

### apc|m europe

AGENDA-Web www.apcm-europe.eu/m

### Sessions on Tuesday

08:00	Registration starts			
09:00 - 11:45	<b>Tutorial</b> Alan Weber   Cimetrix by PDF Solutions	MOVIE THEATER 7		
11:43 12:30 - 13:55	MOVIE THEATER 8 Conference Opening Session Session Chairs: Martin Schellenberger   Jochen Kinauer			
12:30	R1 <b>Opening Remarks</b>	Martin Schellenberger   Fraunhofer IISB Jochen Kinauer   camLine GmbH		
12:40	K1 Keynote:			
13:10	Invited Talk: MaiMa autofrei - A digital 11 quality gate for tool requalification after maintenance employing MaiMa and Space	Yvonne Bergmann   Robert Bosch GmbH		
13:55	Short break to change rooms			
14:00 -	MOVIE THEATER 8 Session 1 - Part 1 Session 1 - Part 1 Session 1 - Part 1	MOVIE THEATER 7 Session 3 - Part 1  SESSION SPONSOR:  INFICON		
15:00	Session Chair: Bert Müller	Session Chair: Thomas Müller		
14:00	1.1 ICP-etching of GaN HFET structures: real time statistical process control of nm-thick GaN layers by means of end point detection Anthony Martinez   LayTec AG	3.1 Industry 4.0 boosts predictive maintenance for semiconductor testers Oleg Fotteler   SPEA GmbH		
14:30	1.2 Enabling Higher Resolution Measurement to Support Zone Control John Mc Manus   Nova Ltd	3.2 Models for Gas Flow Reduction Michael Klick   Plasmetrex GmbH		
15:00	Coffee Break	CINEMAXX FOYER		
15:30 -	MOVIE THEATER 8 Session 1 - Part 2  Applied SmartFactory  Session 2 - Part 2	MOVIE THEATER 7 Session 2 - Part 1  PEERGROUP		
16:30	Session Chair: Bert Müller	Session Chair: Thomas Müller		
15:30	1.3 "antiPilo Al": First-Time-Right Lithography in a High-Mix, Low-Volume FAB using a Machine Learning boosted R2R controller Martin Schwarz   X-FAB Dresden	2.1 Sensor Matching Application Concept Using Cloud Storage, Cloud Analytics and Computing Services Frank Wagenbreth   GlobalFoundries		
16:00	1.4 A Digital Twin of a real fab – how to create it? Torsten Thieme   Deaxo GmbH	2.2 Harnessing the Power of Event Sequence Analysis for Semiconductor Smart Manufacturing Alan Weber   Cimetrix by PDF Solutions		
16:30	<b>Sponsor Talks</b> Session Chair: Martin Schellenberger	MOVIE THEATER 8		
17:00	<b>Poster &amp; Exhibitor Presentation</b> Session Chair: Martin Schellenberger	MOVIE THEATER 8		
18:00	Poster Reception	CINEMAXX FOYER - LEVEL 2		

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### Sessions on Wednesday - morning

08:00	Registration starts					
09:00 - 10:30	MOVIE THEATER 8 Opening & Invited Talk Session Chairs: Martin Schellenberger   Jochen Kinauer					
09:00	R2 <b>Opening Remarks</b>		Martin Schellenberger   Fraunhofer IISB Jochen Kinauer   camLine GmbH			
09:10	Invited Talk: Novel approach to master the challenges of run-to-run control in high-mix low-volume production – Part 3		Ulf Seidel   Infineon Technologies Dresden			
10:00	Coffee Break		CINEMAXX FOYER			
10:30 - 12:30	MOVIE THEATER 8 Session 2 - Part 2 Session Chair: Christian Knöll	SESSION SPONSOR:  PEERGROUP	Sessi	IE THEATER 7 ion 3 - Part 2 on Chair: Ulf Seidel	SESSION SPONSOR:  INFICON	
10:30	2.3 Machine-Learning-based Classification of Via Defects in SEM-Images Abdelmalek Cherchari   Fraunhofer Institute of Electronic Nano Systems ENAS, Technische Universität Chemnitz		3.3	3.3 Unit process & equipment productivity shock sentinel on evg wtw bonding system robot handling Marco Cartotti   STMicroelectronics & Daniele Lavalle   Technofitting		
11:00	2.4 Unpacking Wafer Analysis Complexity: Using Siamese Networks for a Novel Wafer Map Fingerprint Comparability Approach Christian Weber   University of Siegen		3.4	New generation of equipment/host communication as an enabler for data platforms, Al and digital twin Marco Grafe   Carl Zeiss Digital Innovation		
11:30	2.5 <b>R&amp;D³: a modern data stack for imec</b> researchers Wim Vancuyck   Imec		3.5	3.5 Digitalisation & Al for Industry 5.0 Applications to Make Semiconductor Manufacturing Sustainable Germar Schneider   Infineon Technologies Dresden		
12:00	2.6 Quantum Computing in Semiconductor Manufacturing – Potentials and Outlook Christoph Eichhammer   Fraunhofer Institute for Integrated Systems and Device Technology (IISB)		3.6 From dispatching to autonomous scheduling: a case study at a real wafer fab Semya Elaoud   Flexciton Ltd.			
12:30	LUNCH	SPONSORED by:	CINE	MAXX FOYER		









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### Sessions on Wednesday - afternoon

13:30	Young Talent Session MOVIE THEATER 8					
-	Session Chair: Martin Schellenberger					
15:30						
13:30	T1 In-Wafer Etch Process Control Based on real-time PI-VM under MFC aging scenario in Ar/SF6/O2 VHF-CCP Ji-Won Kwon   Seoul National University					
13:50	T2 Machine Learning Prediction Models for Generic Run-to-Run Control in High-Mix Semiconductor Industry Lucile Terras   EMSE					
14:10	T3 <b>CMP Process Modelling using Machine Learning Techniques</b> Hossam Elwan   Vishay Siliconix Itzehoe GmbH					
14:30	T4 Expertise-based optimization of yield prediction on logistic delivery grids Stefan Stroka   ams OSRAM Group & LMU Munich					
14:50	T5 <b>Optimizing Process Capability and Cycle Time through Virtual Metrology</b> Leonard Yeo   Micron Technology					
15:10	Coffee Break CINEMAXX FOYER					
15:45 -	MOVIE THEATER 8 SESSION 2 - PART 3 SESSION SPONSOR:  OF PEERGROUP SESSION 3 - Part 3 SESSION SPONSOR: SESSION 3 - Part 3 SESSION SPONSOR: SESS					
17:15	Session Chair: Gerd Fischer Session Chair: Robert McCafferty					
15:45	2.7 FDC System Integration and Application for Opto Semiconductor Epitaxy Tools Thomas Bauer   ams-OSRAM Group  3.7 A Simulation and Evaluation Platform the Training of a Reinforcement Lear Enabled Dispatch Agent to Reduce For Cycle Time Peter Lendermann   D-SIMLAB Technology Patrick Stöckermann   Infineon Technology Dresden					
16:15	2.8 Combining Physical and Virtual Metrology for Adaptive Process Control and Stocker management in a segregated Christian Hörr   ZEISS Digital Innovation high-automation semiconductor font-end fa Holger Brandl   SYSTEMA GmbH					
16:45	2.9 Yield management Equipment Performance Optimization for Yield improvement Dmitrii Fomin & Massimo Orazio Spata (by remote)   STMicroelectronics  STMicroelectronics  Development of a Concept for a Dynamic Dispatching Method Based on a Data-Driven Classification of Manufacturing Scenarios: Start at an Academic Level Rocky Telatko   University of Applied Sciences Dresden					
17:15	Break / End of Conference Day					
18:00						
- 21:30	Bus Transfer / Conference Dinner					
21.50						









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### Sessions on Thursday

08:30	Registration		•••••		
09:00 - 10:30	MOVIE THEATER 8 Opening Session Session Chairs: Martin Schellenberge	er   Jochen Kinauer			
09:00	R3 <b>Opening Remarks</b>		Martin Schellenberger   Jochen Kinauer		
09:10	K2 Keynote: Technologies in Generative AI and the Future of Coding		Frank Schönefeld   Telekom MMS		
09:40	I3 Invited Talk: Rethinking Education and Training for nowadays semiconductor manufacturing by adapted Bauhaus Education Philosophy		Sabrina Anger   Fraunhofer IISB		
10:30	Coffee Break		CINEMAXX FOYER		
11:00 - 12:00	MOVIE THEATER 8 Session 2 - Part 4 Session Chair: Alan Weber	SESSION SPONSOR:  PEERGROUP	Sessi	IE THEATER 7 ion 3 - Part 4 on Chair: Gerd Fischer	SESSION SPONSOR:  INFICON
11:00	2.10 Smart device on facilities to unscheduled facilities inter Giuseppe Fazio   STMicroelecto	ruption	3.10 Process and equipment performance optimization Pietro Petruzza   STMicroelectronics		
11:30	2.11 Getting and staying ahead of the bad guys, an industry plan for cybersecurity Doug Suerich   PEER Group		3.11 Al-Enhanced Digital Twin Architecture and local dispatching methods for yield improvement in a microelectronics facility Roberto Rosario Corsini & Marco Stefano Scroppo   STMicroelectronics		
12:00	LUNCH	SPONSORED by:	CINE	MAXX FOYER	
13:00 - 14:30	MOVIE THEATER 8 Session 2 - Part 5 Session Chair: Alan Weber	SESSION SPONSOR:  PEERGROUP	Sessi	IE THEATER 7 ion 3 – Part 5	SESSION SPONSOR:  INFICON
13:00	Session Chair: Alan Weber  2.12 Machine Learning and Explainable Al to Manage Process Variabilities and Resource Efficiencies in Semiconductor Manufacturing Venugopal Ramadasu   Vienna University of Economics and Business  Session Chair: Gerd Fischer  3.12 Processing time and machine availa prediction using neural networks Jasper van Heugten   minds.ai		tworks		
13:30	2.13 Optimizing Yield and Process Efficiency in Semiconductor Fabs through Al Monica McDonnell   teradata		Integrating Transport Loads in Production 3.13 Planning: A Simulation-Driven Approach Vincent Betker   TU Dresden		
14:00	2.14 Stratified Boosting with Adaptive Online Learning for Virtual Metrology at a Massive Scale Brendon Choe   Gauss Labs Inc.		3.14 Al powered solutions addressing the semiconductor labor shortage John Behnke   Inficon		
14:30	AWARD CEREMONY & CLOSING		MOVIE THEATRE 8		
15:00	END OF CONFERENCE				
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