

GENERAL INFORMATION

Venue

ATLANTIC Hotel Universum

Wiener Str. 4, 28359 Bremen, Germany
www.atlantic-hotels.de/universum

Conference Secretariat

German Society for Non-Destructive Testing (DGZfP e.V.)

Steffi Dehlau

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Conference Material

At the conference, participants will get a booklet of all abstracts of the programme contributions and the proceedings with the full papers.

Hotel Reservation

We have special conditions in the following hotels (reservation until 1 October 2015):

- ATLANTIC Hotel Universum (conference hotel)
- 7 THINGS – my basic hotel

Information and reservation form please find on the website.

Website

The www.ndt-aerospace.com website has been prepared for the conference. It is updated regularly.

Exhibition

| **Deadline: 30 September 2015**

A vendor exhibition will be conducted to complement the technical presentations. A limited number of exhibit booths of at least 6 sqm is available.

The rental fee is 300 Euro per sqm plus Value Added Tax (VAT). For each booth one conference badge with full conference participation will be provided (for 12 sqm or more two badges).

Booth rental includes:

- Standard wall divisions (white)
- Standard signboards with max. 20 characters (black)
- Standard plug (16 A / 230 V)
- 1 spot (for larger stands more)
- 1 counter, 1 bistro table and 2 bar stools
- Cleaning (at night)

Floor plan and reservation form please find on the website.

COMMITTEES

Organising Committee

Christian Boller

Saarland University, Saarbrücken, Germany

Randolf Hanke

Fraunhofer IIS, Saarbrücken, Germany & University of Würzburg, Germany

Matthias Purschke

DGZfP, Berlin, Germany

Steffi Dehlau

DGZfP, Berlin, Germany

Scientific Committee

George Akhras

Royal Military College of Canada, Kingston, Canada

Philippe Benoist

M2M, Les Ulis, France

Christian Boller

Saarland University, Saarbrücken, Germany

Vicente Cortés

Airbus, Madrid, Spain

Esmeralda Cuevas

Tecnatom, Madrid, Spain

Uwe Ewert

BAM, Berlin, Germany

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Defence Science and Technology Organisation, Melbourne, Australia
Boeing Commercial Aircrafts, Seattle, USA

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Indian Institute of Science, Bangalore, India

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Marc Kreutzbruck

University of Stuttgart, Germany

Andrew Malcolm

Singapore Institute of Manufacturing Technology, Singapore

Patrice Masson

GAUS – Univ. de Sherbrooke, Canada
Polish Academy of Sciences, Gdansk, Poland

Wieslaw Ostachowicz

NASA, Hampton, USA

William H. Prosser

DGZfP, Berlin, Germany

Matthias Purschke

University of Bristol, United Kingdom

Robert Smith

Fraunhofer EZRT, Fürth, Germany

Norman Uhlmann

Nanjing University of Aeronautics and

Shenfang Yuan

Astronautics, Nanjing, China



GERMAN
SOCIETY FOR
NON-DESTRUCTIVE
TESTING



Fraunhofer

FIRST ANNOUNCEMENT & CALL FOR PAPERS

7th International Symposium on NDT in Aerospace



16 – 18 November 2015
Bremen, Germany



Non-Destructive Testing and Evaluation (NDT&E) is one of the major requirements in aerospace structural design. Hardly any of the components manufactured is not allowed to pass quality assurance without having gone through any of the various NDT procedures being around. For damage tolerant design as used in aviation NDT is a prerequisite. Appropriate use of NDT guarantees safety in aerospace and is thus a subject of highest attention. Although aerospace industries have to clearly stick to certified NDT procedures, there is a large amount of technology being currently developed within the engineering science discipline, which is worth to be discussed with respect to their potential of being applied. The widespread use of emerging materials such as CFRP composites as well as new manufacturing processes for aerospace structural components has also given rise to many new questions regarding the materials' reliability and manufacturing methods in the light of non-destructive evaluation, both from a research as well as a manufacturing and assembly point of view. Automation in NDT using robotics is major issue among various others being highly discussed within the aeronautics community. To communicate latest R&D achievements to industrial applicants on the one hand and to discuss advanced and improved methods both with scientists as well as industrial researchers on the other, the Symposium for NDT in Aerospace has been established in 2008 and has been organised on an annual basis since 2010. It is run in places worldwide all around the globe where aerospace has a home including Hamburg/Germany, Montreal/Canada, Augsburg/Germany, Singapore and Madrid/Spain so far. The 7th Symposium for NDT in Aerospace will now be held in November 2015 in Bremen/Germany.

Major topics to be discussed among others at this event will include the physics of NDT, sensors and material interaction, design of complete inspection systems and data evaluation such as for automated image processing. A special focus will also be towards improvement in inspection speed and transfer of laboratory NDT into production and manufacturing process integrated testing for in-line inspection. Presentations are expected to have a strong relation to current and future applications for material characterisation and component inspection within a laboratory and production environment. Contents may range from existing and new results as well as new and challenging NDT ideas still under research and development. It is hoped to combine and bring together the experience of industrial researchers and practitioners with the ideas and creativity of scientists to enable a fruitful dialogue for further improvement of NDT in Aerospace.

This Symposium of NDT in Aerospace is intended to provide uniqueness also in a way that it will be held as a single session event only, where every speaker will be given a voice to the plenum. Well selected invited speakers will address topics of high relevance in special keynote lectures and specific reception-typed discussion forums will be established as parallel events where different speakers as well as exhibitors will be able to extensively discuss NDT topics of relevance to aerospace during late afternoon sessions while symposium attendees are welcome to learn about the relevant issues of NDT in aerospace.

Scope

- ⇒ NDT methods like ultrasound, x-ray, thermal imaging, laser based and optical surface inspection etc.
- ⇒ Component inspection
- ⇒ Material characterisation
- ⇒ Data evaluation and image processing
- ⇒ NDT system design
- ⇒ Production integrated NDT&E
- ⇒ Mobile NDT&E for maintenance, repair and overhaul
- ⇒ Damage tolerance
- ⇒ Aircraft aging
- ⇒ Structural health monitoring

Presentations addressing the topics mentioned above and considering any NDT methods proposed such as thermal imaging, eddy current, ultrasonics, optics, x-ray testing and many others will be most welcome. Opportunities for exhibition of technology and posters will be provided, as well as technical visits to relevant aerospace companies.



Prof. Dr.
Randolf Hanke
Fraunhofer IIS and
University of Würzburg



Prof. Dr.-Ing.
Christian Boller
Saarland University



Dr.-Ing.
Matthias Purschke
German Society for
Non-Destructive Testing

Important Deadlines

Deadline for abstract submission	17 May 2015
Payment of presenting authors	30 June 2015
Final programme	August 2015
Early registration deadline	31 August 2015
Deadline for full papers	15 September 2015

Submission Guidelines

Deadline: 17 May 2015

You are invited to submit abstracts in accordance with the following guidelines:

- ⇒ Registrations of papers will only be considered if they are submitted completely, i. e. together with all requested data and the abstract.
- ⇒ Authors are allowed to register more than one paper.
- ⇒ English being the conference language, the contributions have to be submitted and presented in English. Translation into other languages will not be provided.
- ⇒ All abstracts have to be submitted online at www.ndt-aerospace.com by **17 May 2015**.
- ⇒ Authors should indicate their preference for oral presentation, poster presentation or poster with short presentation. The final decision will be made by the programme committee.
- ⇒ Authors will be informed about the acceptance of their contributions in June 2015.
- ⇒ Authors whose paper was accepted have to register via the online-form and pay the registration fee before 15 August 2015. The registration is binding and non-refundable. Contributions of authors, who have not paid the registration fee by 15 August 2015 will be cancelled.
- ⇒ The full paper, formatted according to the template, must be received by DGZfP as an electronic file by 15 September 2015. The proceedings will be available at the conference.

Please use the electronic submission form on the website: www.ndt-aerospace.com

Fees

Registration by 31 August 2015	680.00 €
Registration after 31 August 2015	730.00 €
Presenting authors	550.00 €
Students (without university degree)	200.00 €

including all conference activities, proceedings, social programme, coffee breaks, lunch

The participation in the symposium will be connected with:

- ⇒ a visit to the AEROSPACE TESTING ZONE within the Aerospace Electrical Systems Expo Europe
- ⇒ excursions to aviation companies (e.g. Airbus)