

Day 1 - Monday 15th April 2024

18:30 Pre-conference networking drinks reception

Day 2 - Tuesday 16th April 2024

08:00 Registration and welcome refreshments

08:50 Housekeeping by Chris Meadows and Tim Bettles - Conference Chairs

Ensuring SiC's phenomenal success

09:00 Silicon Carbide: a game changer in power electronics

Presented by Mario Saggio - STMicroelectronics

09:15 Supporting SiC Success Stories Through Technical Innovation

Presented by David Liese - htt Group, and Michael Köppl - htt Group

09:30 Next-Generation Factory Inspection: Improving Performance by Synthesizing Intelligent Microscopy

Presented by Marius Fischer - Nanotronics

09:45 Challenges in HVM Amidst Evolving Device Architectures and Requirements for Compound Semiconductor based Power Devices

Presented by Nick Keller - Onto Innovation

10:00 Sharpening SiC Wafer specs and Frontend Performance by Crystal Orientation Metrology

Presented by Lars Grieger - Malvern Panalytical

10:15 Sample preparation and TEM imaging techniques for advanced power device analysis

Presented by Antonio Mani - Thermo Fisher Scientific

10:30 Morning Break

11:10 Giving SiC a superjunction

Presented by Reza Ghandi - GE Aerospace

11:25 The Unspoken Impacts of SiC Power Packaging

Presented by Kevin Speer - Microchip

11:40 Challenges and solutions in new generation SiC metrology

Presented by Dr. Eszter Najbauer - Semilab

11:55 Accelerating semiconductor technologies for the green revolution

Presented by Shiva Rai - Applied Materials

12:10 A Hybrid Defect Inspection System for SiC substrate and Epi applications

Presented by Aris Ma - AK Optics Technology Co. Ltd

12:25 Capital Efficient Systems for SiC Manufacturing Expansion and R&D

Presented by Brian Stickney - C & D Semiconductor

12:40 Lunch Break

13:55 Enabling Low Cost SiC Boule Fabrication – The BoulePro 200AX is the New Process Of Record

Presented by Jeff Gum - Usach

14:10 Industry ready detection of TSDs and BPDs in SiC wafers

Presented by Dr.-Ing. Christian Reimann - Rigaku

14:25 Cutting-edge SiC Manufacturing: Beyond Chemical-Mechanical Constraints

Presented by Philipp Böttger - scia Systems GmbH

14:40 Modernizing Industrial Low Voltage Motor Drives with Silicon Carbide

Presented by Pranjal Srivastava - Wolfspeed

14:55 PulseForge and Teikoku Taping Systems Announce Novel Fully Automated Photonic Debonding Platform

Presented by Vahid Akhavan - PulseForge (in association with Teikoku Taping Systems Inc)

15:10 Coating at its best - Spraying graphite parts with tantalum carbide cuts the cost of producing SiC crystals

Presented by Dr.-Ing. Matthias Trempa - Fraunhofer IISB

15:25 Powering the SiC Revolution with Vertical Integration

Presented by Ajay Poonjal Pai - Sanan

15:40 Afternoon Break

Taking power from the photon

16:20 Record-breaking solar cells

Presented by Dr. Oliver Höhn - Fraunhofer ISE

16:35 Integrated storage unlocks CPV's full potential

Presented by Kira Rundel - RayGen

16:50 Germanium Substrates for Photonics and PV: Ensuring Supply Security, Advancing Recycling and Enabling CMOS integration

Presented by Ivan Zyulkov - Umicore

17:05 Lattice-matched III-V solar cells. Progress and application opportunities

Presented by Prof. Mircea Guina - Tampere University

New frontiers for the LED

- 17:20** **Development of far-UVC LEDs for sensing and skin tolerant antisepsis**
Presented by Sven Einfeldt - FBH Berlin
- 17:35** **Heterogenous Integration of Compound Semiconductors by W2W and D2W Bonding**
Presented by Dr. Bernd Dielacher - EV Group
- 17:50** **Making monolithic RGB displays with InGaN**
Presented by WonTaeg Lim - Soft-Epi
- 18:05** **Closing Remarks**
- 18:10** **Networking Drinks / Dinner Reception**

Day 3 - Wednesday 17th April 2024

08:00 Registration and welcome refreshments

08:50 Housekeeping by Chris Meadows and Tim Bettles - Conference Chairs

Accelerating the growth of GaN

Sponsored by Precision Fabricators

09:00 Where will GaN Power Semiconductors find their greatest success in the 2020s?

Presented by Richard Eden - Omdia

09:15 The strengths of IC enhancement-mode GaN

Presented by Andrea Bricconi - Cambridge GaN Devices

09:30 Presentation Title to be Confirmed

09:45 Harnessing the Power of RF GaN-on-Si Technology for Next Generation Connectivity

Presented by Nadine Collaert - imec

10:00 Accelerating the Growth of GaN-based Power Electronics Via Adoption of 300mm Technology

Presented by Rudy Parekh - Veeco

10:15 Next Level Epitaxy: Revolutionizing Mass Production of Wide Bandgap Semiconductors

Presented by Dr. Yilmaz Dikme

10:30 Morning Break

11:10 Considerations for Tool-To-Tool Matching Across a Fleet of Metrology Tools

Presented by Tamzin Lafford - Bruker UK

11:25 Connected metrology – Full 2D characterization of HEMT device structure epi-wafers

Presented by Johannes Zettler - LayTec AG

11:40 Emerging Growth Opportunities for MBE in GaN

Presented by Brian Miller - Riber

11:55 Commercialization of buffer-free GaN on SiC materials for defense, space, telecom markets and beyond

Presented by Jr-Tai Chen - SweGaN

12:10 Numerical design propels RF and power GaN technology

Presented by Ahmed Nejim - Silvaco

12:25 Solving the EMC and thermal issues of driving GaN at high speed

Presented by Rupert Baines - QPT

12:40 GaN: Delivering on the Net-Zero Economics of an AI-Enabled Future

Presented by Peter Rabbeni - IQE

12:55 Lunch Break

Expanding horizons for surface emitters

14:10 VCSELs: Driving Innovations in 3D Sensing and Data Communication

Presented by Ali Jaffal - Yole Group

14:25 Vertilas InP VCSELs to address fast growing and novel applications at and beyond 1.3 μm

Presented by Christian Neumeyr - Vertilas

14:40 Expanding the scope of VCSELs through wavelength extension, added functionality and high power density

Presented by Julien Boucart - Coherent

14:55 Speeding VCSEL feedback

Presented by Jack Baker - ICS

15:10 Building, powerful, blue-surface-emitting SLEDs

Presented by Juan Morales - iSLight

15:25 Novel high-power VCSEL laser modules for Battery Manufacturing

Presented by Roman Koerner - TRUMPF

15:40 Placing photonic crystal nano-lasers to silicon

Presented by Mingchu Tang - University College London

15:55 Closing Remarks



NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.