3 PROGRAM

WEDNESDAY, 10TH APRIL 2019

SESSION A: INTRODUCTION

09:30	Welcome Matthias Petzold, Fraunhofer IMWS (DE)
09:50	Keynote 1: Advanced 2D & 3D Packaging Architectures Deepak Goyal, Intel Corporation (US)
10:30	Keynote 2: TSV and FOWLP Reliability and FA Challenges Darvin Edwards, Edwards Enterprise Consulting, LLC (US)
11:10	Lunch Break / Exhibition Opening
	SESSION B: 3D PACKAGING FAILURE ANALYSIS
13:10	Challenges of Advanced Packaging Failure Analysis Bernice Zee, AMD (SG)
13:30	Arbitrary Waveform Stimulation and TRTR Analysis for Advanced 3D LIT Inspection Sebastian Brand, Fraunhofer IMWS (DE)
13:50	Laser Processing of Semiconductor Materials for Failure Analysis Boris Rottwinkel, 3D Micromac (DE)
14:10	Voids in CuSn 3D/Wafer Bonding Glenn Ross, Aalto University (FI)
14:30	Micro-Transfer-Printing – Heterogeneous Integration and Characterization of Failure Modes Uwe Krieger, X-FAB MEMS Foundry GmbH (DE)
14:50	Low Temperature Microwave Induced Plasma Etching for Package Decapsulation Michael Obein, Digit Concept (FR)

15:10 Coffee Break / Exhibition

WEDNESDAY, 10TH APRIL 2019

SESSION C: ACOUSTIC DEFECT DETECTION AND MICRO-MECHANICAL CHARACTERIZATION METHODS

15:50	GHz-SAM Analysis Approach for Bondpad Cratering Stefan Oberhoff, Robert Bosch GmbH (DE)
16:10	Parametric Signal Analysis of High Resolution SAM Doy-Long Lê, Infineon Technologies (DE)
16:30	Micro-Transfer-Printing and its Process Characterization by FEA & Micromechanical Testing Falk Naumann, Fraunhofer IMWS (DE)
16:50	Characterization of Intermetallic Phases using High Speed Nano-Indentation Stefan Späth, Infineon Technologies (DE)
17:10	Strain Characterization of Transistor Channel in a 22nm Fully Depleted SOI Technology Dirk Utess, Globalfoundries (DE)
17:30	Drinks Reception / Exhibition

20:00 Networking Dinner

THURSDAY, 11TH APRIL 2019

SESSION D: FAULT ISOLATION

08:30	Keynote 3: Neuromorphic Computing as Driver of the Diversification of the Embedded Non-Volatile Memory Landscape Sven Beyer, Globalfoundries (DE)
09:10	Automated Multi-level Circuit Net Tracing for Hotspot Analysis based on Layout Manipulation Szu Huat Goh, Globalfoundries (SG))
09:30	Use of Analog Simulation in Failure Analysis: Application to Emission Microscopy and Laser Voltage Probing Techniques Luc Saury, ST-Microelectronics (FR)
09:50	Understanding Crosstalk during Laser Probing at Spatial Resolution Compromised Technology Nodes Venkat-Krishnan Ravikumar, Advanced Micro Devices Inc. (SG)
10:10	High Resolution Resistance Mapping with in-situ EBAC Nanoprobing Grigore Moldovan, point electronic GmbH (DE)
10:30	Two Analysis Methods for Fault Localization: SOBIRCH and OPTIM Yoshihiro Ito, Hamamatsu Photonics (JP)

10:50 Coffee Break / Exhibition

THURSDAY, 11[™] April 2019

SESSION E: PHYSICAL CHARACTERIZATION AND FAILURE ANALYSIS WORKSFLOWS

11:30	Quantitative Dopant Characterization on Si and its Potential for Wide-Bandgap Semiconductors Soeren Hommel, Infineon Technologies (DE)
11:50	Novel Non-destructive X-ray Characterization Methods for Sub- angstrom Dopant and Thin Film Thickness Measurements and for Chemical State Analysis of Materials Sylvia Lewis,Sigray Inc. (US)
12:10	High Speed Thermal Characterization of GaN Transistors Using State of the Art InSb Detector and Time Equivalent Sampling Approach Brian Lai, Sector Technologies (FR)
12:30	3D X-ray Microscopy for High-resolution Measurements in Semiconductor Package Development Juan Atkinson Mora, Carl Zeiss SMT GmbH (DE)
12:50	Advanced 3D Imaging & Analysis for Function-Led Design of Porous Materials Roland Brunner , Materials Center Leoben (AT)
13:10	Standardized and Automated Tracking of Equipment Utilization Stefan Döring, Infineon Technologies (DE)

- 13:30 Lunch Break / Exhibition
- 14:00 Lab Tours