

<b>Program 7th X-ray Forum 2011 in Berlin</b>		
<b>Tuesday, August 30</b>	<b>Speaker</b>	<b>Parallel Tutorial Sessions</b>
11:30	<b>Registration open, welcome reception</b>	
12:30	<b>Welcoming</b>	Juan Mario Gomez, Dr. Tobias Neubrand, GE Measurement & Control Solutions
12:40	<b>Introduction</b>	Dr. Holger Roth, GE Measurement & Control Solutions, Stuttgart, Germany
	<b>Developments: Systems, Software, Solutions</b>	
13:00	<b>Advances in reliable 2D X-ray inspection</b>	Dr. Tobias Neubrand, GE Measurement & Control Solutions, Wunstorf, Germany
13:30	<b>Recent developments of hard- and software for industrial resolution CT systems</b>	Dr. Oliver Brunke, GE Measurement & Control Solutions, Wunstorf, Germany
14:00	<b>Advanced testing machines and detectors</b>	Hans Uwe Matzen, GE Measurement & Control Solutions, Ahrensburg, Germany
14:30	<b>Short introduction to demo systems and tutorial organization</b>	Thomas Mayer, GE Measurement & Control Solutions, Wunstorf, Germany
15:00-15:30	<b>Coffee break</b>	
	<b>Inspection of electronics</b>	
15:30	<b>The use of X-ray imaging for Failure Analysis in the Semiconductor Industry</b>	Guus Bock, Failure Analysis, Regional Quality Center Europe, NXP Semiconductors, Nijmegen, The Netherlands
16:00	<b>Inspection standards from vision to X-ray</b>	Andrea Lemke, Trainalytics GmbH, Lippstadt, Germany
16:30	<b>Inspection of electronic components and sensors</b>	Kees Revenberg, Maser Engineering, Enschede, The Netherlands
17:00	<b>Closing Remarks</b>	Dr. Holger Roth, GE Measurement & Control Solutions, Stuttgart, Germany
	<b>Evening Program</b>	
17:45-22:00	<b>Berlin Sightseeing Cruise on River Spree incl. Dinner on Board, starting at Estrel jetty</b>	
<b>Wednesday, August 31</b>		<b>Tutorial</b>
08:00	<b>Palaeontological CT: Fossils and X-rays - Exploring new dimensions in palaeoanthropology</b>	Dr. Iris Trautmann; Prof. Dr. Katerina Harvati und Frau Dr. Heike Scherf, Senckenberg Zentrum für Humanevolution und Paläoökologie, Institut für Naturwissenschaftliche Archäologie, Universität Tübingen, Germany

	<b>Industrial 2D Inspection</b>		
08:30	<b>Digital 2D X-ray inspection of aviation components using GE's DXR digital detector arrays</b>	Joe Portaz, Manufacturing & Quality Technology Department, GE Aviation, Cincinnati, Ohio, USA	<b>Advanced 3D CT / German (tips, tricks &amp; tools)</b>
09:00	<b>2D X-Ray Inspection for Advanced Microelectronic Packaging</b>	Karl-Friedrich Becker, Fraunhofer IZM, System Integration and Interconnection Technologies, Berlin, Germany	<b>Automated 3D CT with phoenix datos x 2.0 / German</b>
	<b>2D and 3D Casting Inspection</b>		
09:30	<b>Casting Production Process Control at Volkswagen using X-ray Computed Tomography (CT)</b>	Dr. Ferdinand Hansen; Franz Friedrich Butz; Frank Jeltsch, Volkswagen Foundry, Hannover, Germany	<b>Advanced 2D inspection / English (tips, tricks &amp; tools)</b>
10:00	<b>Optimization of Porosity Analyses for extended Quality Assessment of Al-Castings</b>	Jördis Rosc, Daniel Habe, Prof. Dr. Peter Schumacher, Austrian Foundry Institute (ÖGI), Leoben, Austria	
10:30-11:00	<b>Coffee break</b>		<b>Exhibition of the Fraunhofer X-ray reflow chamber</b>
	<b>3D Composite Applications</b>		
11:00	<b>CT analysis of new aerospace composite materials</b>	Thomas Ullmann, German Aerospace Center DLR Stuttgart, Germany	<b>Automated 2D inspection with phoenix x act / English</b>
11:30	<b>High resolution computer tomography for the damage detection on lightweight structures made of heterogeneous materials</b>	Prof. Dr. W. Hufenbach; Prof Dr. H.-J. Ullrich; Dr. N. Modler; M. Danczak, Technische Universität Dresden, Institut für Leichtbau und Kunststofftechnik Dresden, Germany	
12:00	<b>Quantitative geometrical characterization of composites: Global and local evaluation of <math>\mu</math>CT reconstructions</b>	Oliver Wirjadi, Fraunhofer-Institut fuer Techno- und Wirtschaftsmathematik (ITWM), Kaiserslautern, Germany	
12:30-14:00	<b>Lunch in Estrel Atrium Restaurant</b>		
	<b>3D Metrology</b>		
14:00	<b>Metrology from the Inside out: Production CT Metrology Applications and the Question of Measurement Accuracy</b>	Jonathan J. O'Hare, Hexagon Metrology Inc., North Kingstown, RI, USA	<b>Advanced 2D inspection / German (tips, tricks &amp; tools)</b>
14:30	<b>Efficient Moulding Tool Error Correction by CT Method</b>	Steffen Hachtel, F & G Hachtel GmbH, Aalen, Germany	
15:00-15:30	<b>Coffee break</b>		
	<b>Oil &amp; Gas Applications: Geology and Pipes</b>		
15:30	<b>Visualization, Quantification and Simulation of Material Properties in Porous Samples with Avizo 7</b>	Pascal Doux, VSG - Visualization Sciences Group, Bordeaux, France	<b>Automated 2D inspection with phoenix x act / German</b>
16:00	<b>Field Radiography Utilizing DXR Digital Detector Arrays: Improving Safety and Speed</b>	Shana Telesz, Global Product Manager Radiography, GE Measurement & Control Solutions, Lewistown, PA, USA	
16:30	<b>Closing remarks</b>	Dr. Holger Roth, GE Measurement & Control Solutions, Stuttgart, Germany	
	<b>Evening Program</b>		
17:45	<b>Tour by Bus along some Berlin Highlights</b>		
18:30	<b>German Museum of Technology, appetiser</b>		
19:00	<b>Guided tour Aerospace, Marine, Communications Technology (2 of 3 exhibition segments)</b>		
20:00	<b>Barbecue at the "Berlin Airlift Raisin Bomber Terrace"</b>		

Thursday, September 1			Tutorial
	<b>High-resolution CT Applications</b>		
08:00	<b>CT analysis of Lithium ion battery components and materials: Limits, challenges and perspectives</b>	Timo Bernthaler, Materials Research Institute, Aalen University, Aalen, Germany	<b>Additional Tutorial as required</b>
08:30	<b>3D characterization of filled polymers and heterogeneous metals using high resolution CT</b>	Dietmar Salaberger, Upper Austria University of Applied Sciences, School of Engineering/ Environmental Sciences, Wels, Austria	
09:00	<b>Use of the X-ray microtomography in mineralogy, biology and material research</b>	Dr. Miroslav Hain, Institute of Measurement Science, Slovak Academy of Sciences, Bratislava, Slovak Republic	
09:30	<b>Virtual enrolling of an antique mandaic lead roll</b>	Christof Reinhart, Volume Graphics, Heidelberg, Germany	
10:00-10:30	<b>Coffee break</b>		<b>Exhibition of the original mandaic lead roll</b>
10:30	<b>A Quick Overview of Application of Lab-scale High Resolution CT in Material Science and Engineering</b>	Dr. Xiaomin Wu, Materials innovation institute (M2i), Faculty of Aerospace Engineering, TUDelft, the Netherlands	
	<b>3D industrial quality analysis</b>		
11:00	<b>CT applications in a material analysis and quality assurance laboratory</b>	Roland Vogt, Vohtec Rissprüfung GmbH, Aalen, Germany	<b>Additional Tutorial as required</b>
11:30	<b>Time efficient 3D quality assurance at automotive components</b>	Jangkyu Ahn, Materials Technology & Analysis Team, Hyundai Kia Motors, Gyeonggi-Do, Korea	
12:00	<b>Fast 3D CT inspection for automatic very accurate turbine blade wall thickness measurements</b>	Joe Portaz, Manufacturing & Quality Technology Department, GE Aviation, Cincinnati, Ohio, USA	
12:30	<b>A new concept for high-speed inline CT for mass production processes</b>	Dr. Oliver Brunke, GE Measurement & Control Solutions, Wunstorf, Germany	
13:00	<b>Closing Remarks</b>	Hans-Uwe Matzen, GE Measurement & Control Solutions, Ahrensburg, Germany	