## WEDNESDAY, 9 APRIL 2014

Session 1	Trends in Microelectronic 3D Integration, SiP, WLP and Resulting Demands on Material Diagnostics and Quality Assurance
11:00	Welcome
11:10	System Integration – Packaging Makes the Difference Klaus Pressel, Infineon Technologies AG, DE
11:50	Advanced Packaging Failure Analysis – A Foundry Perspective Moritz Andreas Meyer, GLOBAL FOUNDRIES Inc., DE
12:15	<b>3D Integrated Sensors – Chances for European Manufacturers</b> Franz Schrank, ams AG, AT
12:40	Lunch Break / Industrial Exhibition and Networking Opportunity
Session 2	Material Diagnostics and Failure Analysis Examples for 3D Integrated Technologies
14:00	Reliability Risks in 3D Integration Technologies and Related FA Challenges Ingrid de Wolf, Interuniversity Microelectronics Centre IMEC, FR
	Challenges and Failure Risks in High Density Metal-to-Metal

15:05	Wafer Bonding for 3D and CMOS Applications: Challenges in Process Qualification and Reliability Testing Viorel Dragoi, EV Group, AT
15:30	Coffee Break / Industrial Exhibition and Networking Opportunity
16:15	3D Defect Localization Techniques from SiP to IC: Status and Challenges Philippe Perdu, Centre National d'Etudes Spatiales CNES, FR
16:40	Advanced Techniques for Physical Failure Analysis of TSV Interconnects Frank Altmann, Fraunhofer IWM/CAM, DE
17:05	Wrap up Day One
17:15	Drinks Reception / Industrial Exhibition and Networking Opportunity
19:00	Networking Dinner at Restaurant »Zum Mohr« Dinner Lecture: UNESCO World Heritage I Nebra Sky Disc – The cultural background Dr. Bernd Zich, State Museum for Prehistory, Halle (Saale)

## THURSDAY, 10 APRIL 2014

Session 3	New Equipment Solutions for Diagnostics and Quality Control
08:30	Welcome
08:40	Addressing Fault Isolation Challenges Using Magnetic Field Imaging: Novel 3D and SDR Techniques  Antonio Orozco, NEOCERA LLC., USA
09:05	Non Destructive Fault Localization on Complex Packages Using EOTPR Technique  Antoine Reverdy, Sector Technologies / Teraview Ltd., FR
09:30	<b>4D X-ray Microscopy (XRM), In Situ Imaging of Practical Volume Samples</b> Pete Lander, Zeiss X-ray Microscopy Group, UK
09:55	High Resolution Scanning Acoustic Microscopy for Inspection and Failure Analysis of 3D System Integration Technologies Peter Czurratis, PVA Tepla Analytical Systems GmbH, DE
10:20	Coffee Break / Industrial Exhibition and Networking Opportunity
11:00	Different Analytical Work Flows for Efficient Failure Analysis of 3D-Integrated and Packaged Devices Laurens T. Kwakman, FEI Company, USA

11:25	Optimal Strategies for Fast and Precise FIB Cross Sections of 3D Integrated Device Structures Tomáš Hrnčiř, TESCAN Orsay Holding, CZ
11:50	Novel Laser Tool for High-Throughput Microdiagnostics Sample Preparation Uwe Wagner, 3D-Micromac AG, DE
12:15	Lunch / Industrial Exhibition and Networking Opportunity
Session 4	Innovative Methods for Material Diagnostics, Failure Analysis and Reliability Testing
	Optical Inspection for 3D-WLP Processing
13:00	Wolfram Steller, Fraunhofer IZM-ASSID, DE
13:00	
	Wolfram Steller, Fraunhofer IZM-ASSID, DE  Sub Micrometer Imaging of Defects in Interconnections by X-Ray Tomography in a SEM

## PROGRAM

14:40	X-Ray CT for 3D SiPs - Actual Benefit and Future Requirements Sabine Weiss, Infineon Technologies AG, DE
15:00	Coffee Break / Industrial Exhibition and Networking Opportunity
15:30	Lab Tours and Tool Demos
17:00	End of Workshop