

# Preliminary Program of NDT in Progress 2013

## November 6 (Wednesday)

17:00 – 20:00 Special Evening Program at IZFP-D for participants with early arrival and participants from the Airport seminar

## November 7 (Thursday)

### 9:00 Welcome reception

9:20 H. Heuer – Quality Assurance along the CFRP Value Added Chain - Non-Destructive Testing of Fabrics, Preforms and Components with Eddy Current Imaging

10:00 B. Salski et al. - Radio Frequency Sensing for Non-Destructive Testing of Carbon Fibre Reinforced Composite Materials for Structural Health Monitoring

### 10:30 Coffee Break

11:00 R. Grimberg et al. - The Challenge of 4th Generation of Nuclear Reactors for Eddy Current Examination

11:30 M. Blaow – Detection of the Heat Affected Zone in Welded Steel by Magnetic Barkhausen Emission

12:00 Poster short presentations (5 min each)

### 12:45 Lunch

13:50 M. Kreuzbruck – Evolution of Modern Acoustical and Electromagnetic Sensor/Actor-Technologies for the Inspection of Lightweight Components

14:30 F. Schubert – High-resolution Ultrasonic Imaging of Resistance Spot Weldings

15:00 A. Yousefi – Heavy Wall Pipe Line Inspection by Phased Array Ultrasonic Test (PAUT) and Comparison with Conventional NDT Methods

### 15:30 Coffee Break

16:00 S. Hirsekorn et al. – Ultrasonic Monitoring and Evaluation of Very High Cycle Fatigue of Carbon Fiber Reinforced Plastics

16:30 T. Y. Han et al. – A study of EBSD Image Based Ultrasonic Wave Propagation Modeling in Dissimilar Metal Weld

### 17:00 End of Session

17:15 Poster Discussion and Technical Exhibition

19:00 – 23:00 Evening Program

## November 8 (Friday)

08:50 A. Karabutov – Contact Laser Ultrasonic Evaluation (CLUE) System for Lightweight Materials and Parts

09:30 A. Savin et al. – Can Ultrasonic Resonant Spectroscopy be a Tool for Diagnostic of Medical Prosthesis ?

10:00 R. Franke – Damage mechanisms in CFRP under static and dynamic loading (to be confirmed)

### 10:30 Coffee Break

11:00 M. O'Byrne et al. – A Comparison between Pixel Intensity and Texture Analysis based Damage Detection Techniques

11:30 R. Vizcaya & V. Uhl - Characterisation of Artificially Weathered Carbon-Reinforced-Fibre Polymers with Pulsed-Phase Thermography

12:00 R. Schwerz et al. – Reliable Integrated Ultrasonic Microsystems for SHM in CFRP Structures

### 12:30 Lunch

13:30 IZFP-D Lab tour

### 15:00 Departure

(5 min by Taxi to Dresden Airport, 20 min by S-Bahn to Dresden Main Station)