation

Jean Michel Contant, Vice-President Foreign Relations, Council of European Aerospace Societies (CEAS)

Programme – Day 3: Wednesday, 21 June 2006

9h35 – 10h55

Parallel Session 7

The Greening of Air Transport

A.7 Improving Aero-engine Efficiency

Gate 2

Chairperson:
Hermann Scheugenpflug*,
MTU Aero Engines

Turbine Aero-Thermal External Flows (TATEF2)
Thomas Coton, SNECMA

Instability Control of Low-Emission Aero Engine Combustors (ICLEAC)
Lorenzo Hernandez,
Turbomeca

Fluid Flow and Heat Transfer within the Rotating Internal Cooling Air System of Gas Turbines (ICASGT2)
Colin Young, Rolls-Royce

ADVACT: Advanced Actuation in Gas Turbine Applications
Mike Hirst, Rolls-Royce

Improving Cost Efficiency

B.7 Onboard Electronics and Avionics

Gate 3

Chairperson:
Pascale Olivaux,
Thales Avionics

Validation Platform for Integration of Standardised Components, Technologies and Tools in an Open, Modular and Improved Aircraft Electronic System (VICTORIA)
Joseph Huysseune, Thales Avionics

High Stability Altimeter System for Air Data Computers (HASTAC)
André Larsen, Memscap AS

The Business Case for Electronic Flight Bag (EFB) and Connected Aircraft Technology
Stephen Hardgrave,
Aircraft Management Technologies

Advanced Technologies for Networking in Aeronautical Applications (ATENAA), a EC funded STREP Project (FP 6)
Massimiliano Amirfeiz,
Selex Communications S.p.A.

Ensuring Customer Satisfaction, Safety and Security

C.7 Security

Gate 4

Chairperson:
Tjien Khoen Liem,
European Commission,
DG ENTR

Security of Aircraft in the Future European Environment (SAFE)
Daniel Gaultier, SAGEM

PALMA: Protection of Airlines against MANPADS Attacks
Gilles Fournier, EADS CCR

Improving Airport Efficiency, Security and Passenger Flow by Enhanced Passenger Monitoring (OpTag)

Bob Lloyd, Innovation Research and Technology

Protection of Air Transportation and Infrastructure PATIN – The Approach for a systematic Integration of a Protection Concept in the Field of Air Transportation and its Critical Infrastructure
Michael Langer, Diehl

Improving Cost Efficiency

D.7 Manufacturing Processes

Gate 5

Chairperson:
***André Bertin,**
SONACA

Economic Advanced Shaping Processes for Integral Structures (ECOSHAPE)

Tobias Hornfeck, EADS-Deutschland

Optimisation of Spray-Forming of Advanced High-Quality Components of Superalloys for Aeronautic Application

Oscar Caballero, Industria de Turbo Propulsores, S.A.

Development and Innovation for Advanced Manufacturing of Thermoplastics (Achievements of FP6)

Patrice Lefebure, EADS CCR

Magnesium Castings for Aircraft

Shlomo Ramati, Israel Aircraft Industry

Improving Cost Efficiency

E.7 Numerical Flow and Noise Simulation

Gate 6

Chairperson:
Michael Leschziner,
Imperial College London

DESider – Hybrid RANS – LES methods

Werner Haase, EADS-Deutschland

Flow Physics Modelling – an Integrated Approach

Thomas Rung, TU Hamburg-Harburg

The CoJeN Project-Development and Validation of Tools for Predicting Coaxial Jet Noise

Craig Mead, QinetiQ

Towards Significant Reduction of Aircraft Engine Noise: Results from the AROMA, MESSIAEN and TURNEX projects

Jean-Louis Migeot, Free Field Technologies

European Research Area

F.7 National Aeronautics RTD Highlights

Gate 7

Chairperson:
Jürgen Wild,
retired Director AGARD (RTO)

Aeronautics Related R&D Support and Activities in Sweden

Hans Christer Olson, Swedish Ministry of Industry

The Aeronautical Sector in the Netherlands – a National Approach in a European Framework

H.J. L van Leeuwen, Netherlands Agency of Aerospace Programs (NIVR)

The Austrian Contribution to the European Research Area in Aeronautics

Andreas Geisler, FFG

Aeronautics related RTD Support and Activities in Spain

Juan Carlos Cortes, Centre of Technological Industrial Development, CDTI

European Research Area

G.7 FP7 – New opportunities for research

Gate 1

Chairperson:
Liam Breslin,
European Commission, DG RTD

FP7 Rules for Participation

Eva Valle Lagares, European Commission, DG RTD

FP7– Support for Training and international cooperation

Arnoldas Milukas, European Commission, DG RTD

Support for Research Infrastructures of European Interest in FP7

Panayotis Moschopoulos, European Commission, DG RTD

Aeronautics Research in FP7

Dietrich Knoerzer, European Commission, DG RTD

10h55 – 11h25

Coffee Break

11h25 – 13h00

Closing Session: Aeronautics 2020 – Implementing the Future

Chairperson:

Ingolf Schädler, Deputy Director General for Innovation, Austrian Federal Ministry of Transport, Innovation and Technology BMVIT

Speakers:

Eduard Mainoni, Secretary of State, Austrian Federal Ministry of Transport, Innovation and Technology BMVIT

Krzysztof Jan Kurzydowski, Undersecretary of State, Polish Ministry of Education and Science

Zoran Stančić, Deputy Director General for Research, European Commission

François Quentin, Co-Chairman of ACARE and Senior Vice President Aerospace, THALES

Alain Garcia, Executive Vice President Engineering, Airbus S.A.S.

Ric Parker, Director of Research and Technology, Rolls-Royce

13h00

Conference Sessions and Exhibition Closing Afternoon Conference Excursions (see page 29 for more information)

Excursion 1:

Diamond Aircraft Industries – General Aviation Aircraft Manufacturer

www.diamond-air.at

Wiener Neustadt

Excursion 2:

Modern Aircraft Maintenance – Austrian Airlines – Aircraft Maintenance Centre

www.austriantechnik.at

Schwechat-Airport, Vienna

Excursion 3:

Innovative Avionics Technology for Optimised Aircraft Efficiency, TTTech

www.tttech.com

Vienna

Excursion 4:

Aerospace Materials Technology Testhouse & Research Network – Austrian Research Centers

www.arcs.ac.at

Seibersdorf

Technical excursions

Conference participants and journalists will be invited to have a first-hand look at some of Austria's world-class aeronautics and research facilities via a series of stimulating technical visits.

Excursion 1: Advanced Aircraft Production

Diamond Aircraft Industries (www.diamond-air.at), Wiener Neustadt

Diamond Aircraft Industries is a worldwide composite aircraft manufacturer, with offices in major centres across North America, Europe, Asia and Australia. The company's head office is located in Wiener Neustadt, where research and development operations are also conducted. A guided tour will include the production lines of two- and four-seater, single- and twin-engine aircraft.

Excursion 2: Modern Aircraft Maintenance

Austrian Airlines, Aircraft Maintenance Centre (www.austriantechnik.at), Schwechat Airport

The Aircraft Maintenance Centre provides full technical handling of aircraft at Vienna International Airport, based on international quality standards requirements. A guided tour will take visitors through wheel and brake repair shops, the engine room and hangars, as well as cargo facilities, the general aviation terminal and the fire station at Vienna Airport.

Excursion 3: Innovative Avionics Technology for Optimised Aircraft Efficiency

TTTech (www.tttech.com) Vienna

TTTech is the leading supplier of technology in the field of time-triggered systems. Its core technology, the 'Time-Triggered Architecture' (TTA), is a dependable platform for safety-critical applications that considerably improves real-time data communication with respect to safety, cost, and productivity. TTTech Management will present the company's Time-Triggered Technology, including hardware and aerospace applications.

Excursion 4: Aerospace Materials Technology Testhouse & Research Network

Austrian Research Centers (www.arcs.ac.at), Seibersdorf

Austrian Research Centers (ARC) is a high-performance and use-oriented research and service company, with 995 employees at locations in Austria. This excursion features a presentation of ARC aerospace activities, including: powder technology, PIM; hydro/pulse and re-entry test facilities, development of ceramics; mechanics with acoustic emission, health monitoring; SEM, FIB analytics, nanomodified composites and coatings; Space tribology; and FEPP ion propulsion.





More information on excursions available at the Registration Desk

Exhibition

A state-of-the-art exhibition is among the highlights of Aeronautics Days 2006. Hi-tech displays, demonstrations and information stands cover every aspect of current aeronautics R&D, with special emphasis on the added value of coordination within the European Research Area (ERA).






Achievements of Community-funded Aeronautics Research under the EU's Fifth and Sixth Research Framework Programmes will be presented, with displays citing specific and significant contributions to the future aeronautics and Air Transport technology base.

Themes include:

-  Pioneering the Air Transport of the future;
-  Improving cost and time efficiency;
-  Greening of Air Transport;
-  Customer satisfaction, safety and security.

The exhibition also provides clear information and insights into future developments and opportunities, with information on the Advisory Council for Aeronautics Research in Europe (ACARE), whose Strategic Research Agenda (SRA) remains the primary guide for future EU research, and a preview of the Union's next Framework Programme, FP7, set for launch in 2007.

More exhibition highlights:

-  Austrian industry and research institutions;
-  European Commission and the Seventh Research Framework Programme;
-  European Aeronautics Research multipliers;
-  New EU Member States – aeronautics capabilities;
-  Student forum and competition.

New Member States to shine

Also featured, for the first time at an event of this order, will be the unique history and expertise of several of the New EU Member States in the field of aeronautics. Not without ambition, these recent contributors to the ERA are promoting bold initiatives in research and development, as well as in production.

Finally, Austria, the Aeronautics Days 2006 host country, will present its own increasing contributions to the European aeronautics sector. By all accounts, this small Alpine country, not on most people's shortlist of aerospace powers, has a significant role to play when it comes to European aeronautics research and innovation.

Social Programme

Aeronautics Days 2006 highlights Vienna

Vienna has been a major conference centre since the 'Congress of Vienna' in 1815, when it hosted the peace talks that ended the Napoleonic Wars. Since then, the city has confirmed its place as one of the top-ranking conference destinations in the world. Of course, no one should come to Vienna without seeing some of the sites that have made it one of the world's great cities. The organisers of Aeronautics Days have made sure participants can do just that. Starting with an elegant reception at one of the world's most famous and spectacular art museums, the conference's social programme is sure to both enchant and enlighten.

Reception at the Kunsthistorisches Museum

Vienna's 'Museum of Art History' houses one of the most spectacular collections of fine and decorative arts in the world. Set in a palatial building crowned with a 60-metre-high octagonal dome, the museum was opened in 1891 by Emperor Franz Joseph I of Austria-Hungary and was meant to provide a suitable shelter for the Hapsburgs' formidable art collection. The interior is lavishly decorated with marble, stucco ornamentations, gold leaf, and paintings, making it a spectacular work of art in its own right.

The Austrian Presidency and Rolls-Royce are inviting all Aeronautics Days participants to an opening reception at the museum on 19 June. Guests will have the opportunity to visit part of the museum's collections, ranging from ancient Egyptian, Greek and Roman antiquities to medieval art and the splendid renaissance and baroque collections.

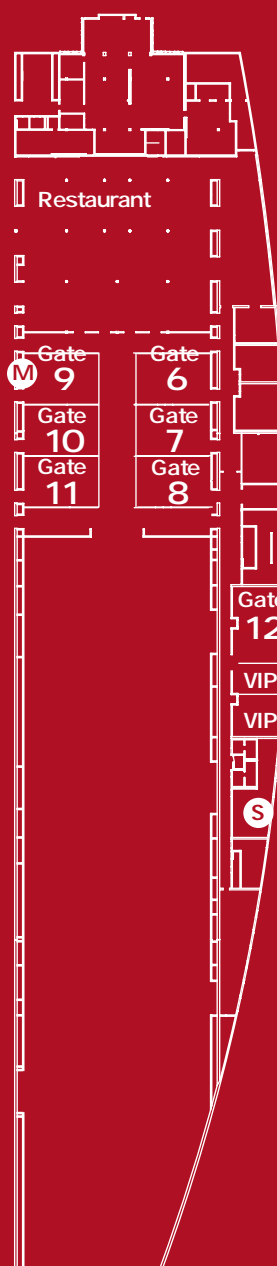
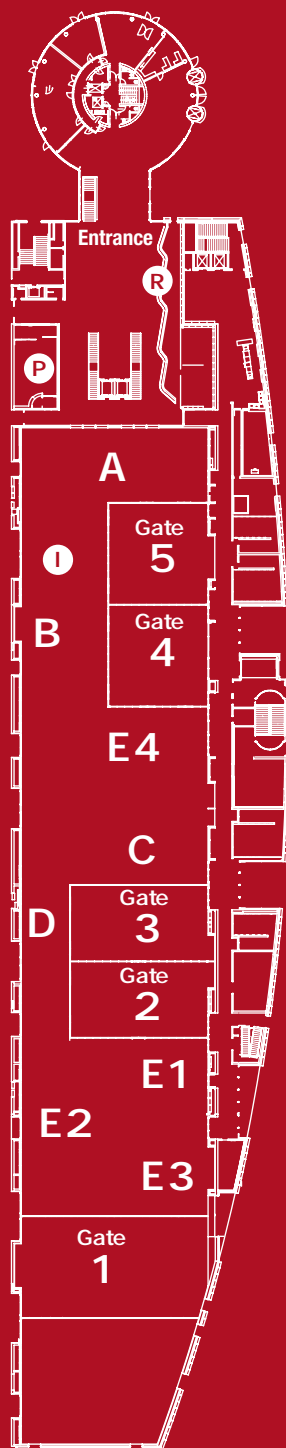
Banquet at Vienna's City Hall

The mayor of Vienna, the Austrian Presidency of the European Council will host a gala dinner with musical accompaniment at the city's magnificent City Hall on 20 June. The impressive building houses the office of the mayor and the governor of the state of Vienna as well as the Assembly and the City Council. Built in a neo-Gothic style by Friedrich von Schimdt between 1872 and 1883, the 100-metre-tall edifice is the most important secular work of its style in the city.

Ground floor

First floor

- R** Registration Desk
- P** Press Working Room
- I** European Commission / Austrian Presidency Information Desk and institutional area (EC, BMWIT, FFG, ARC)
- S** Speakers Room
- M** Media Briefing Room



Exhibition Guide

A: Austrian Industry and Research Institutions

AMAG rolling GmbH
Austrian Research Centers GmbH - ARC
BÖHLER Bleche GmbH
BÖHLER EDELSTAHL GMBH
Böhler Schmiedetechnik GmbH & CoKG
Fischer Advanced Composite Components AG
FREQUENTIS GmbH
hico Informations- und Kommunikations-Management Gesellschaft m.b.H.
HTP Fohnsdorf GmbH
ISOVOLTA AG
MAGNA STEYR AG & Co KG
MCE AG
Pankl Racing Systems AG
Schiebel Elektronische Geraete GmbH
Ing. Fritz Fuchs Ges.m.b.H.
TTTech Computertechnik AG
University of Vienna, Institute for Environmental Health
V.I.T. - Engineering GmbH
Wild GmbH

B: EU Aeronautics Research Multipliers

ACARE
AEROSME
AIR TN
ECARE
EREA
GARTEUR

C: Student Project Competition

(40 student projects from all over Europe)

D: New Member States

CZECH REPUBLIC
LATVIA
MALTA
POLAND
ROMANIA
SLOVAKIA
SLOVENIA

E: EU-Funded Research in Aeronautics

E1: Improving Time and Cost Efficiency

AGEFORM

ALCAS
COCOMAT
COMPROME
EMMA
EWA / FLIRET / REMFI
FUBACOMP
IPAS
ITOOL
SUPERTRAC
SYNAMEC
ULTMAT
VICTORIA
WEL AIR

E2: Customer Satisfaction, Safety and Security

AROSATEC
ASICBA
CABIN AIR
FLYSAFE
HASTAC
ICE
ISAAC
ORACE
PATIN
SAFEE
SANTANA
SIRENA

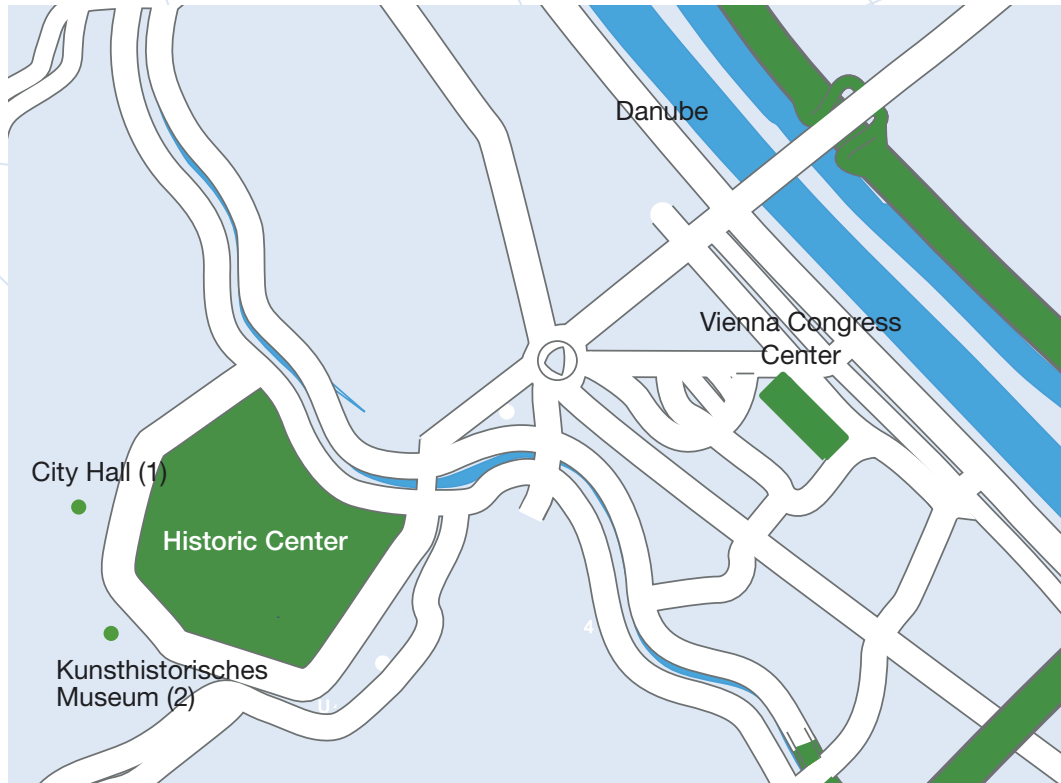
E3: The Greening of Air Transport

AERONET
AIDA
IDEA
SEALCOAT
VITAL
X NOISE

E4: Pioneering the Air Transport of the future

AD 4
ARTIMA
AWIATOR
B-VHF
C-ATM
FRESH
GATE TO GATE
IFATS
UAV NET
WAKE VORTEX RESEARCH

➤ Event venues



(1) Monday, 19 June:

Kunsthistorisches Museum
Main building, Maria Theresien-Platz, 1010 Vienna

(2) Tuesday, 20 June:

Vienna City Hall, Festsaal
Entrance: 1010 Vienna, Lichtenfelsgasse 2, Feststiege I

➤ More information

For news and information on all aspects of EU-funded aeronautics research, see the EU Aeronautics Research website:
http://ec.europa.eu/research/aeronautics/index_en.html

Austrian Council Presidency website:
<http://www.eu2006.at/en/>



Notes:



➤ Notes:



→ Contact details Aeronautics Days 2006

More information:
<http://www.aerodays2006.org/>

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