

Overview of the Programme

Venue: Vienna Congress Center / Austria

Date: 19th - 21st June 2006

Day 1 Monday, 19th June 2006

Status: 16.06.06

09h00 Registration and Welcome Coffee

11h00 – 13h00 Opening Ceremony and Plenary Session

Chairpersons: Knut Consemüller, Chairman of Austrian Council for Research and Technology Development

Welcome Addresses

- Hubert Gorbach, Chairman of the European Transport Council, Vice-Chancellor and Austrian Minister for Transport, Innovation and Technology
- Janez Potocnik, 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
- Joachim Szodruich, ACARE-Co-chairman, EREA vice-chairman, President of DGLR
- Victor Aguado, General Director, Eurocontrol
- Fernando Pinto, Past Chairman of Association of European Airlines and CEO of TAP Air Portugal

**) invited*

13h00 – 13h15 Exhibition opening

13h15 – 14h30 Lunch

14h30 – 15h00 Plenary Session 1

Chairperson: Fred Abbink, NLR

- The Airbus A380 - Towards a New Future for Air Transport

Dieter Schmitt, Airbus S.A.S.

* blue = invited Authors - but haven't confirmed yet

15h05 - 16h25						
Parallel Session 1						
<i>The Greening of Air Transport</i>	<i>Improving Cost Efficiency</i>	<i>Ensuring Customer Satisfaction, Safety and Security</i>	<i>Increasing Time Efficiency</i>	<i>Pioneering the Air Transport of the Future</i>	<i>European Research Area</i>	<i>European Research Area</i>
<p>Session A.1 Investigation of Climate Effects Chairperson: Roger Gardner, Department of Transport, UK</p> <p>- Aviation and climate change: options for mitigation <i>Ulrich Schumann, DLR</i></p> <p>- AERONET: Aircraft Emission and Reduction Technologies <i>Alf Junior, DLR</i></p> <p>- AERO2k Aviation Global Emissions Inventory – 2002 & 2025 <i>Chris Eyers, Qinetiq</i></p> <p>- QUANTIFY: Quantifying the Climate Impact of Global and European Transport Systems <i>Veronika Eyring, DLR</i></p>	<p>Session B.1 Integrated Design & Validation Chairperson: Philippe Homsy, Airbus-SAS</p> <p>- Value Improvement through a Virtual Aeronautical Collaborative Enterprise (VIVACE) <i>Jean-Claude Dunyach, Airbus SAS</i></p> <p>- VIVACE integrated technical results <i>Yves Baudier, EADS CRC-F</i></p> <p>- Installed Performance of Antennas on AeroStructures (IPAS) <i>Thereza Macnamara, BAE Systems</i></p> <p>- SYNAMEC – Synthesis Tool for Aeronautical Mechanisms Design <i>Alain Remouchamps, SAMTECH</i></p>	<p>Session C.1 Cabin Environment Chairperson: David Zammit Mangion, University of Malta</p> <p>- Vision for Improved Passenger Services <i>Reiner Rückwald, Airbus-DE</i></p> <p>- Friendly Aircraft Cabin Environment (FACE) <i>Antonio Paonessa, Alenia Aeronautica</i></p> <p>- Improving Air Quality in Aircraft Cabins Using 'Measurements in the Sky' and Innovative Designs and Technologies (CABINAIR) <i>David Ross, Building Research Establishment</i></p> <p>- ICE: Ideal cabin environment for health in passenger-carrying commercial aircraft – especially in long-haul flights <i>David Ross, Building Research Establishment</i></p> <p>- Influence of cabin and cockpit environment on wellbeing and performance of flight and cabin crew – results from the HEACE project <i>Volker Mellert, University of Oldenburg</i></p>	<p>Session D.1 Air Traffic Management Chairperson: Luigi Iodice, SELEX</p> <p>- 6th Framework Aeronautics: Input into the European ATM Medium Term Concept of Operations - Cooperative ATM <i>Andy Barff, EUROCONTROL Experimental Centre</i></p> <p>- Cooperative Approach to ATS (CAATS) <i>Marcial Valmorisco, ISDEFE</i></p> <p>- Airborne New and Advanced Satellite techniques & Technologies in a System Integrated Approach (ANASTASIA) <i>Jean-Yves Catros, Thales Avionics</i></p> <p>- Broadband VHF Aeronautical Communications System Based on MC-CDMA (B-VHF) <i>Christoph Rihacek, Frequentis</i></p> <p>- Gate-to-Gate <i>Dominique Egron, Thales ATM</i></p>	<p>Session E.1 New Aircraft Concepts Chairperson: Zdobyslav Goraj, Warsaw Univ. of Technology</p> <p>- Challenges and potential of BWB configurations (Results of the project VELA – Very Large Aircraft) <i>Nikolai Kresse, Airbus DE</i></p> <p>- New Aircraft Concepts Research (NACRE) <i>Pierre Emmanuel Gall, Airbus S.A.S.</i></p> <p>- HTP & HTP Remote Control System with Elevator – Rear Fuselage Gap Sealing System Design for REMFI Programme <i>Jesús de Pablo Pérez, Airbus Spain & B. Hildebrand, ETW & M Schultz, ETW</i></p> <p>- Environmentally Friendly High Speed Aircraft (HISAC) <i>Patrick Parnis, Dassault Aviation</i></p>	<p>Session F.1 European Strategy Chairperson: Elisabeth Huchler, Austrian Federal Ministry for Transport, Innovation and Technology, BMVIT</p> <p>- ACARE: The Observation Platform of the Strategic Research Agenda <i>Luigi Botasso, ASTERA/ ASD</i></p> <p>- GARTEUR overview on current activities <i>Bas Oskam, National Laboratory NLR</i></p> <p>- AirTN - The ERA-Net in Aeronautics <i>Walter Riha, DLR</i></p> <p>- Research on Fault Tolerant Controls within GARTEUR <i>Hafid Smaili</i></p>	<p>Session G.1 Round Table Session: Aerospace Clusters Contributing to the Aeronautics Supply Chain <i>Chairperson: Thilo Schönfeld, CNRT-AE</i></p> <p><i>Participants:</i></p> <p>- <i>François Jouaillec, Aerospace Valley Midi-Pyrénées-Aquitaine (Moderator)</i></p> <p>- <i>Ute Sachau Böhmert, Aerospace Cluster Hamburg.</i></p> <p>- <i>José Juez, HEGAN Aerospace Cluster Basque Country</i></p> <p>- <i>Philippe Schleicher, Walloon Aeronautical Cluster (EWA)</i></p> <p>- <i>Pierre-Manuel Jacob, Walloon Aeronautical Cluster (EWA)</i></p> <p>- <i>Andrzej Rybka, Aviation Valley Southeast Poland</i></p> <p>- <i>Paola Chiarini, AeroSME/ ASD</i></p>
16h25 - 16h55						
Coffee Break						



16h55 - 18h15

Parallel Session 2

<i>The Greening of Air Transport</i>	<i>Improving Cost Efficiency</i>	<i>Ensuring Customer Satisfaction, Safety and Security</i>	<i>Increasing Time Efficiency</i>	<i>Pioneering the Air Transport of the Future</i>	<i>European Research Area</i>	<i>European Research Area</i>
<p>Session A.2 Aero-engine Combustor Technologies Chairperson: Valérie Guéron, SAFRAN</p> <p>- Integrated Lean Low Emission Combustor Design Methodology (INTELLECT DM) <i>Ralf von der Bank, Rolls-Royce</i></p> <p>- MUSCLES - Modelling of UnSteady Combustion in Low Emission Systems <i>Helen Brocklehurst, Rolls-Royce</i></p> <p>- Towards Lean Combustion (TLC) <i>Thomas Noel, SNECMA</i></p> <p>- The Low-Pollutant Combustor Technology Programme LOPOCOTEP <i>Olivier Penanhoat, SNECMA, Thomas Noel, SNECMA</i></p>	<p>Session B.2 Improving aircraft Performance Chairperson: Zdobyslaw Goraj, Warsaw Univ. of Tech.</p> <p>- The European R&T Platform AWIATOR: Bringing New Aircraft Technologies Into The Air <i>Jens König, Airbus DE</i></p> <p>- The role of the European Research Establishments in AWIATOR on examples from flight test measurements technologies <i>Eric Coustols, ONERA</i></p> <p>- European High Lift Programme (EUROLIFT) <i>Ralf Rudnik, DLR</i></p> <p>- NEFA Project-Assessment and comparison of new empennage concepts for transport aircraft <i>Jean-Jacques Mirat, Airbus SAS</i></p>	<p>Session C.2 External Hazard and Accident Survivability Chairperson: Thereza Macnamara, BAE Systems</p> <p>- Airborne Integrated Systems for Safety Improvement, Flight Hazard Protection and All Weather Operations (FLYSAFE) <i>Joseph Huysseune, Thales Avionics</i></p> <p>- SIRENA: an Efficient 3D Approach for External EMC Simulation in the Close Environment of the Airport <i>Nicolas Douchin, Oktal</i></p> <p>- SANTANA – Smart Antenna for Broadband Mobile Satellite Communications at Ka-Band <i>Achim Dreher, DLR</i></p> <p>- Crashworthiness of Aircraft for High Velocity Impact (CRAHVI) <i>Timothy Brown, BAE Systems</i></p>	<p>Session D.2 Airports and ATM Chairperson: Christian Pusch, Eurocontrol</p> <p>- Supporting Platform for Airport Decision-Making and Efficiency Analysis (SPADE) <i>Michel van Eenige, NLR</i></p> <p>- Optimized Procedures and Techniques for Improvement of Approach and Landing (OPTIMAL) <i>Yohann Roux, Airbus SAS</i></p> <p>- 4D Virtual Airspace, from present to future ATC (AD4) <i>Luigi Mazzucchelli, Next – Ingegneria dei Sistemi</i></p> <p>- European Airport Movement Management by A-SMGCS (EMMA) <i>Michael Roeder, DLR</i></p>	<p>Session E.2 Breakthrough Technologies Chairperson: Bruno Stoufflet, Dassault Aviation</p> <p>- LAPCAT: Vehicle and Propulsion Aspects for Sustained Supersonic Flight <i>Johan Steelant, European Space Agency</i></p> <p>- Fuel Cell Application in a New Configured Aircraft (CELINA) <i>Christine Schilo, Airbus DE</i></p> <p>- Fundamentals of actively controlled flows with trapped vortices (VORTEXCELL 2050) <i>Sergei I. Chernyshenko, University of Southampton</i></p> <p>- Aircraft Reliability Through Intelligent Materials Application (ARTIMA) <i>Gregorio Kawiecki, Gamesa</i></p>	<p>Session F.2 National Aeronautics RTD Highlights Chairperson: Wolf Günther, BMWi</p> <p>- Aeronautical Research Efforts towards Green Technologies in France and Europe <i>Jean-Luc Tinland, DPAC</i></p> <p>- The UK National Aerospace Technology Strategy <i>Ray C. Kingcombe, UK Department of Trade & Industry</i></p> <p>- Integration of aeronautics RTD on European, national and regional level <i>Franz-Josef Mathy, Germany</i></p> <p>- ACARE-Italia and the Italian National Programme for Aeronautics <i>Marciello Amato, CIRA/ Italy</i></p>	<p>Session G.2 Future Air Transport - User Aspects Chairperson: Johann Zemsky, COO / Austro Control</p> <p>- Designing the Aircraft of Tomorrow <i>Karl Echtermeyer, Deutsche Lufthansa AG</i></p> <p>- Sustainability of Airport Development <i>Herbert Kaufmann, Vienna International Airport</i></p> <p>- Commercial Aircraft Developments in Israel Aircraft Industry <i>Arnold Nathan, Israel Aircraft Industry</i></p>

20h00

Reception at the Kunsthistorisches Museum

Day 2: Tuesday, 20th June 2006

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8h30 - 9h30

Plenary Session 2

Chairperson: Klaus Pseiner, Austrian Research Promotion Agency FFG

- SESAR and other Initiatives

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

- NGATS Initiative (USA)

Peggy Gervasi, Joint Planing and Development Office, Federal Aviation Administration

09h35 - 10h55

Parallel Session 3

<i>The Greening of Air Transport</i>	<i>Improving Cost Efficiency</i>	<i>Ensuring Customer Satisfaction and Safety</i>	<i>Increasing Time Efficiency</i>	<i>Pioneering the Air Transport of the Future</i>	<i>European Research Area</i>	<i>European Research Area</i>	<i>The "SESAR" Forum</i>
<p>Session A.3 External Noise Reduction Chairperson: Dominique Collin, SNECMA</p> <ul style="list-style-type: none"> - Aircraft External Noise Network (X-NOISE) <i>Dominique Collin, SNECMA</i> - Significantly Lower Community Exposure to Aircraft Noise (SILENCE(R)) <i>Eugene Kors, SNECMA</i> - Turbo machinery Noise Radiation through the Engine Exhaust (TURNEX) <i>Brian J. Tester, Southampton University</i> - SOURDINE (I & II) - Study of Optimisation Procedures for Decreasing the Impact of Noise around Airports II, <i>Collin Beers, NLR</i> - Aircraft Noise Modelling with Imagine: meeting the requirements of the European Noise Directive <i>Peter Hullah, EUROCONTROL</i> 	<p>Session B.3 Composite Structures Chairperson: Spiros Pantelakis, University of Patras</p> <ul style="list-style-type: none"> - Findings of the FUBACOMP Project and Links to new Developments in the ALCAS Project <i>Philippe Vautey, Dassault Aviation</i> - Improved Material Exploitation at Safe design of Composite Airframe Structures by Accurate Simulation of Collapse (COCOMAT) <i>Richard Degenhardt, DLR</i> * Failure, Performance and Processing Prediction for Enhanced Design with Non-Crimp Fabric Composites (FALCOM) <i>Charlotte Meeks, QinetiQ</i> - Hierarchical Modelling of Composite Aircraft Components <i>Dieter Pahr, TU Wien</i> 	<p>Session C.3 Wake Vortex Investigations Chairperson: Volker Heil, DFS</p> <ul style="list-style-type: none"> - <i>The European Wake Vortex Activities (Wake-Net 2- Europe)</i> <i>Bram Elsenaar, NLR retired</i> - Fundamental Research on Aircraft Wake Phenomena (Far-Wake) <i>Thomas Leweke, CNRS Marseille</i> - ATC-Wake - Integrated Air Traffic Control Wake Vortex Safety and Capacity System <i>Lennaert Speijker, NLR</i> - Wake Vortex Research in the US (Wake-Net USA) <i>Steve Lang, FAA & Wayne Bryant, NASA</i> - FIDELIO – the next generation on-board wake vortex detection system <i>Dan Slasky, ELOP Industries</i> 	<p>Session D.3 Point to Point Air Transport Chairperson: Guisepp Pagnano, AGUSTA</p> <ul style="list-style-type: none"> - Active Control Technologies for Tilt rotor, major step towards Civil Tilt-Rotor transport (ACT-TILT) <i>Philippe Rollet, Eurocopter France</i> - Design Advance rotor for Tilt Rotor, Major step towards Civil Tilt-Rotor Transport (DART) <i>Christophe Serr, Eurocopter</i> - Tilt-rotor Interactional Aerodynamics (TILTAERO) <i>Antonio Saporiti, Agusta</i> - Validation of Tilt Rotor technology (NICE-TRIP) <i>Antonio Saporiti, Agusta</i> 	<p>Session E.3 Towards a Fully Automatic ATS Chairperson: Vu Duong, EUROCONTROL</p> <ul style="list-style-type: none"> - Civil and Commercial UAV Thematic Network <i>Mark Okrent, Israel Aircraft Industries</i> - Innovative Future Air Transport System (IFATS) <i>Claude Le Tallec, ONERA</i> - UAV Safety Issues for Civil Operations (USICO) <i>Reimund Kueke, AIROBOTICS</i> - Civil UAV Application and Economic Effectiveness of Potential Configuration Solutions (CAPECON) <i>Akiva Peled, Israel Aircraft Industries</i> 	<p>Session F.3 Integrated Research Infrastructures Chairperson: Erich Gornik, Austrian Research Centers</p> <ul style="list-style-type: none"> - EREA Capabilities in European Aeronautics R&D <i>F.J. Abbink, NLR</i> - European Wind Tunnel Association: two years activity <i>Jean-Marc Bousquet, ONERA</i> - ECATS – European Network of Excellence for an Environmental Compatible Air Transport System <i>Sigrun Matthes, DLR</i> - Centres of Excellence in Aeronautics RTD in Poland <i>Janusz Narkiewicz, Warsaw Univ. of Technology</i> 	<p>Session G.3 Aeronautics RTD in Commonwealth of Independent States Chairperson: Sergey Chernyshev, TsAGI</p> <ul style="list-style-type: none"> - Aeronautics RTD in Russia an Overview <i>Sergey Lyapunov, TsAGI, Russia</i> - Russian SME in the area of Aeronautics <i>Sergey Trofimov, Monitor Soft Ltd. & Nikolay Testoyedov, NPO PM Razvitie, Russia</i> - The Basic Aviation Scientific Research in Azerbaijan <i>Ramiz A. Sadiqov, Azerbaijan National Aviation Academy, Baku</i> - Aviation of Ukraine. Its formation and development <i>Volodymyr Kryvtsov, University of Ukraine, Kharkiv</i> 	<p>Session H.3 The Joint European Concept in Air Traffic Management Chairperson: Ben Van Houtte, EC DG TREN</p> <ul style="list-style-type: none"> - General Overview of SESAR Structure <i>Patrick Ky, European Commission (DG TREN)</i> - ATM R&D: vision of the future <i>Jan Van Doorn, Eurocontrol</i> - New ATM challenges for the Industry <i>Jean-Claude Richard, Air Traffic Alliance</i> - Users expectations for new generations ATM <i>Fritz Feitl, Single European Sky Industries Consultation Body</i>

10h55 - 11h25

Coffee Break



11h25 - 12h50

Parallel Session 4

<i>The Greening of Air Transport</i>	<i>Improving Cost Efficiency</i>	<i>Ensuring Customer Satisfaction, Safety and Security</i>	<i>Increasing Time Efficiency</i>	<i>Improving Cost Efficiency</i>	<i>European Research Area</i>	<i>European Research Area</i>
<p>Session A.4 Propulsion Systems and Emission Reduction Chairperson: Franz Heitmeir, TU Graz</p> <p>- Overview speech: New Aero-engine Concepts <i>Günter Wilfert, MTU Aero Engines</i></p> <p>- ANTEL- An Integration of European and National research programmes to the benefit of the European aero-engine supply chain <i>Nick Peacock, Rolls-Royce</i></p> <p>- CLEAN - Validation of a High Efficient Low NOx core, a GTF High Speed Turbine and an Integration of a Recuperator in an Environmentally Friendly Engine Concept <i>Günter Wilfert, MTU Aero Engines</i></p> <p>- Environmentally Friendly Aero Engine (VITAL) <i>Jean-Jacques Korsia, SNECMA</i></p>	<p>Session B.4 Technology for Metallic Structures Chairperson: Heinz Voggenreiter, DLR</p> <p>- Leading the way with advanced aluminium solutions for aerospace structures <i>Frank Eberl, ALCAN</i></p> <p>- Development of Short Distance Welding Concepts for Airframes (WEL-AIR) <i>Delphine Alléhaux, EADS Corporate Research Centre</i></p> <p>- Recent Developments for Improve and Assess Repair Capability of Aircraft Structures (IARCAS) <i>George Lampeas, University of Patras</i></p> <p>- New Tools and Processes for Improving Machining of Heat Resistant Alloys Used in Aerospace Application (MACHERENA) <i>Paco Alonso, GEYCA</i></p> <p>- Innovative Fatigue and Damage Tolerance Methods for the Application of New Structural Concepts - DaToN <i>Peter Horst, TU Braunschweig</i></p>	<p>Session C.4 Maintenance Methods Chairperson: Ernst Semerad, Austrian Research Centers</p> <p>- Automated Repair and Overhaul System for Aero Turbine Engine Components (AROSATEC) <i>Claus Bremer, BCT GmbH</i></p> <p>- TATEM (Technologies and Techniques for New Maintenance Concepts) - Operational Needs and Requirements <i>Jon Dunsdon, Smith Aerospace</i></p> <p>- The TATEM Health Management Solution <i>Jon Dunsdon, Smith Aerospace</i></p> <p>- Innovative NDT Concepts for Aerospace Industry - The INCA Project <i>Sönke Seebacher, Airbus DE</i></p>	<p>Session D.4 Technologies for Future ATS Chairperson: Jan van Doorn, EUROCONTROL</p> <p>- Airborne Separation Assistance System Thematic Network 2 (ASAS-TN2): ASAS Applications Maturity Assessment <i>Chris Shaw, Eurocontrol Experimental Centre</i></p> <p>- Advanced Safe Separation Technologies and Algorithms (ASSTAR) <i>Chris Rossiter, BAE SYSTEMS</i></p> <p>- En Route Air Traffic Soft Management Ultimate System (ERASMUS) <i>Marc Brochard, Eurocontrol Experimental Centre</i></p> <p>- Operationally Driven Airspace Traffic Structure based on Dynamic Airspace and Multi-Layered Planning (SUPER HIGHWAY) <i>Nicolas Suarez, ISDEFE</i></p>	<p>Session E.4 Rotorcraft of the Future Chairperson: Yves Favennec, Eurocopter</p> <p>- The Passenger and Environmentally Friendly Helicopter (FRIENDCOPTER) <i>Valentin Kloeppe, Eurocopter-DE</i></p> <p>- Helicopter Noise and Vibration (HELINOVI) <i>Jürgen Langer, DLR</i></p> <p>- Tilt-rotor Integrated Drive System Development (TRISYD) <i>Federico Montagna, Agusta</i></p> <p>- Improving Occupant protection in case of helicopter crash (HeliSafeTA) <i>Edgar Uhl, Autoflug</i></p>	<p>Session F.4 University Networks & Students Research Chairperson: Dieter Schmitt, Airbus S.A.S</p> <p>- EASN – European Aeronautics Science Network <i>Spiros Pantelakis, University of Patras</i></p> <p>- The PEGASUS Network: an Example of Cooperation in Higher Education in Aerospace Engineering in Europe <i>Gianfranco Chiocchia, Politecnico di Torino</i></p> <p>- Best of the Student Poster Competition (presentations to be continued in the afternoon Gate 9)</p>	<p>Session G.4 General Aviation RTD highlights-Europe on the move Chairperson: Milan Holl, VZLU</p> <p>- General Aviation – Czech Republic on the move <i>Jaroslav Ruzicka, Evektor</i></p> <p>- Advanced Technologies for the Piaggio Aircraft <i>Aniello Cozzolino, Piaggio Aircraft</i></p> <p>- The Swiss Aeronautics Industry <i>Albert Gaide, SAIG & Jürg Wildi, RUAG</i></p> <p>* Technologies for Future Business Aircraft <i>N.N. Dassault Aviation</i></p>

12h50 - 14h20

Lunch

14h20 - 15h20

Plenary Session 3

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

- The 7th Framework Programme – Sustainable Solutions for New Horizons

Jack Metthey, Director Transport European Commission (DG RTD)

- ACARE, The New Issue of the Second Strategic Research Agenda for Aeronautics

Joachim Szodruich, ACARE Co-Chairman

- The “Clean Sky” Joint Technology Initiative

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

15h25 - 16h45

Parallel Session 5

<i>The Greening of Air Transport</i>	<i>Improving Cost Efficiency</i>	<i>Ensuring Customer Satisfaction, Safety and Security</i>	<i>Improving Cost Efficiency</i>	<i>Improving Cost Efficiency</i>	<i>European Research Area</i>	<i>European Research Area</i>	<i>The “Clean Sky” Forum 1</i>
<p>Session A.5 Flight Physics and Flow Control Chairperson: Catalin Nae, INCAS</p> <p>- Key Aerodynamic Technologies for Aircraft Performance Improvement (KATnet) <i>Geza Schrauf, Airbus DE</i></p> <p>- Advanced Aerodynamic Flow Control Using MEMS (AEROMEMS II) <i>Clyde Warsop, BAE Systems</i></p> <p>- An European Synergy for the assessment of wall turbulence (WALLTURB) <i>Michel Stanislas, CNRS Lille</i></p> <p>- PivNet 2- An European collaboration on development, quality assessment, and standardisation of Particle Image Velocimetry for industrial applications <i>Andreas Schröder, DLR</i></p>	<p>Session B.5 High Temperature Materials for Aero-engines Chairperson: Xinhua Wu, Univ. Birmingham</p> <p>- Development and validation of a dual strength titanium alloy / dual microstructure BLISK (DUTIFRISK) <i>Olaf Roder, MTU Aero Engines</i></p> <p>- Modified AL and PTAL diffusion coatings with improved oxidation and thermomechanics (ORDICO) <i>Ernst E. Affelt, MTU Aero Engines</i></p> <p>- Abradable technology for aero-engines and simulation of material behaviour (SEALCOAT) <i>Peter Chandler, CA Technology Ltd.</i></p> <p>- Ultra High Temperature Based Silicide Materials For Next Generation Turbines (ULTIMAT) <i>Stefan Drawin, ONERA</i></p>	<p>Session C.5 Safety Analysis and Human Factors Chairperson: Holger Friehelm, DLR</p> <p>- Human Integration into the Life-cycle of Aviation Systems (HILAS) <i>Nick McDonald, Trinity College Dublin</i></p> <p>- Improvement of Safety Activities on Aeronautical Complex Systems (ISAAC) <i>Antonella Cavallo, Alenia Aeronautica</i></p> <p>- Aviation Safety Improvement using Cost Benefit Analysis (ASICBA) <i>Andrea Raffetti, d'Appolonia (SME)</i></p> <p>- How to better disseminate and exploit results from a large project <i>Jean-Claude Dunyach, Airbus SAS.</i></p>	<p>Session D.5 Advanced Onboard Systems Chairperson: Dan Slasky, ELOP</p> <p>- Adaptive Landing Gears for Improved Impact Absorption (ADLAND) <i>Jan Holnicki, IFTF</i></p> <p>- Reliable, tuneable and inexpensive antennas by collective fabrication processes (RETINA) <i>Volker Ziegler, EADS DE</i></p> <p>- AEROFIL: New concept of liquid filters for Aeronautics preserving environment <i>Pascal Contini, SOFRANCE</i></p> <p>- Magnetic Bearing for Aero-engines (MAGFLY) <i>Karl-Helmut Becker, MTU Aero Engines</i></p>	<p>Session E.5 Future Aircraft Structures Chairperson: David Phipps, Airbus SAS.</p> <p>- Techn. Appl. to the Near Term Business Goals and Objectives of the Aerospace Ind. (TANGO) I: Overview and wing II: Specific Fuselage Achievements <i>Richard Forster, Airbus SAS & Lars Fiedler, Airbus SAS</i></p> <p>- Advanced Low Cost Aircraft Structures (ALCAS) <i>Glenn Watson, BERAL</i></p> <p>- Advanced Low Cost Aircraft Structures (ALCAS) – Buiseness Jets <i>Phillippe Vautey, Dassault Aviation</i></p>	<p>Session F.5 National Aeronautics RTD Highlights - New Member States Chairperson: Jim Lawler, Enterprise Ireland</p> <p>- Aeronautics Related RTD Activities in Poland <i>Zbigniew Turek, Inst. of Fundamental Techn. Research Polish Academy of Sciences</i></p> <p>- Aerospace Research in the Czech Republic and Cooperation with Europe <i>Antonin Pistek, Brno University of Technology</i></p> <p>- Aeronautics Related RTD Activities in Hungary <i>János Rác, Hungarian Aviation Industry Foundation</i></p> <p>- Aeronautics related RTD support and activities in the Baltic States <i>Jonas Stankunas, Vilnius Gediminas' Technical University</i></p>	<p>Session G.5 Aero RTD in the Americas Chairperson: Ralf Rudnik, DLR</p> <p>- Boeing Commercial Airplanes Technologies for Performance Efficiency and Environmental Compatibility <i>Mark Goldhammer, Boeing Commercial Airplanes</i></p> <p>- NASA's New Aeronautics Research Program <i>Wayne Braynt, NASA</i></p> <p>- Aeronautics RTD Activities of Bombardier <i>Fassi Kafyeke, Bombardier</i></p> <p>- Aeronautics in Brazil <i>Walter Bartels, Aerospace Industries Association of Brazil</i></p>	<p>Session H.5 <i>The Joint Technology Initiative in Aeronautics</i> Chairperson: Jean-Pierre Barthélémy, ASD-Eurpoe</p> <p>- General Overview of JTI Structure <i>Dominique Ollinger, Airbus SAS</i></p> <p>- JTI: The Smart Fixed Wing Aircraft Platform <i>Robert Hinsinger, Airbus SAS</i></p> <p>- CLEAN SKY—The Aero Engine contribution <i>Nick Peacock, Rolls-Royce</i></p> <p>- Green Regional Aircraft Platform <i>Carmelo Latella, Alenia Aeronautica</i></p>

16h45 - 17h15

Coffee Break



17h15 - 18h35

Parallel Session 6

<i>The Greening of Air Transport</i>	<i>Improving Cost Efficiency</i>	<i>Ensuring Customer Satisfaction, Safety and Security</i>	<i>The Greening of Air Transport</i>	<i>Improving Cost Efficiency</i>	<i>European Research Area</i>	<i>European Research Area</i>	<i>European Research Area</i>
<p>Session A.6 Engine Emission Technology Chairperson: Kyriakos Papailiou, National Technical University of Athens</p> <ul style="list-style-type: none"> - Quantification of Constrained Scenarios on Aviation and Emissions (CONSAVE 2050) <i>Ralf Berghof, DLR</i> - European Low Emission Combustion Technology in Aero Engines (ELECT-AE) <i>Ralf von der Bank, Rolls-Royce</i> - Remote Sensing Technique for Aero-engine Emission Certification and Monitoring (AEROTEST) <i>Isabelle Vallet, AUXITROL</i> - Aggressive Intermediate Duct Aerodynamics for Competitive and Environmentally Friendly Jet Engines (AIDA) <i>Stéphane Baralon, Volvo Aero</i> 	<p>Session B.6 Manufacturing Simulation Chairperson: Michel Delanaye, CENAERO</p> <ul style="list-style-type: none"> - Monitoring, Optimisation and Control of Liquid Composite Moulding Processes (COMPROME) <i>George Maistros, INASCO Hellas</i> - Detailed Multi-physics Modelling of Friction Steer Welding (DEEPWELD) <i>Laurent D'Alvise, CENAERO</i> - Integrated Tool for Simulation of Textile Composites (ITOOL) <i>Marinus Schouten, EADS-DE - CRC</i> - From Electric Cabling plans to Simulation Help (FRESH) <i>Jacques Pere-Laperme, Algo Tech Informatique</i> 	<p>Session C.6 Structural Health Monitoring Chairperson: Christian Boller, Sheffield University</p> <ul style="list-style-type: none"> - Health monitoring of aircraft by Nonlinear Elastic Wave Spectroscopy (FP 6 Project AER-ONEWS) <i>Koen Van Den Abeele, Catholic University Leuven, Campus Kortrijk</i> - Structural Monitoring with Advanced Integrated Sensor Technologies (SMIST) <i>Clemens Bockenheimer, Airbus-DE</i> - Progress on Aircraft Integrated Structural Health Assessment (AISHA) <i>Helge Pfeiffer, Catholic University Leuven</i> 	<p>Session D.6 Drag Reduction Technologies Chairperson: Rolf Henke, RWTH Aachen</p> <ul style="list-style-type: none"> - Flight Reynolds Number Testing (FLIRET) <i>Winfried Kühn, Airbus-DE</i> - Modelling and Design of Advanced Wing Tip Devices (M-DAW) <i>Alan Mann, Airbus UK</i> - Contribution to Laminar Flow Wing Development for Future Transport Aircraft: TELFONA <i>Karl-Heinz Horstmann, DLR</i> - Supersonic Transition Control <i>Daniel Arnal, ONERA</i> 	<p>Session E.6 Onboard Systems Chairperson: Pierre Froment, Airbus S.A.S.</p> <ul style="list-style-type: none"> - Power Optimised Aircraft (POA) – a keystone in European research in More Electric Aircraft Equipment Systems <i>Lester Faleiro, Liebherr Aerospace</i> - Third Generation Digital Liquid Management System (SMARTFUEL) <i>Jörn Unteutsch, Autoflug</i> - Multifunctional technologies applied to onboard systems (MULFUN) <i>Jesus Marcos Olaya, INASMET</i> 	<p>Session F.6 National Aeronautics RTD Highlights Chairperson: Adriaan de Graaff, NL</p> <ul style="list-style-type: none"> - Aeronautics RTD support and activities in Ireland <i>Michel Murphy, Enterprise Ireland</i> - Aeronautical research niche areas – opportunities for the small <i>Antonin Kazda, University of Zilina</i> - Romanian RTD Potential and Capabilities in Aeronautics <i>Catalin Nae, National Institute for Aerospace Research - INCAS</i> - Aeronautics supply chain in Greece. Public - Private partnership. The missing link <i>Vassilis Kostopoulos, University of Patras</i> 	<p>Session G.6 Aeronautics in Central and Eastern Asia Chairperson: Jacques Périaux, CIMNE</p> <ul style="list-style-type: none"> - Long Term Vision of Aeronautics and the R&T Programs in JAXA <i>Kimio Sakata, Japan Aerospace Exploration Agency (JAXA), Tokio</i> - RTD for the Aeronautics Industry of China (AVIC1) <i>Jingsheng Li, Chinese Aeronautical Establishment (CAE), Beijing</i> - RTD for the Aeronautics Industry of CHRDI <i>Liu Zhong, CHRDI</i> - R&D activities in Aeronautics in the Republic of Kazakhstan <i>Pavel V. Kozlenko, RSE Kazakhstan</i> 	<p>Session H.6 The "Clean Sky" Forum 2—The Joint Technology Initiative in Aeronautics Chairperson: Georg Rayczyk, Liebherr Aerospace</p> <ul style="list-style-type: none"> - Green Rotorcraft Platform of the Clean Sky JTI <i>Giuseppe Pagnano, Augusta & Yves Favenne, Eurocopter</i> - JTI - Systems for Green Operation <i>Joseph Huysseune, Thales Avionics & Lester Faleiro, Liebherr</i> - The "Clean Sky" Forum 2 - The Joint Technology Initiative in aeronautics ECO-DESIGN PLATFORM <i>Bruno Stoufflet, Dassault Aviation</i> - The Joint Technology Initiative in Aeronautics Eco-Design Platform <i>Bruno Stoufflet, Dassault Aviation</i> - Closing Remarks <i>Liam Breslin, Head of Aeronautics Unit, European</i>


20h00

Conference Banquet offered by the City of Vienna in the town hall

Chairperson: Herbert Josef Allgeier, ex EC-JRC

- Very Light Jets - A New Dimension in Aeronautics
- Aerospace Societies for Europe - A Challenge for the next Generation

Christian Dries, CEO Diamond Aircraft Industries
Jean Michel Contant, CEAS Vice President for External Relations

09h35 - 10h55 Parallel Session 7						
The Greening of Air Transport	Improving Cost Efficiency	Ensuring Customer Satisfaction, Safety and Security	Improving Cost Efficiency	Improving Cost Efficiency	European Research Area	European Research Area
<p>Session A.7 Improving Aero-engine Efficiency Chairperson: Stephan Servaty, MTU</p> <ul style="list-style-type: none"> - Turbine Aero-Thermal External Flows (TATEF2) <i>Thomas Coton, SNECMA</i> - Instability Control of Low-Emission Aero Engine Combustors (ICLEAC) <i>Lorenzo Hernandez, Turbomeca</i> - Fluid Flow and Heat Transfer within the Rotating Internal Cooling Air System of Gas Turbines (ICAS-GT2) <i>Colin Young, Rolls-Royce</i> - ADVACT: Advanced Actuation in Gas Turbine Applications <i>Mike Hirst, Rolls-Royce</i> 	<p>Session B.7 Onboard Electronics and Avionics Chairperson: Pascale Olivaux, Thales Avionics</p> <ul style="list-style-type: none"> - Validation Platform for Integration of Standardised Components, Technologies and Tools in an Open, Modular and Improved Aircraft Electronic System (VICTORIA) <i>Joseph Huysseune, Thales Avionics</i> - High Stability Altimeter System for Air Data Computers (HASTAC) <i>André Larsen, Memscap AS</i> - ATENAA Advanced Technologies for Networking in Aeronautical Applications, a EC funded STREP Project (FP 6) <i>Massimiliano Amirfeiz, Selex Communications S.p.A.</i> 	<p>Session C.7 Security Chairperson: Michel Langer, Diehl</p> <ul style="list-style-type: none"> - Security of Aircraft in the Future European Environment (SAFEF) <i>Daniel Gaultier, SAGEM</i> - PALMA : Protection of airlines against MANPADS attacks <i>Gilles Fournier, EADS CCR</i> - Improving Airport Efficiency, Security and Passenger Flow by Enhanced Passenger Monitoring (OpTag) <i>Bob Lloyd, Innovation Research and Technology</i> - Security Research, 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 <i>Michael Langer, Diehl</i> 	<p>Session D.7 Manufacturing Processes Chairperson: André Bertin, SONACA</p> <ul style="list-style-type: none"> - Economic Advanced Shaping Processes for Integral Structures (ECOSHAPE) <i>Tobias Hornfeck, EADS-DE</i> - Optimisation of Spray-Forming of Advanced High-Quality components of Superalloys for Aeronautic Application <i>Oscar Caballero, ITP, S.A. Industria de Turbo Propulsores</i> - Development and Innovation for Advanced Manufacturing of Thermoplastics (Achievements of the FP6) <i>Patrice Lefebure, EADS CCR</i> - Magnesium Castings for Aircrafts <i>Shlomo Ramati, Israel Aircraft Industry</i> 	<p>Session E.7 Numerical Flow and Noise Simulation Chairperson: Michael Leschziner, Imperial College</p> <ul style="list-style-type: none"> - DESider – Hybrid RANS- LES methods <i>Werner Haase, EADS-DE</i> - Flow Physics Modelling - an Integrated Approach <i>Thomas Rung, TU Hamburg-Harburg</i> - The CoJeN Project- Development and validation of tools for predicting coaxial jet noise <i>Craig Mead, QinetiQ</i> - Towards significant reduction of aircraft engine noise: Results from the AROMA, MESSIAEN and TURNEX projects <i>Jean-Louis Migeot, Free Field Technologies</i> 	<p>Session F.7 National Aeronautics RTD Highlights Chairperson: Jürgen Wild, ex Director AGARD / RTO</p> <ul style="list-style-type: none"> - Aeronautics Related R&D Support and Activities in Sweden <i>Hans Christer Olson, Ministry of Industry</i> - The Aeronautical Sector in the Netherlands – a national approach in a European framework <i>H.J. L van Leeuwen, Netherlands Agency of Aerospace Programmes (NIVR)</i> - The Austrian contribution to the Europe Research Area in Aeronautics <i>Andreas Geisler, FFG</i> - Aeronautics related RTD support and activities in Spain <i>Juan Carlos Cortes, Center for Technological Industrial Development (CDT)</i> 	<p>Session G.7 F.P.7 - New opportunities for research Chairperson: Liam Breslin, EC-DG RTD</p> <ul style="list-style-type: none"> - Aeronautics research in FP7 <i>Dietrich Knörzer, European Commission (DG RTD)</i> - FP7 Rules for Participation <i>Eva Valle Lagares, European Commission (DG RTD)</i> - FP7- Support for Training and international Cooperation <i>Arnoldas Milukas, European Commission</i> - Support for Research Infrastructures of European Interest in FP7 <i>Panayotis Moschopoulos, EC - Research DG</i>
10h55 - 11h25 Coffee Break 						

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

- Eduard Mainoni, Austrian Federal Ministry for Transport, Innovation and Technology (BMVIT), Austria
- Zoran Stančić, Deputy Director General Research, European Commission (DG RTD)
- François Quentin, Co-Chairman of ACARE
- Krzysztof Jan Kurzydłowski, Undersecretary of State, Ministry of Education and Science, Poland
- Alain García, Executive Vice President Engineering, Airbus S.A.S.
- Ric Parker, Director of Research and Technology, Rolls-Royce, plc

**) invited*

13h00

Conference Sessions and Exhibition Closing

Afternoon Conference Excursions (*to be booked together with the conference registration; number of participants limited*)

- 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