

5TH INTERNATIONAL SYMPOSIUM ON NDT IN AEROSPACE

13-15 November 2013
Singapore



www.ndt-aerospace.com

Preface

Non-Destructive Testing and Evaluation (NDT&E) is one of the most critical aspects within the field of aerospace engineering and structural design. A wide range of NDT procedures ensure that not a single manufactured component reaches service without first passing a series of stringent tests. In fact, today, NDT is trusted as a guarantee for safety in the aerospace arena, making new research in the field a matter of strategic and essential attention.

Although aerospace industries are constrained to the use of certified NDT procedures, there is a large volume of new R&D that is ready to be applied to the various technologies. The widespread use of modern materials, as well as new manufacturing processes in the industry, has also given rise to many new questions regarding their reliability and methods; both from a research as well as a manufacturing point of view. The continuous discussion on carbon fibre-reinforced composites versus high performance metals substitution is just one of the many ground breaking debates underway.

Rising to the need for a critical dialogue on new developments in the field, the Symposium on NDT in Aerospace was established in 2008, with DGZfP and Fraunhofer IIS hosting the first congress in Fürth. The symposium series aims to propagate the twin agendas of communicating the latest R&D results to industrial users and providing scientists and industrial researchers with a common platform to discuss advancements and improvements in the subject.

After further successful events in Hamburg (2010), Montreal (2011), and Augsburg (2012), the 5th Symposium for NDT in Aerospace will be held in Singapore in November 2013.

The main topics at this event will be the physics of NDT, sensors and material interaction, the system design of complete inspection machines and the data evaluation by automated image processing. Special focus will be given to improvements in inspection speed and the transfer of laboratory NDT towards production and manufacturing process-integrated testing for inline inspection.

The presentations will have a strong relation to current and future applications for material characterisation and component inspection for laboratory and production environments. Presentations will encompass new results of established NDT systems as well as new and challenging NDT ideas which are still under research and development. Thus, we hope to combine and bring together the experience of industrial researchers with the ideas and the creativity of scientists to enable a fruitful dialogue for further improvement of NDT in Aerospace!

Scope

- NDT methods like ultrasound, X-ray, thermal imaging, eddy current, 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

Opportunities for exhibition of technology and posters will be provided. Please contact the Conference Secretariat if you are interested to participate in the exhibition.

Fees

Type	Early Bird (Before 31 July 2013)	Regular (After 31 July 2013)
All Delegates (including presenters)	S\$850	S\$950
NDTSS/DGZfP/ BINDT Members	S\$650	S\$750
Students (Full-time)	S\$450	S\$550

Registration

- Delegate registration should be done through the symposium website at: www.ndt-aerospace.com
- The symposium fee includes all symposium activities, proceedings on CD-ROM, technical visits, banquet dinner, lunch and coffee breaks.
- At the symposium participants will receive a booklet of all abstracts of the programme contributions and the symposium proceedings on CD-ROM with the full papers.

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Submission Guidelines

- Author registration and abstract/paper submission is available on the Conference Management Cloud at: www.NDT.net/aeroNDT2013
- Registrations will only be considered if they are submitted together with all relevant data and the abstract.
- Registered authors may present a maximum of two (2) papers.
- English being the symposium language, contributions must be submitted in English.
- One-page abstracts (max. 2500 characters) should be submitted by 31 July 2013 via NDT.net
- Authors whose papers are accepted must send their registration form to the Secretariat and pay the symposium fee before 15 August 2013. The registration is binding.
- The manuscript (in English) must be received by the Secretariat as an electronic file by 15 September 2013 via NDT.net
- All symposium papers will be published open access in NDT.net (e-Journal of Non-destructive Testing ISSN 1435-4934) and in e-Proceedings

Venue



Grand Copthorne Waterfront Hotel Singapore
392 Havelock Road
Singapore 169663
Telephone: (+65) 6733 0880
Fax: (+65) 6737 8880
www.millenniumhotels.com.sg/grandcophornewaterfront/

Hotel Reservation

Symposium delegates will be able to book rooms at the Grand Copthorne Waterfront Hotel at a special rate subject to availability.

Welcome to Singapore



Located in Southeast Asia, Singapore is one of the smallest countries in the world but commands an enormous presence with its free trade economy and highly efficient workforce. With a strategic location in the region, Singapore boasts one of the world's best airports and is a regional leader in aerospace maintenance, repair and overhaul (MRO) and manufacturing. The country also operates one of the world's busiest ports.

Visa

Most foreigners do not require a visa for entry and may be given social visit passes for up to 30 days upon arrival. Please consult the Immigration & Checkpoints Authority website for the latest information: www.ica.gov.sg

Weather

Hot and humid with little variation throughout the year. Average daytime temperature is 31°C (88°F), dropping to around 24°C (75°F) in the evenings. The monsoon season can bear down pretty heavily from November onwards, so be prepared for rain on a daily basis during this period.

Getting around

The Mass Rapid Transit (MRT) system is one of the world's cleanest transport systems, and probably the fastest way to get around Singapore. You can download the train route map from www.smr.com.sg

Taxis are readily available at very reasonable cost. All taxis are required to display the metered fare and applicable surcharges.

Money

The local currency is the Singapore dollar. Foreign currencies can be changed either in banks or with moneychangers conveniently located around the island. Major credit and charge cards such as Visa, MasterCard, American Express and Diners are accepted at most establishments.

Further information & tourist attractions

www.yoursingapore.com

www.mydestination.com/singapore

Industrial Visits

Delegates will be able to participate in technical visits to local aerospace companies during the symposium. Transportation will be provided to and from the conference venue.

Places will be available on a first-come-first-served basis subject to approval by the company to be visited.

Short Courses

A number of short courses will be run in conjunction with the symposium on Monday 11 and Tuesday 12 November. Areas to be included are Structural Health Monitoring, 2D/3D X-ray Imaging, Automation in NDT and Thermography.

For further details please check the symposium website.

Secretariat

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