Call for Posters
On Thursday, December 4th, a poster session will be held. All symposium participants are welcome to contribute posters that are associated with relevant topics on NDT in aerospace. Posters will be displayed during the symposium. Selected posters will be presented during the poster session. A short abstract (1 page) is required for submission. This abstract or a manuscript (about 8 pages) will be published in the symposium proceedings as well. For poster submission please see the website www.ndt-aerospace.fraunhofer.de
Deadline for submission of abstract: October 15th, 2008.
Venue
Stadthalle Fürth, Rosenstr. 50, 90762 Fürth, Germany
www.stadthallefurth.de
Language
All technical papers will be presented in English, simultaneous translation will not be provided.
Proceedings
The proceedings will include all papers presented during the conference (if manuscripts have been submitted in time) and will be available at the conference.
Manuscripts
Guidelines for preparing and submitting manuscripts are published on the conference website.
Contact and Information
Website of the symposium: www.ndt-aerospace.fraunhofer.de
Programme
Fraunhofer Development Center X-ray Technology
Dr. Randolph Hanke, dt-Attack Str. 81, 90762 Fürth, Germany
Phone: +49 911 58061-7510, Fax: +49 911 58061-7599
E-mail: randolph.hanke@iis.fraunhofer.de
Conference Secretariat
German Society for Non-Destructive Testing (DGZfP e.V.)
Stefi Schäcke, Max-Planck-Straße 6, 12489 Berlin, Germany
Phone: +49 30 67807-120, Fax: +49 30 67807-129
E-mail: tagungen@dvgf.de
Hotel Reservation: Forth Tourist Information
Bahnhofsplatz 2, 90762 Fürth, Germany
Phone: +49 911 740 6615, Fax: +49 911 740 6617
E-mail: renae.schneider@fuerth.de
Reservation form please find at www.ndt-aerospace.fraunhofer.de

FRIDAY, DECEMBER 05, 2008

GENERAL INFORMATION
Registration
until November 15th, 2008 please send to
German Society for Non-Destructive Testing (DGZfP e.V.)
Nordpark 6, 12489 Berlin, Germany
Phone: +49 30 678 07-121/122
Fax: +49 30 678 07-129
E-mail: tagungen@dvgf.de
Internet: www.ndt-aerospace.fraunhofer.de
Participation fees
Participant
Early Registration until September 20th, 2008) 470 €
Participant
500 €
Students without university degree
180 €
Presenting author/poster presenter
250 €
* including all conference activities, proceedings, social programme, coffee breaks, lunch, ticket for public transport
Payment
The payment of the participation fees is requested only in EUR and has to be done after receipt of invoice until November 15th, 2008 the latest (receipt of payment).
All payments after this date have to be done by credit card (Visa or Mastercard) or cash at the registration desk.
Bank transfer
DGZfP e.V., Berlin Volksbank, Kekuléstr. 2-4, 12489 Berlin, Germany
Acc. No. 5940 040 002, BLZ (code) 100 900 00
For international bank transfer please use our International Bank Account Number (IBAN)
DE 57 100 900 54 000 400 005 02
SWIFT Code (BIC) BEVODD BB
Please quote name of participant and code «Aerospace».
Cancellation
until October 31st, 2008 (receipt at DGZfP): 25,00 €
after October 31st, 2008: 50 % of the participation fee
Social Programme and Meetings
Open Meeting of the Forum of National Aerospace NDT Boards Wednesday, December 3rd, 15:30
Champagne Reception, Wednesday, December 3rd, 18:00
Christkindlesmarkt in Nuremberg, Thursday, December 4th, 18:00
Conference Dinner, Thursday, December 4th, 20:30

Exhibition
An exhibition linked to the conference subjects will be open to conference delegates. Interested companies or institutes are invited to present their NDT equipment, NDT methods and newest developments for NDT in Aerospace. More information and form for ordering exhibition space please find at www.ndt-aerospace.fraunhofer.de

DEUTSCHE GESELLSCHAFT FUR ZERSTORUNGSFREI PROFUNDING E.V.
The widespread use of modern materials, especially in the aerospace industry, has given rise to new questions regarding their reliability and methods for their non-destructive testing and characterization. The substitution of singular materials, like aluminum, by composite materials, especially carbon fiber reinforced plastics, requires the development of advanced testing methods.

In April 2005 the project „Development Center for Non-Destructive Testing of New Materials in Aerospace“ (*ZeLuR*) was authorized at the „Technikum Neue Materialien“ in Fürth. This project with a term of 4 years is funded by the Free State of Bavaria with the aid of the Objective 2 Programme Bavaria 2002 – 2006 of the European Union.

This project is addressing the various demands of different methods for the non-destructive testing of those new materials in the aerospace industry. Its focus is on the most commonly used techniques in this area, namely x-ray, ultrasonic, optical and thermal inspection and testing.

To strengthen the scientific foundation of these new NDT methods and applications this symposium will be held in December 2008.

### Scope of Conference

This symposium intends to address scientific issues in the field of non-destructive testing in Aerospace. During the two days, different aspects and methods will be presented.

The conference program is divided into different sessions addressing: Thermography, Ultrasonics, X-ray (radioscopy, ct, detectors), Computed Tomography, Active and passive thermography, and Lock-in thermography.

### Wednesday, December 3, 2008

#### 15:30 Open Meeting of the Forum of National Aerospace and Materials Research in Stuttgart (Germany)

#### 18:00 Reception and Registration

#### 09:00 Chair: G. Busse, IKT, Universität Stuttgart (Germany)

#### 09:15 Characterization of Aerospace Materials by using Air-Coupled Guided Waves and Nonlinear Ultrason L. von Bernus, Q NET Engineering, Saarbrücken (Germany)

#### 09:35 Advanced Solutions for Ultrasonic Inspection of Aircraft Engine Run Hardware Components M. Eberhorn, Fraunhofer IIS, EZRT, Fürth (Germany)

#### 09:55 Three Phased Array A. Bulanovic, Fraunhofer IZFP, Saarbrücken (Germany)

#### 10:15 Implementation of Innovative Ultrasonics M. Spies, Fraunhofer ITWM, Kaiserslautern (Germany)

#### 10:35 Advanced Ultrasonic NDT of Aero Engine M. Spies, Fraunhofer ITWM, Kaiserslautern (Germany)

#### 10:55 Coffee Break

### Thursday, December 4, 2008

#### 13:35 Chair: G. Boller, Fraunhofer IZFP, Saarbrücken (Germany)

#### 13:55 Chair: R. Oster, Eurocopter Deutschland, München (Germany)

#### 14:00 The Next Generation of Photon Counting X-Ray Detectors M. Campbell, EP Division CERN, Genf (Switzerland)

#### 14:20 Chair: G. Anton, Universität Erlangen-Nürnberg (Germany)

#### 14:40 Chair: U. Haßler, I. Bauscher, S. Oeckl, Fraunhofer IIS, EZRT, Fürth (Germany)

#### 14:50 Mobile X-Ray Inspection of Light Weight Materials M. Eberhorn, Fraunhofer IIS, EZRT, Fürth (Germany)

#### 15:10 Mobile X-Ray Inspection of Light Weight Materials U. Ewert, BAM, Berlin (Germany)

#### 15:30 Radiological NDT for the Aircraft Industry C. Bueno, GE Global Research, Niskayuna (USA)

#### 15:50 Coffee Break

#### 16:10 Chair: J. Kastner, FH Oberösterreich, F&E, Wels (Austria)

#### 16:20 Chair: A. Bulavinov, Fraunhofer IZFP, Saarbrücken (Germany)

#### 16:40 Chair: R. Berger, Steinbichler Optotechnik, Neubeuern (Germany)

#### 17:00 Chair: T. Schön, Fraunhofer IZFP, Saarbrücken (Germany)

#### 17:20 Chair: J. Gryzagoridis, D. Findeis, Mechanical Engineering University, Kapstadt (South Africa)

#### 17:40 Chair: C. Boller, Fraunhofer IZFP, Saarbrücken (Germany)

#### 18:00 Visit to the famous Christkindlesmarkt in Nuremberg, afterwards Dinner in the famous restaurant „Bratwurst-Röslein“ (www.christkindlesmarkt.de/english/)

### Friday, December 5, 2008

#### 09:00 Chair: T. Schön, Fraunhofer IZFP, Saarbrücken (Germany)

#### 10:00 Chair: J. Gryzagoridis, D. Findeis, Mechanical Engineering University, Kapstadt (South Africa)

#### 11:00 Chair: M. Maisl, Fraunhofer IZFP, Saarbrücken (Germany)

#### 12:20 Chair: R. Berger, Steinbichler Optotechnik, Neubeuern (Germany)

#### 12:40 Chair: C. Boller, Fraunhofer IZFP, Saarbrücken (Germany)