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AIRTEC
11th INTERNATIONAL AEROSPACE
SUPPLY FAIR

Participate in the
11th AIRTEC International Congress

Call for Abstracts



October 25 – 27, 2016
Munich, Germany

Image of Airplane by AIRBUS

B2B Meetings

Exhibition

Congress

Connecting industry and science

The International AIRTEC Congress, as a major part of AIRTEC, is unique and different from other conferences. Over 200 presentations are highly industry-oriented and contain many top-keynote speakers from industry and research. The congress is directly embedded in the AIRTEC trade exhibition with 600 exhibitors and 15,000 B2B meetings.

The trade exhibition focuses on new technologies, innovations and trends, provides a comprehensive overview about the aerospace industry, and allows a direct communication between science and industry.

Welcome to Munich

AIRTEC is the world's most specialized trade fair for the entire international aerospace supply chain from engineering to production, components and systems and life cycle support. With its focus on the whole aerospace supply chain, AIRTEC facilitates an important international business platform for the dialogue among first, second and third tier suppliers and to OEMs. AIRTEC also provides a platform for participants to gain and extend their knowledge of the latest trends and developments in the aerospace industry.

Along with AIRTEC, the congress brings together participants from industry, government institutions and academia. The lecture program will combine invited keynote presentations from high-level speakers with contributed papers to provide a forum for an easy exchange of information and interaction among the participants.

Under this year's motto "Aerospace – The driver for the industry", the congress is seeking to attract professionals in the fields of aeronautics, helicopters, space, UAVs, testing, avionics and sensors. The topics addressed in the congress will cover all aspects of current and future aerospace products. Experts from all areas related to aerospace are welcome to contribute to the congress program with their latest developments, new products, projects and experiences. Major topics will be introduced by keynote lectures, followed by shorter contributed papers, connecting industry and science.

Publication in peer-reviewed journal

The papers of interested authors will be published in a peer-reviewed special issue of the Journal Aircraft Engineering and Aerospace Technology.

Deadline:
November 30, 2016

Instructions:
www.airtec.aero/journal



Key dates

March 31, 2016
Abstract submission deadline

April 30, 2016
Notification of acceptance

September 30, 2016
Submission of a full technical paper and/or publication of your presentation is optional. For these to be published in the proceedings CD, the submission deadline is September 30.

Abstract Submission

All abstracts have to be submitted at:

www.airtec.aero/abstracts

The following information will be required during the on-line submission process of your abstract: a summary that states the objective of the paper tentative title name and organization of the author and co-authors and all contact information selection of the most appropriate symposium

All abstracts will be reviewed by the related Scientific & Technical Advisory Board.

Shortly after the notification of acceptance you are required to register to the event at

www.airtec.aero/congress

Otherwise the acceptance will be withdrawn. Reduced speakers' fees as listed on the back of this flyer apply. By submitting you agree to the publication of all submitted material.

- Additive Manufacturing
- Automation
- Electrical Flying

This symposium covers all important and strategic aerospace issues. The programme combines invited keynote presentations from renowned leading experts with contributed papers, panel discussions, tutorials and three industry summits, one on procurement/supply chain management and two on R&D.

Chairman

Prof. Dr. Richard Degenhardt, DLR (German Aerospace Center), Braunschweig, Germany and PFH Göttingen

Vice Chairman

Dr. Leslie Jay Cohen, Senior Vice President - NBD & Strategic Technology, Hitco, USA

Aerostructures

- Metallic Structures
- Composite Structures

Materials & Parts

- Aluminium, Titanium
- Special Alloys
- Composite & Consumables

Equipment & Facilities

- Machine Tools
- Digs
- Fixture
- Assembly
- Cutting

Systems

- Landing Gear
- Wheels & Brakes
- Fuel Systems
- Air Systems
- Hydraulic Systems
- Mechanical Systems
- Electrical Systems

Cabin

- Cabin Systems
- Electrical Systems
- Interiors
- Entertainment

Services

- Engineering
- Manufacturing & Automation
- Simulation & Training
- Maintenance, Repair & Overhaul
- Supply Chain Management

Propulsion

- Engines
- Nacelle
- Fuel Cells
- Alternative Fuels
- New Engine Concepts

SPECIAL SESSIONS

- Global Supply Chain Summit
- R&D Summit Future of Aviation
- R&D Summit Composites
- Additive Manufacturing in Aerospace
- Electrical Flying

Committee Members Aeronautics

Dr. Igor Bashkirov, TsAGI, Russia

Dr. Mircea Calomfirescu, Airbus Defence and Space, Manching, Germany
Ilke Dikici, Technical Consultant in Aerospace

Prof. Dr. Laurent Dala, R&D Manager and President of the Aeronautical Society, CSIR DPSS Aeronautics Systems, South Africa

Dr. Lars Fiedler, Senior Manager, R&T Fuselage Structure, Airbus SAS, Germany

Prof. Dr. Giacomo Frulla, Turin Polytechnic University, Italy

Prof. Dr. Harald Funke, Aachen University of Applied Sciences, Germany

Gila Ghilai, Director of Airframe Design & Analysis, Israel Aerospace Industry, Israel

Prof. Dr. Alfredo Güemes, Polytechnic University of Madrid, Spain

Dr. Tomas Ireman, Senior Manager, Head of Loads, Stress and Dynamics, SAAB, Sweden

Dr. Josef Kallo, Head of Group Fuel Cell and Battery Systems, DLR Stuttgart, Germany

Dr. Gregorio Kawiecki, Boeing, Spain

Dr. Douglas McCarville, Boeing, USA

Francois Kubica, A380 Chief Engineer, Airbus SAS, France

Dr. Matthias Meyer, BA Composites GmbH, Germany

Prof. Dr. Janusz Narkiewicz, Warsaw University of Technology, Poland

Reinold Pfau, Premium Aero-tec, Germany

Prof. Murray L. Scott, Managing Director, Advanced Composite Structures Australia, Melbourne, Australia

Prof. Dr. Romana Ewa Sliwa, Rzeszow University of Technology, Poland

Prof. Dr. Bernd Steckemetz, University of Applied Sciences Bremen, Germany

Dr. Jens Telgkamp, Head of Fuselage and Generic Structure Design - ESDSR, Airbus SAS, Germany

Chairman TESTING

Stephen GR Brown, Director,
College of Engineering,
Swansea University, United
Kingdom

Vice Chairman TESTING

Dr. Ute Hörmann, Account
Manager Consumer Testing
Services, SGS Institute
Fresenius GmbH, Germany

Electronics

- Quality Assurance Testing on COTS Products
- Analysis of Ageing Effects on Cables, Connectors and Electrical Components
- Destructive Physical Analysis (DPA)
- Prohibited Material Analysis (PMA)

Materials

- Characterising Corrosion: The Interaction of Components with the Environment
- Additive Manufacturing: Determination of the Manufacturing-Structure-Property Relationship
- Testing Prospective Approaches for Repairing Composite Parts and Metallic Parts

Propulsion

- Threats to aviation jet fuel quality: Quality Assurance Tests of Fuels and Alternative Fuels
- Electrical Flying: Battery and Fuel Cell Safety Testing
- Testing Engine Systems and Subsystems

Helicopter Testing and Safety

- Safety in Helicopter Flight Operation
- BARS Certification
- NDT Techniques in AOG Services

UAV

- Risk Assessment compliant to the ICAO SMM, OHSAS 18000, ISO 31000 and other regulations and standards
- Operational Audits
- Safety and Risk Management in Safety Critical Environments

SPECIAL SESSIONS

- Additive Manufacturing: Determination of the Manufacturing-Structure-Property Relationship
- Quality Assurance Testing on COTS Products
- Safety and Risk Management of Operations in Safety Critical Environments

Committee Members

Dr. Orlando da Costa, Technical Manager UAS, IABG, Germany

Prof. Dr. Hans-Jörg Fecht, Director Institute of Micro and Nanomaterials, Ulm University, Germany

Professor Bernd Mayer, Managing Director, Fraunhofer IFAM, Germany

Dr. Carmine Salzano, International Aerospace Defense Manager, PCB Aerospace and Defense, USA

HELI

FOCUSSED AREAS 2016

- Future & Enabling Technologies
- Hybrid Configurations
- Green Platforms
- Civil & Military Helicopter Operation
- Flight Simulation, Flight Safety & Pilot Training
- Maintenance & Repair
- SAR, HEMS
- Ground & Flight Test Technology
- Situation Awareness
- Helicopter Mission

Chairman

Dr. Mark D. White,
Flight Simulation Manager,
The University of Liverpool,
United Kingdom

Committee Members

Prof. Dr. Salvatore Amoroso,
Energy Department Section
Engineering and Transport,
University of Palermo, Italy

Karl Bernetich, Composites
M&P, Boeing Research &
Technology, Rotorcraft, USA

**Superintendent M.A. D.-H.
Bothe,** Air Transport Helicopter
Pilot, Federal Police, Germany

Konstantin Kampa,
Head of Technical Expertise &
Manager General Engi-
neering, Airbus Helicopters,
Germany

Dr. Klausdieter Pahlke,
German Aerospace Centre
DLR, Germany

Martin Stucki,
CEO, Marenco Holding AG,
Switzerland

Dr. Jim Sutter, Technical
Director Composite Projects,
South Carolina Research
Authority (SCRA), USA

Prof. Dr. Michael Weigand,
TU Wien, Institute for Engi-
neering Design and Logistics
Engineering, Machine Design
and Rehabilitation Engineer-
ing, Vienna, Austria

OPERATION

FOCUSSED AREAS 2016

- Economical Operation of Aircraft Fleets
- Challenges of the OEMs to develop new technology
- Repairs of new materials like composites, ceramics
- Shop floor Education to provide the necessary skills

Aerospace Operation symposium covers all aspects of applications for commercial and military aircraft, helicopters, UAS, missiles and satellite applications.

Operation

- Mission Training Simulation
- Maintenance, Repair & Overhaul (MRO)
- Airport & Airline Management
- Security
- Autonomous contingency management

Chairman OPERATION

Klaus Mueller,
Senior Advisor Aerospace and
MRO, ICF International, UK

Vice Chairman

Hans-Jürgen Ehlers,
Engineering Manager,
Deutsche Lufthansa
Berlin-Stiftung (DLBS),
Germany

FOCUSSED AREAS 2016

- Civil UAV Missions
- Hybrid Configurations
- Air Space Integration

UAV provides an international meeting place for the UAS community, covering both, the civil and the military market to exchange the latest information on UAS technologies and missions. Well respected experts from the industry, academia and governmental institutions come here together to meet and discuss.

Technologies & Platforms

- Fixed Wing
- Rotary Wing
- Hybrid Configurations
- Air Ship
- Rockets
- Orbiting Platforms
- Bionic (Smart Bird, Smart Bee)

Missions

- Civil UAV Missions (rescue, agriculture, security, geo, film, transport)
- Military UAV Missions
- Safety for Operations to Avoid Collision

Ground Control

- Air Space Integration
- Situation Awareness
- Automation & Planning

Ethical Aspects & Public Acceptance

- Attack of Drones
- Emergency Missions
- Protection of Privacy

Certification, Verification, Validation & Harmonization

- EASA Standards
- FAA Standards
- DIN Standards
- ISO Standards

Committee Members

Prof. Dr. Alin Olimpiu Albu-Schäffer, Director DLR-German Aerospace Centre for Robotics and Mechatronics, Wessling, Germany
Christopher C. Ames, Rear Admiral, US Navy (Ret.), Director, International Strategic Development, General Atomics, Aeronautical Systems, USA
Prof. Dr. David Bird, Emeritus Professor of Wildlife Biology and Editor of Journal of Unmanned Vehicle Systems Department of Natural Resource Sciences, McGill University, Canada
Prof. Dr. Florian Holzzapfel, Institute of Flight System Dynamics, Technical University of Munich Germany
Prof. Dr. Horst Schmidt-Bischoffshausen, Consulting, Germany
Thomas Gottmann, Senior Manager Barracuda / Agile UAV NCE, Airbus Defence and Space, Germany
Dr. René Knorr, Director UAS Programms, ESG Elektroniksystem- und Logistik GmbH, Germany
Dr. Konstantin Kondak, Head of Flying Robots Group, DLR-German Aerospace Center for Robotics and Mechatronics, Wessling Germany
James A. Moseman, Director Europe and NATO, Northrop Grumman International, Belgium
Francisco A. Navarro, Chief ATM Scientist UAS Management, Boeing Research & Technology Europe
Prof. Dr. Axel Schulte, Aircraft Dynamics and Flight Guidance of the Universität der Bundeswehr, Munich, Germany
Florian Seibel, CEO Quantum Systems GmbH, Germany
Dr. Norbert Tränapp, IABG Industrieanlagen-Betriebsgesellschaft mbH, Germany

SPECIAL SESSIONS

- BavAIRia Session
- Maintenance and Monitoring
- Transport & Logistics within Industry Complexes
- Transport & Logistics to difficult accessible areas (Isles, Mountains, Desert, etc)

Chairman

Brigadier a.D. Gerhard Schulz, bavAIRia Aerospace Cluster, Germany

Vice Chairman

Prof. Dr. Dieter Moormann, Institute of Flight System Dynamics, RWTH Aachen University, Germany

- Sensor Calibration
- Low-Cost Navigation Systems
- 3D Reconstruction

Avionics symposium covers all electronic systems used on-board of aircraft, artificial satellites or spacecraft and especially includes sensors, navigation and communications systems, cockpit instruments, ISR payload or any other mission specific electronics.

Chairman NAVIGATION

Dr. Johann Dambeck,
Strategic Concepts MBDA,
Lecturer TUM, Germany

Chairman PAYLOAD & GUIDANCE

Marc Gatti, Director R&T,
Thales Avionics, France

Navigation

- Inertial Sensors & IMUs & Inertial Navigation Systems
- Oscillators, Clocks & Synchronization
- Communication Standards & Protocols
- Radio Navigation Plan & Data Radios
- Radio Navigation Systems
- Global Navigation Satellite Systems (GNSS)
- GNSS Receivers - Positioning and Timing
- Antenna Systems & Control Electronics
- Air Data Systems
- Compass & Magnetometer
- Horizon-Sun-Moon-Star Tracker
- Positioning & Pose Estimation
- Space Weather, Atmospheric, Surface and Artificial Disturbances
- Ranging, Imaging, Range-Imaging & Scanning
- Single, Stereo and Omnidirectional Cameras
- Visual Odometry - EgoMotion from Optical Flow
- Digital Surface Models (DSM) and 3D Maps
- Surface Aided Navigation (SAN)
- Aperture and Focal Depth Maps
- Relative Depth Map from Optical Flow
- Structure from Motion (SfM)
- Dead Reckoning & Navigation
- Sequential Localization And Mapping (SLAM)
- Attitude/Heading Reference Systems (AHRS)
- Data Fusion – Filtering and Smoothing
- Integrated Navigation Architectures & Systems

- Reliability, Redundancy & Robustness
- Availability, Continuity, Accuracy & Integrity
- Standardization & Interoperability
- Laboratory Sensor Characterization & Calibration
- Full Motion Simulation & Flight Testing
- Verification, Validation & Certification

Payload & Guidance

- Automatic Traffic Control Transponder
- Automatic Dependent Surveillance (ADS)
- Sense and Avoid (SaA)
- Electro Optical (EO) Detectors, Optics, Radome & Electronics
- Imaging InfraRed (IIR) Detectors, Optics, Radome & Electronics
- Radio Frequency (RF) Transmitter, Receiver, Antenna & Electronics
- Turret Systems
- Airborne Radio Detection and Ranging (RADAR) Systems
- Synthetic Aperture Radar (SAR)
- Light Detection And Ranging (LIDAR)
- Laser Scanner
- Image & Signal Analysis and Processing
- Intelligence, Surveillance & Reconnaissance (ISR)
- Automatic Target Recognition & Tracking (ATR, ATT)
- Search and Rescue (SaR)
- Defensive Aids
- Verification, Validation & Certification

Committee Members Navigation

Dr. Bernhard Keidel, R&D Project Manager, EMT, Germany
Thomas Löffler, Senior Engineer Integrated Navigation Systems, Diehl BGT Defence, Germany

Committee Members Payload & Guidance

Prof. Dr. Rolf-J. Ahlers,
Managing Director, ProxiVision GmbH, Germany
Roland Goerke, Avionic Systems, Airbus Defence and Space, Germany
Dr. Mirko Jakovljevic, Senior Marketing Manager, TTTech Computertechnik AG, Austria

Further information on
this symposium

www.NewSpace.tech

NewSpace

- Mega constellations
- Small satellites – affordable space solutions
- Big Data
- Space Law – will lawyers prevent NewSpace?
- SatCom – New challenges for NewSpace?
- Space – Innovations from Space & for Space
- Launchers at the crossroads – challenges, affordability and solutions
- Additive Manufacturing

Chairmen

Prof. Dr. Klaus Schilling,
University of Würzburg, Germany

Dipl.-Math. Bärbel Deisting,
Director Space and Space Applications, bavAIRia e.V., Germany

Committee Members

Prof. Dr. Alin Olimpiu Albu-Schäffer,
Director DLR-German Aerospace Centre
for Robotics and Mechatronics, Wess-
ling, Germany

Dr. Major Chahal, Head of Techno-
logy Transfer and Standards, UK
Space Agency, United Kingdom

Giovanni D'Aliesio, Manager New
Business Electronics, MDA, Canada
Prof. Dr. Roger Förstner, Institute of
Space Technology & Space Appli-
cations, Universität der Bundeswehr,
Munich, Germany

Vice Chairman

Dr. Cornelius Schalinski,
Deputy Head Business Development,
OHB System AG, Germany

Hon. Prof. Dr. Eveline Gottzein,
Processing & Platform Equipment, Airbus
Defence and Space, Germany
Dr. Peter Hofmann, Director
Space Research & Technology Consult-
ing, OHB System AG, Germany
Prof. Dr. Alexander Nebylov, Director
of IIAAT SUAI, St. Petersburg, Russia
Matthieu Roulet, Head of Strategy &
European Business Development, Airbus
Defence and Space, France
Dr. Martin Sippel, DLR Bremen,
Germany

Welcome to Munich The home of AIRTEC

1. One of Europe's leading aerospace hubs
2. One of the top five aerospace locations worldwide
3. High diversity of technological competence
4. Conveniently accessible from anywhere around the world
5. Premium infrastructure for reliable transport
6. Excellent range of hotels in every price category
7. Cultural and gastronomic highlights
8. Unique flair and charm of Munich



Expected figures
AIRTEC 2016

900

Congress
Participants

200

Lectures

3

Days

Statements 2015

» I am working in the aerospace industry for almost 30 years. However, we can never think that we have already seen everything. We are always surprised with new and innovative ways of doing things.

I have already been involved in many other aerospace events, but I have never seen something like this: during 3 days, all people involved, exhibitors, visitors shared some kind of happiness that I am not able to express by words.

AIRTEC is like a perfect storm (in the good sense): Aerospace industry people from all over the world in Munich.

Everyone connected with aerospace industry must be involved and share this experience that happens every year, in Germany.«

OGMA, Francisco Celorico, Subcontracting & Raw Materials Procurement (Portugal)

» Of AIRTEC we appreciated the interesting presence of industries from various nations, the B2B platform which allows to enter in contact and prepare the meetings well in advance and the 'atmosphere' which looks more informal compared to other events and, thanks to the great hospitality of the AIRTEC team, helps to build networks among the attendants. «

Alenia Aermacchi/Airbus, Maria Di Sarno,
Assistant to Procurement & Supply Chain



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