



3rd Academia Day of the Zwick Roell Group

„Determination of the mechanical properties of metallic lightweight materials and composites“

14th March 2012

Location: Technical University of Munich



Agenda

- 8.30 a.m. **Registration and come together**
- 8.45 a.m. **Opening address and introduction of the Zwick Roell Group**
Introduction of the UTG TU Munich
Dr. Jan Stefan Roell, Zwick GmbH & Co. KG
Prof. Dr.-Ing. Wolfram Volk, Faculty of Mechanical Engineering, Institute of Metal Forming and casting, Technical University of Munich
- „Improved description of the anisotropic material behavior of DC06 and DP800 steel in the forming simulation with variable r-values“**
M.Sc. JaeKun Kim, Prof. Dr.-Ing. Wolfram Volk, Faculty of Mechanical Engineering, Institute of Metal Forming and casting, Technical University of Munich
- „Determination of the mechanical properties of materials for aerospace applications“**
Dr.-Ing. Christian Kremaszky, Prof. Dr. mont. habil. Dr. h. c. Ewald Werner, Institute of Materials Science and Mechanics of Materials, TU Munich
- „Residual stress analysis by neutron diffraction“**
Dr. Michael Hofmann, Prof. Dr. Winfried Petry, Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FRM II) TU Munich
- 10.45 a.m. **Break**
- „Experimental characterization of dimensionally stable composite materials and components.“**
Dipl.-Ing. Matthias Friemel, Dipl.-Ing. Martin Perterer, Prof. Dr. Horst Baier, LLB Institute of Lightweight Structures, TU Munich
- Material challenges for the Nuclear Energy Industry**
Prof. John Yates, Director of the Centre for Modelling and Simulation, Manchester University
- Mechanical tests of light alloys and metal-polymeric laminates at FSUE VIAM**
Ph.D. Vladislav Antipov; Ph.D. Alexander Raskutin; Ph.D. Vladimir Erasov and Ph.D. Elena Chabina
- Granting of the Zwick Science Award and the Paul Roell Medal by Dr. Jan Stefan Roell, Prof. Dr.-Ing Wolfram Volk and Professor John Yates**
- 1.00 p.m. **Lunch**
- 2.00 p.m. **Tour TU Munich Garching (approx. 1h)**
1. Program:
Visit of the FRM II Garching (60-90 min.)
- or
- 2. Program:**
Visit of the testing lab of the UTG (1h)
Workshop testXpert® (1h)
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