



Submission Deadline – May 31, 2010

The programme committee welcomes your contributions on the following major topics 3rd and 4th of November 2010.

We kindly ask you to submit us the title of your lecture and a short abstract (approx. 2000 characters in English language) to rosalina.pahl@demat.com. In case the subject of your lecture is not included in the major topics we would be very pleased if you send us a subject suggested by you.

Please send your abstract (approx. 2000 characters) until latest **May 31st, 2010** to the conference organiser airtec GmbH & Co. KG under the email rosalina.pahl@demat.com.

Your abstract will be sent to the Chairman of the Conference, **Professor Dr.-Ing. Stefan Levedag**, German Aerospace Centre (DLR) Institute of Flight Systems, Braunschweig, Germany. All speakers will be required to be registered participants of the conference.

Key Dates

May 31st, 2010 Abstract submission deadline
 May 30th, 2010 Notification of acceptance
 Sept. 30th, 2010 Deadline for technical paper submission

| Registration Fees | | | | | |
|--|-------------------------------|-----------------------------|----------------------------|--------------------------|----------|
| | Early Bird* Non-Exhibitors | Early Bird* Exhibitors** | Standard Non-Exhibitors | Standard Exhibitors** | Speakers |
| 2 Days Registration | € 450,- | € 400,- | € 600,- | € 450,- | € 400,- |
| Students and governmental institutions €100,- | | | | | |
| All prices include VAT | | | | | |
| Delegate information: The registration includes admission to the conference and to the exhibition, conference documentation, CD and refreshments and lunch for the 2 days conference. Please ask for sponsoring possibilities. | | | | | |
| *Registration until May 31, 2010 **Your company must be an exhibitor at AIRTEC 2010 to qualify for the exhibitor registration rate. | | | | | |

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Prof. Dr.-Ing. S. Levedag, Dir. DLR-Institute of Flight Systems, Braunschweig

Scientific and Technical Committee

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Prof. R. E. Brown, Research Dir. Aerospace Engineering, University of Glasgow

Prof. Dr. h.c. J. G. Goldammer, Head of Global Fire Monitoring Center, Freiburg University / United Nations University (UNU)

Venue

Exhibition Center Frankfurt/Main, Germany

Recommendations for hotel bookings will be published on our website.

Conference Organiser

airtec GmbH & Co. KG – **Dipl.-Ing. Volker Schulze**, Managing Director

airtec GmbH & Co. KG

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2nd International HELI World Conference 2010

HELICOPTER Technologies and Missions

November 3 – 4, 2010

Exhibition Centre Frankfurt / Main
Germany



CALL FOR ABSTRACTS

Submission deadline: May 31, 2010

www.airtec.aero



HELI World Technologies and Missions

HELI World has become a meeting place for everyone involved in helicopter systems and operations. In 2010, we will meet for the second time during the AIRTEC exhibition in Frankfurt. As helicopter and their systems will improve more and more, **HELI World** is one of the focal meeting points for science, industry, and users, be it governmental and non-governmental. The 2010 conference will cover all aspects of helicopters from design to structures from engines to rotor technologies, from sensors to sense and avoid technologies, from communication to navigation and last but not least from operational aspects for transportation to cargo, fire and rescue tasks.

Along with AIRTEC 2010, International Aerospace Supply Fair, the 2nd International **HELI World Conference** will take place on November 3rd and 4th, 2010 (Exhibition Centre Frankfurt/Main) under the motto "**HELICOPTER Technologies and Missions**".

We are looking forward to your highly esteemed contribution to **HELI World 2010**. It will be our pleasure to welcome you and all other distinguished guests at the conference. As in the year before the conference will be accompanied by an exhibition, which will present structures, systems, sensors and services related to helicopter technologies and operations. The international Frankfurt exhibition centre is the ideal place for exchanging information, building partnerships and friendships.

We are looking forward seeing you at **HELI World 2010**.

1st Day – HELICOPTER Technologies

Rotor Technologies

- New blade design for noise reduction and high forward speed
- Active rotor control

Alternative Rotary Wing Concepts

- Enhancement of rotary wing speed, compound, tilt rotor
- Autogiro

Drive Train/Propulsion

- Engine technologies, high power, small and light engines
- Transmission
- Main rotor torque compensation
- HUMS

Fuselage Design

- Lightweight composite frames
- Lightweight metal frames
- Crash absorbing structures

Avionics

- High integrated avionic and navigation systems

Pilot Assistance

- Sensors
- High resolution and vibration controlled optical systems
- Sense and avoid technologies for obstacles
- Active interceptors, HMI
- Handling qualities

2nd Day – HELICOPTER Operations

Civil Transportation

- Flight optimization
- Off shore aspects
- Cost control

Military Transportation

- Transportation challenges in crisis areas
- DVE, brown and white out
- Small arms fire
- Future operations
- Future transport helicopter, status and planning

Slung Load-Transportation

- Interaction challenges between helicopter and outboard loads, avoidance of oscillations
- Operations challenges with saw blades, fertilizer and liming flights
- Winch operation

Surveillance Missions

- Coast control
- Smuggling challenges
- Environment protection challenges

Fire Fighting & Equipment

- Forest fire fighting
- High rise fire fighting
- Interaction between UAS and helicopter

Rescue

- Flight optimization
- Onboard rescue systems

Emergency Operation

- Power loss
- Lessons learned from accidents