With the spotlight in Hamburg very heavily on the twin-deck A380 development program, it’s hardly surprising that many of the exhibitor’s at Aerospace Testing Expo 2005 have chosen to use the occasion as a time to highlight testing systems and technologies that have been used, and developed, specifically for the A380 project.

With more than 250 exhibitors from at least 25 countries, an incredible array of the very latest testing systems and specialist test services for the aerospace industry will be presented over the four halls. On all three days of the event, the parallel ‘free-to-attend’ Technology Forums provide many incisive technical presentations from test suppliers and test partner organisations allied to the ongoing test program of the A380.

Advanced Analysis & Integration (AAI) will be displaying a number of test solutions for both civil and military aircraft manufacturers, including the A380. Steinbichler Optotechnik will be showing a range of optical measuring and sensor technology. Its IS5 system has been used to test composite parts of the A380.

The KAM-5000 digital acquisition system will be presented by Acira Control. The company has systems fielded in more than 30 countries on fixed-wing, helicopter, UAV and space platforms including the A380. TechSAT has chosen to use the occasion as a time to highlight the very latest techniques and technologies against the backdrop of current and new aircraft types.

A SHARC’s tale

Hamburg will again be the venue for the global flight testing industry to highlight the very latest techniques and technologies against the backdrop of current and new aircraft types.

A special feature on day two will be the Flight Testing Seminar, run in collaboration with the Society of Flight Test Engineers (SFTI) and the Society of Flight Test Pilots (SEFTI), which will include a full day program of technical presentations from some of the world’s foremost flight test centres.

Under the seminar spotlight will be SAAB Aerospace’s unmanned technology demonstrator, the SHARC, which has recently completed a third flight test campaign at the Vidsel/RFN test range in northern Sweden. The focus of the testing has been in verifying the newly-developed Autonomous Take Off and Landing functionalities. The autonomous landing functionality is basically invaluable, since it lowers the risks embedded in manual remote piloting during high-gain tasks. A number of specific functionalities have been designed into the avionics to allow safe and effective flight testing of the UAV demonstrator.

Contributions from Edwards Air Force Base (USA), EADS Military Aircraft (Germany), Scientific & Technical Research Council (Turkey), Embraer (Brazil), Boeing (USA), Northrop Grumman (USA) & TsAGI (Russia) offer a truly global sharing of information.

Some of the prime topics under the spotlight include: Flight testing the A-10 Thunderbolt II; high altitude testing; flight testing of Eurofighter in the asymmetric GBU-10 configuration; mixed store weapon separation testing on the F/A-18 E/F Super Hornet; flight path angle and airport aids signal analysis methods for Category III autoland performance check; shaped sonic boom demonstration using modified F-35E; general purpose munition captive carriage flight test; what flight test crews need to know about Electromagnetic Interference (EMI), and a new approach to short campaigns – Tetray and click on Technology Forums/Flight Testing Seminar.
With record levels of ‘pre-registration’, the organisers of the 2005 show are expecting more than 6,000 European-wide and international visitors to descend on the Messe Hamburg for the third Aerospace Testing Expo 2005 Europe.

With more than 250 exhibitors spanning four exhibition halls and showcasing the very latest products and services throughout the aerospace test, evaluation and inspection sector, the event is expected to be packed to the hilt for aerospace test engineering community.

Visitors to Aerospace Testing Expo 2005 Europe in Hamburg can additionally pick and choose from nearly 100 free to attend technical presentations and live demonstrations, taking place in purpose built auditoriums and demonstration zones integrated into the 2005 exhibition halls. There promises to be an unmissable array of cutting-edge technologies and solutions below are just a small selection of organisations taking part.

Reflecting the crucial importance of Non-Destructive Testing, the 2005 Expo will again provide a dedicated NDT Zone, showcasing more than 50 of the world’s leading NDT companies and organisations. On display will be the very latest technologies and solutions, including plus specialist NDT service providers for aerospace non-destructive testing, evaluation and inspection, supported with a program of ‘live’ NDT technologies and demonstrations.

NDT Consultants from the UK will be exhibiting more services than ever before and prove that NDT solutions can be achieved by using ‘tag and go’ technology as well as ‘intelligent’ inspection. For the customer, the organisation will combine the latest technology with an NDT service with a focus on supporting the customer in achieving their NDT requirements.

Hardy’s ultra-strong Storm Case, the show. The range covers electromagnetics (including EW, IDT, EMI and EME), a structural and dynamic test capabilities; computer modelling and synthetic environments, including environments, winds tunnels and other aspects of flight test instrumentation and flight testing.

Aerospace Test Technology will present its revolutionary computer modelling technology that allows accurate and easy-to-use test conditions for crew and passengers. The technology allows for modelling of working and relaxing postures. It evaluates the forces in the human body and the load on individual muscles and joints. The technology can perform ergonomic optimization of cockpit layouts, seating and other human/machine interfaces.

The Defence Aeronautics Programme (DAP) at the CSR in South Africa specialises in providing aerodynamic development, testing and design services to the South African Defence Force, South African industry and the International Aeronautical Industry. Part of these services, including leading edge flutter flight test software and hardware as well as wind tunnel test services. On display will be the latest software and hardware developments for DAP for flutter flight testing.

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On display will be the latest software and hardware developments for DAP for flutter flight testing.

On display will be a high resolution ultrasonic C-Scan over the very latest technologies and demonstrations, supported with a program of ‘live’ NDT technologies and demonstrations.

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Visitors to Aerospace Testing Expo 2005 Europe in Hamburg can additionally pick and choose from nearly 100 free to attend....
Non-destructive view

The Non Destructive Evaluation (NDE) Team from the Royal Air Force, will have a major presence at Aerospace Testing Expo

The Royal Air Force presentation at Aerospace Testing Expo 2005 will outline the provision of non-destructive testing (NDT) within the United Kingdom Armed Forces in support of the air environment.

The role and responsibilities of the NDT organisation will be described, along with an overview of the individual flights within the squadron. An introduction to the practical demonstrations being held on the squadron stand during Expo 2005 will provide an insight into some of the more recent innovative techniques and novel applications deployed within the UK military and highlight many of the difficulties faced while carrying out complicated and sensitive NDT tasks in high risk situations. The presentation will conclude with a look at the future and the likely NDT challenges associated with the next generation of military aircraft.

HARRIER PROGRAM

The Non-Destructive Evaluation (NDE) Team from the RAF will carry out live demonstrations throughout Aerospace Testing Expo 2005. All four presentations will be repeated daily to enable attendees to select the opportunity to view a demonstration.

TAP test demonstration 09:30-09:45 hrs
A demonstration of three types of tap testing technique including a manual tapping hammer, the Woodpecker Portable Bonnetor and the Computer Aided Tap Tester (CATT) system. The demonstration will be performed on a mixture of Merlin and Eurofighter CTRP Honeycomb Sandwich panels. The demonstration will include a description of the principles of tap testing and describe the basic operation of all equipment on a typical in-service inspection scenario.

Harrier aircraft live cockpit tour 10:45-11:45hrs
A five minute guided tour of the Harrier cockpit. However, it is worth noting that:
- The number of tours is strictly limited due to time constraints;
- Individuals must read and accept the terms of the health and safety brief which will be on display by the aircraft;
- The Harrier cockpit is in a confined space and the Royal Air Force and event organisers reserve the right to deny entry to any individual on the grounds of health and safety;
- The nominated Royal Air Force official on duty will have the final decision on admission and access to the cockpit display.

Laser sheanography 11:30-11:45hrs
The LTI SC4000 & VH4200 laser sheanography system will be demonstrated on a selection of composite samples. The demonstration will comprise a brief explanation of laser sheanography principles, spectra, shearing, fringe analysis and demonstration images will then be captured, analysed and stored.

Mobile Automated Scanner 12:30-12:45hrs
Mobile Automated Scanner (MAUS) will be set-up to scan a large area of monolithic CFC structure from a Eurofighter Fin Skin using pulse echo ultrasonics. The demonstration will illustrate the capture, archiving and retrieval of data along with typical defect sizing routines.

Harrier aircraft live cockpit tour 13:45-13:51hrs
More five minute guided tours of the Harrier cockpit. Conditions above apply.

Remote Viewing Aids (RVA) 15:30-15:45hrs
A demonstration of current in-service RVA to illustrate modern inspection, measurement and recording systems used within the MoD will be performed. The demonstration will include the Olympus IPLEX system using an RB 199 combustion chamber.

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resistors, capacitors, inductance or relays are measurements within the milliohm range, insulation-related industries. As in the past, continuity testing source up to 3A permit the meeting of test requirements. The remarkably higher test voltages of the new W 443 enables high-end test possibilities. The compact, ruggedized Instrumented Sensor Technology will be featured live on the test parts can be easily and precisely located due to predefined robot settings, thus providing a time-saving and effective measurement procedure. Additionally, CAD-data or digitized 3D-data of the parts can be matched with the shearography test results for exact defect localization. At Aerospace Testing Expo, Steinbichler will demonstrate its new system solution controlled by the proven ISIS software with live measurements during the show.

Atec is a company which covers everything needed to test engines off-wing. It designs, builds and installs complete engine test cells/hush houses for all engine types: V26/27 radial military applications, high-bypass turbofans, turboshafts and turboprops. Atec specializes in test cell modifications/upgrades as well as the support equipment required for testing: thrust stands, engine adapters, bellmouths, data acquisition/engine control systems, engine assembly platforms, and acoustic enclosures.

Atec is your low-cost, innovative solution for all your test cell challenges. Atec is one of the world’s leaders in avionics communication board and system level products. Our MIL-STD-1553 and Arinc-429 products are used in the development, integration and testing of an extensive range of aeronautical devices. The company will present its cutting-edge testers, simulators, data recorders and flyable products. Its latest products include the MACE, a rugged computer designed for airborne and military field applications.

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Scanivalve is a leader in wind tunnel, gas turbine, and jet engine testing. Our focus on advanced measurement technology can be seen live on the company’s stand. This includes the model R402/0011 which has been designed as a wind tunnel model, and communicates with an external computer via USB. The model can be set up to 500 measurements/channel/second can be achieved. Also being exhibited is the line of DSA200 series pressure modules. These 16-channel pressure scanners communicate via Ethernet 10BaseT. Full scale pressure ranges are 10 bar water column up to 1000 psi. ATEX certification.

Vision Engineering manufactures a range of optical, quality inspection and two and three axis non-contact measurement systems. Aerospace component measurement and inspection can be performed on a range of materials, from highly reflective curved or flat surfaces present on reflections and glints. Vision Engineering systems are designed to inspect and measure a part with a clear, sharp image without glare. This means the operator will be able to see edges and features clearly and accurately. The system is designed to improve the operator efficiency and accuracy.

The company also offers a line of structural vibration, durability and system reliability products that are fully tested and calibrated for the aerospace industry. These products are used for testing airframes, engines, and other high-performance components. The company’s products include: vibration, durability, and system reliability products for the aerospace industry.

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Helitest provides equipment to the largest aircraft operators in the world, manufacturers and military operators alike. Viscom will present the compact, inline-capable X801 X-ray inspection system. The system allows large assemblies to be tested. Numerous features such as axis manipulation, new VMC user interface for even greater customer convenience and comprehensive analysis software also ensure maximum performance and ease-of-use.

Lavielson’s pioneering activities in the early stages of commercialising ‘particle image velocimetry’ (PIV), which enabled aerodynamics research to obtain instantaneous velocity maps, were the basis for a series of imaging techniques of non-destructive and non-intrusive testing. Continuous developments introduced advanced correlation methods to measure deformation processes in two and three dimensions. Stress and strain are measured optically with high accuracy and without the need to modify a model or sample under testing. Smallest changes in a surface are detectable even when they are invisible to the human eye.

With an aerospace technical heritage and radical civil, military and space flight developments, the Russian company offers the opportunity to become global players in niche areas of expertise across the full range of software, hardware, systems integration and solutions provision.

President Putin made it absolutely clear that his vision encompassed the emergence over the next decade of the Russian aerospace industry as the third pillar of world leading aerospace industrial giants, the other two being Boeing and Airbus.

This year Aerospace Testing Expo will welcome a significant growth of Russian participation in the event, both in terms of companies exhibiting and trade visitors from all sectors of the aviation and aerospace community.

Boil hulls and structures, and others, e.g. rail and air transport. Ultrasonic Sciences Ltd will highlight some recent large installations for automated ultrasonic inspection of composite and metal aerospace components. This will include a 17-axis contour following ultrasonic machine for BAE SYSTEMS in UK. This is designed for inspection of complex fuselage parts for the joint Strike Fighter project. It includes new software for generation of scanning paths from CATIA data.

Endevo is the supplier of the world famous sensor to measure dynamic and static values of acceleration, vibration, shock and pressure. Available at the show will be calibration equipment and charge and AC/DC amplifiers.

The Australian Pavilion has been a significant success for the Australian-based company,侦测公司。 It has been a key geographic territory in the global context of aerospace, and management and maintenance businesses associated with the development of high-technology systems and projects.

With the introduction of an exceptionally high level of technical competence across the full spectrum of remote vision and inspection technologies, and works closely with clients to further enhance expertise and solutions as evidence for example of joint cooperation agreements with Qantas and other operators.

Structural Monitoring Systems has developed an innovative system and unique application for determination of the health and integrity of structures through their comparative vacuum monitoring, which essentially recognizes discrepancies of NDITNDI and condition monitoring.
Testing solutions for the A380 are a prime focus.

**OPEN TECHNOLOGY FORUM 5, 6, 7 April**

All presentations are “free to attend” for show visitors. A special feature of Aerospace Testing Expo 2005 Europe will again be the ‘Open Technology Forum’ where all visitors can come and see the very latest technologies and developments from the world’s leading experts within aerospace testing and evaluation.

This popular special feature of the Expo will provide three days of outstanding technical presentations on the very latest in aerospace testing and evaluation. The speaker base will include senior division, Belgium

**TECHNOLOGY FORUMS AND SEMINAR**

**TUESDAY 5 APRIL**

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<th>Session</th>
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<tr>
<td>09.20 – 09.40</td>
<td>EWA – European Windtunnel Association – one year on at Aircraft Research Association Ltd, UK</td>
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<tr>
<td>09.40 – 10.00</td>
<td>An introduction to the global icing certification facility MDS Aero Support Corporation, Canada</td>
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<tr>
<td>10.00 – 10.20</td>
<td>The model positioning mechanism of DNW-NWB based on a new parallel kinematic DNW-NWB, Germany</td>
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<tr>
<td>10.20 – 10.40</td>
<td>Propeller aircraft wind tunnel testing EADS CASA, Spain, RUAG Aerospace, Switzerland</td>
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<tr>
<td>10.40 – 11.00</td>
<td>Advanced measurement techniques at high Reynolds number testing in the European Transonic Windtunnel (ETW) European Transonic Windtunnel GmbH, Germany</td>
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<tr>
<td>11.00 – 11.20</td>
<td>Take care, wing blast appears! DGA/CEAT, France</td>
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<tr>
<td>11.20 – 11.40</td>
<td>BREAK</td>
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<tr>
<td>11.40 – 12.00</td>
<td>Efficient fatigue testing of very large aircraft structures – An innovative test setup for the A380/EF full-scale fatigue test IABG, Germany</td>
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<tr>
<td>12.00 – 12.20</td>
<td>Transportation and infrastructure for the Airbus A380 full-scale fatigue test IMA GmbH Dresden, Germany</td>
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<td>12.20 – 12.40</td>
<td>Advanced control and safety unloading techniques in use on the HAWK LiF SFSFT Defence Science and Technology Organisations (DSTO) - Australia, MTS Systems Corporation, USA</td>
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<tr>
<td>12.40 – 13.00</td>
<td>Thermal fatigue testing under varying environmental conditions EADS ST, Germany</td>
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<td>13.00 – 13.40</td>
<td>LUNCH</td>
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<tr>
<td>13.40 – 14.00</td>
<td>Next generation data acquisition and control systems for gas turbine engine testing: The challenges ahead Cenclo international a Techspace Aero division, Belgium</td>
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**WEDNESDAY 6 APRIL**

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>09.20 – 09.40</td>
<td>High-speed wind tunnel testing 3D non-contact position and deformation measurement of a delta wing model at transonic mach numbers GOM mbH, Germany</td>
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<tr>
<td>09.40 – 10.00</td>
<td>ONERA ground testing support of the Airbus A380 Super-Jumbo project ONERA, France</td>
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<tr>
<td>10.00 – 10.20</td>
<td>High strain rate testing within the aerospace industry test bench, UK</td>
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<td>10.20 – 10.40</td>
<td>Test as an integral part of the design flow National Instruments Germany GmbH, Germany</td>
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<tr>
<td>10.40 – 11.00</td>
<td>Synchronisation of measurement data acquired with DAS systems from different manufacturers HBIM, Germany</td>
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11.00 – 11.20 | Design validation and verification by ground test systems developed with experience in flight testing European Aeronautics Defence and Space Company DS/MA, Germany |

11.20 – 11.40 | BREAK |

11.40 – 12.00 | Next generation Lan-based modular platform standard for automated test systems VXi Technology, USA |

12.00 – 12.20 | New verification technologies for aircraft systems Airbus Deutschland GmbH, Germany |

12.20 – 12.40 | The fundamentals of testing mode A/C/S transponders, TCAS I and II and DME Aeroflex, USA |

12.40 – 13.00 | Integration test benches with real-time capability for testing avionics of new aircraft programs: A380 and A400M EADS Test & Services, France |

13.00 – 13.40 | LUNCH |

13.40 – 14.00 | The International Aerospace Quality Group Airbus Deutschland GmbH, Germany |

14.00 – 14.20 | Automated component test platform for aerospace applications S.E.A. Datentechnik GmbH, Germany |

14.20 – 14.40 | On-line cure monitoring of composite parts without direct contact in a real production environment Thermoflux Technologies SA, Switzerland |

14.40 – 15.00 | Best practices in the use of ‘smart’ displacement, gap and hole sensors for aircraft and aircraft engine test and overhaul Capacitec, France, USA |

15.00 – 15.20 | BREAK |

15.20 – 15.40 | Ground bond testing for production and maintenance Selec GmbH, Germany |

15.40 – 16.00 | A380 and A400M EADS Test & Services, France |

**FORUM DAYS**

- Open Technology Forum: 5, 6, 7 April
- AeroNDT Forum: 5 & 7 April
- Flight Testing Seminar: 6 April

Visit our website for full program details including over 100 abstracts!
AeroNDT FORUM
5 & 7 April
In parallel with the broad range of NDT exhibits on display will be a high level dedicated program of NDT technical presentations. From civil and military NDT operational, end user and systems development senior experts, in the purpose built auditorium integrated into the AeroNDT Zone.
Attending NDT specialists will again benefit from a program of specialist presentations from the world’s leading NDT experts, principle European and International NDT bodies and key aerospace end-user organisations, addressing the crucial issues underlying NDT for R&D through to maintenance application in civil, military and space applications.
Additionally, there will be presentations from some of the leading international suppliers of NDT, presenting background, benefits and applications of some of the very latest NDT technology on offer. All presentations are ‘free to attend’ for show visitors and are located in the purpose built auditorium, equipped with the latest audio visual systems, integrated into the AeroNDT exhibits zone.

TUESDAY 5 APRIL
10.00 – 10.20 Keynote presentation Non Destructive Evaluation (NDE) Team, RAI, UK
10.20 – 10.40 Non-destructive testing in the aerospace industry GE Inspection Technologies, Germany
10.40 – 11.00 Fatigue testing of helicopter components: Thermoelastic stress analysis data recovery in non-adiabatic conditions Agusta, Politecnico di Milano, Italy
11.00 – 11.20 BREAK
11.20 – 11.40 NDT measurement and software solutions as employed by Airbus dow GmbH, Germany
11.40 – 12.00 Automatic evaluation and characterisation of NDT inspections in aircraft structures Tecnatom, S.A., Airbus-Spain, Spain
12.00 – 12.20 Lockin thermography, a tool for online NDE control in aircraft industry - benefits of new technologies CEDIP infrared Systems, France
12.20 – 13.00 LUNCH
13.00 – 13.20 The advantages of amorphous silicon digital radiography flat panel technology over traditional film in NDT applications Vidico Ltd, Israel
13.20 – 13.40 Permanent mounted transducer system – the new standard in the bolted joint technology PFW Technologies GmbH, Germany
13.40 – 14.00 Optical terahertz technologies for non-destructive process and quality control Fraunhofer Institut für Physikalische Measurement/Instruments Physik, Technische Universität-Kaiserslautern, Germany
14.00 – 14.20 Optimised non-destructive inspection with the help of optical measurement technologies Steinbichler Optotechnik GmbH, Germany

14.20 – 14.40 BREAK
14.40 – 15.00 New safety standard for the fully automated inspection of aircraft wheels using eddy currents ROHMANN GmbH, Germany
15.00 – 15.20 Aerospace applications of NITON portable XRF analysers Niton Europe GmbH, Germany
15.20 – 15.40 Experience of full 3D ultrasonic inspection with linear robotics Patra Aerotechniques Oy, Finland, NUTRONIK GmbH, Germany
15.40 – 16.00 Recent developments of Speckle Interferometry technologies for industrial applications Dantec Ettemeyer GmbH, Germany
16.00 – 16.20 Research and development of modern inspection technologies for traffic engineering Federal Institute for Materials Research and Testing (BAM), Germany

16.20 – 16.40 Proactive obsolescence management is critical to your business QinetiQ Managed Services, UK

THURSDAY 7 APRIL
09.40 – 10.00 Advanced measurement techniques using videoscope technology Olympus, UK
10.00 – 10.20 Comparison of selected NDT techniques for impact defects identification in composite sandwich structures VLU, Czech Republic
10.20 – 10.40 Advanced UT probes and techniques for time and cost-effective CFRP inspections InteligNTD Systems & Services, Germany
10.40 – 11.00 Leak testing with hydrogen on aircraft fuel systems Sensosit Technologies, Sweden
11.00 – 11.20 BREAK
11.20 – 11.40 GapGun 3 – the smartest way to check product build geometry Third Dimension Software Limited, UK
11.40 – 12.00 Aerospace non-destructive testing in South Africa Defence Technology – CSIR, South Africa

Continued overleaf >

A318 is the latest member of the A320 family
16.00 – 16.20 Use of UAV technology to achieve rapid prototyping Cranfield Aerospace Limited, UK
16.20 – 16.40 New architecture alternatives for switching in cost sensitive and legacy applications Pikking Interfaces, USA
16.40 – 17.00 Full field displacement and strain measurement on vibrating and rotating objects i-sys, Germany

THURSDAY 7 APRIL
09.20 – 09.40 Aerospace testing at the Woowsera Range Aerospace Operational Support Group, Australia
09.40 – 10.00 AERMACCHI M346 – integrated approach for first prototype testing AERMACCHI, Italy
10.00 – 10.20 Flight test management at a glance CAM GmbH, Germany
10.20 – 10.40 Flight testing at the Netherlands National Aerospace Laboratory NLR National Aerospace Laboratory NLR, the Netherlands
10.40 – 11.00 TsAgI: A comprehensive range of ground test facilities and instrumentation for aerospace testing TsAgI, Russia
11.00 – 11.20 IADS – the interactive analysis and display system Symmonics Inc, USA
11.20 – 11.40 BREAK
11.40 – 12.00 Testing of the Phoenix reusable launch vehicle at NEAT NEAT, Sweden
12.00 – 12.20 Scalable test systems: From flight tests to laboratory testing BETA ARI/AIAV, OK, Russia
12.20 – 12.40 Onboard network system for advanced military aircraft L-3 Communications Telemetry-East, Germany
12.40 – 13.00 UAV and target drone development and testing at INTA INTA, Spain
13.00 – 13.40 LUNCH

SESSION ONE
13.40 – 14.00 Aircraft test bench architecture evolution: An example with the A400M case EADS Military Aircraft, Germany, Creative Electronic Systems, Switzerland
14.00 – 14.20 Excitation devices in Modal Analysis: Why are they so important? Protera, France
14.20 – 14.40 Ergonomic optimisation with the AnyBody modelling system AnyBody Technology A/S, Denmark
14.40 – 15.00 Applying the simulation-centric process to UAV development and test Applied Dynamics, USA
15.00 – 15.20 BREAK
15.20 – 15.40 Methods for determination of dynamic derivatives and for simulation of manoeuvring aircraft DLR, German Aerospace Center, Inst. Of Aerodynamics and Flow Technology, Germany
15.40 – 16.00 3D-scanning laser doppler vibrometry, an indispensable method for vibration measurement and experimental modal analysis Polytec GmbH, Germany
16.00 – 16.20 Enhancing microwave characterisation using a unique free space focused beam system BAE SYSTEMS, UK
16.20 – 16.40 Full load test systems for aircraft gearboxes and dynamic systems of helicopters ZF Luftfahrteotechnik GmbH, Germany

SESSION TWO
12.40 – 13.00 Large acoustic chambers for satellites (1000m² – 156dB) SEREME, France
13.00 – 13.20 Practical application of a vibration check system for ground testing of helicopters Bruel & Kjaer, Denmark
13.20 – 13.40 Stringent new requirements on intrinsic safety are soon coming into force BCF Designs Ltd, UK
13.40 – 14.00 Airbus A380 central maintenance system – the AFDS protocol simulation TecH.T, A.T GmbH, Germany
14.00 – 14.20 Use of imagery technology for dimensional control of engine parts Rolls-Royce Canada, SPG Hydro International, Canada
14.20 – 14.40 BREAK
14.40 – 15.00 Wasteline-cleaning and videoscope surveillance Airplane Equipment & Services GmbH, Germany
15.00 – 15.20 Media supply module for the Airbus A380 – fully automatic testing using distributed test systems Test-Fuchs, Austria
15.20 – 15.40 Network-centric aircraft data acquisition Syrion Data Systems, USA
15.40 – 16.00 New thermal mapping device dedicated to high temperatures LSIAG, France
16.00 – 16.20 The increasing use of complex software in safety critical applications Wind RiverGmbH, Germany

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WEATHER IN MARCH–APRIL

AVerAGE TEMPERATURE 42°F/5.5°C

WEATHER

CONTACT DETAILS
AEROSPACE TESTING EXPO 2005
UKIP Media & Events, Abinger House, Church Street, Dorking, Surrey RH4 1DF, UK
Tel: +44 (0)1306 743744
Fax: +44 (0)1306 877411
Email: y.casey@ukintpress.com
Register on-line at: www.aerospacetesting-expo.com

THE VENUE
Hamburg International Exhibition and Conference Centre. St. Petersburger Strasse 1, Hamburg, Germany.
www.hamburg-messe.de

VISA REQUIREMENTS
Visa requirements
The following countries DO NOT require a visa for entry into Germany:
American Samoa, Andorra, Argentina, Australia, Armenia, Bangladesh, Brazil, Brunei Darussalam, Bulgaria, Canada, Chile, Christmas Island, Cocos Island, Colombia, Cook Islands, Costa Rica, Croatia, Cyprus, Czech Republic, Ecuador, El Salvador, Estonia, Guam, Guatemala, Hungary, Hong Kong, Israel, Japan, Korea (Rep. of), Latvia, Lithuania, Macao, Malta, Mexico, Monaco, Micronesia, New Zealand, Niue, Norway, Northern Ireland, Panama, Paraguay, Poland, Portugal, Saint Martin, Singapore, Slovak Republic, Slovenia, United States of America, Uruguay, Vatican City, Venezuela, Virgin Islands U.S.

Any citizen of the EU/EEA/EFTA

FREE TO ATTEND OPEN FORUMS
OPEN TECHNOLOGY FORUM (running days 1, 2 & 3)
Venue for presentations: Hall 2 (lower level) (Forum No.1)
NOTE: Thursday 7th April (parallel session 2)
Forum No. 2
AerodIT FORUM (running days 1 & 3 only)
Venue for presentations: Hall 2 (lower level) (Forum No.2)

FLIGHT TESTING SEMINAR (running day 2 only)
Venue for presentations: Hall 2 (lower level) (Forum No. 2)
Visit our website for full program details including over 100 abstracts! www.aerospacetesting-expo.com

FLIGHT TESTING SEMINAR 6 April
Organised in collaboration with the Society of Flight Test Engineers (SFTE) & the Society of Experimental Test Pilots (SETP), the Seminar provides a unique ‘free to attend’ program of technical presentations from the world’s leading flight test centres and flight test systems providers. Presentations will cover program overviews, advanced technologies and instrumentation, innovative data techniques and processes or enhanced test procedures – A must attend for flight test professionals everywhere.

WEDNESDAY 6 APRIL
09.00 – 09.10 Introduction by SFTE
09.10 – 09.30 Keynote Speaker –
09.00 – 09.10 Introduction by SFTE
USAF Test Pilot School

09.30 – 09.35 Moderate – Roy Martin
Northrop Grumman Air Combat Systems, USA

11.10 – 11.35 Flight testing the autonomous take off and landing functions of the SHARC Technology Demonstrator
Saab Aerosystems, Sweden

11.35 – 12.00 General purpose munition captive carriage flight test
The Scientific & Technical Research Council of Turkey, Turkey
12.00 – 13.00 Lunch
13.00 – 13.05 Moderator - Lars-Åke Holm
Saab Aerosystems, Sweden
13.05 – 13.30 Flight testing of Wright Brothers’ Glider and early powered aircraft replica

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Test and Evaluation, Wright Patterson AFB, USA
13.30 – 13.55 Flight path angle and airport aids signal analysis method for Category III Autoland Performance Check
Embraer, Brazil
13.55 – 14.20 What flight test crews need to know about electromagnetic interference (EMI)
Boeing Commercial Airplane Company, USA
14.20 – 14.50 Break
14.50 – 15.15 A new approach to short campaigns – Telemetry data link by use of ISDN telephone line
EADS Military Aircraft, Germany
15.15 – 15.40 Test and evaluation of the MV-22B Osprey in instrument meteorological conditions
NAVAIR V22 Integrated Test Team, USA
15.40 – Shaped sonic boom demonstration using modified F-SE
Northrop Grumman Air Combat Systems, USA
16.05 – 16.10 Summing up from SFTE

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