

EU - India





Joint Researchers Workshop on Semiconductors

➤ 9th October 2024

PROGRAMME

1st DAY

Morning

Welcome Coffee and Pastries

OPENING AND POLICY SESSION (Chair: Elles Van de Ven)

08h45

- Welcome note – Mr. Sagar Sharma, CoS, ISM, In-person

08h55

Welcome Note – Pierre Chastanet - Head of the Unit of C.3 Microelectronics and Photonics - European Commission

09h05 – 09h35

Industry Participants introduction/ presentation - India – Mr. Rajesh Nair, Tata Electronics;
Mr. Raghu Panicker, Kaynes

Industry Participants introduction/ presentation – EU - Christofer Frieling – SEMI Europe

SESSION 1 — Heterogeneous Integration & Packaging (Chair: Francis Balestra)

09h35

- High-speed interconnects for advanced computing and communication: Evolution, Challenges, and what lies ahead? - Prof. Rohit Y Sharma - IIT Ropar

10h00

How 3D integration can help the emergence of Power efficient innovative architectures? - Olivier Faynot, CEA-Leti

10h25

- **Heterogenous integration -Enabling systems beyond Moore's Law** - Andreas Middendorf - Fraunhofer IZM

Coffee Break 10h50

SESSION 2 – More than Moore Functionalities (Chair: Francis Balestra)

11h20

- Silicon Photonics Technology at CoE-CPPICS, IIT Madras - Prof. Bijoy Krishna Das, IIT Madras

Semi-conductor Laboratory: Capabilities Overview - Dr. Kamaljeet Singh, DG, SCL

11h45

- GaN Technology for Power Electronics Applications – Urmimala Chatterjee, imec

12h10 12h35

- Silicon Photonics: review of the main EU and international activities and technologies - Roel Baets, Ugent

Lunch Break 13h00

Afternoon

SESSION 3 – Sustainable Manufacturing and Materials (Chair: Giorgos Fagas)

14h20

- Bio-based materials and processes for pcbs: an example of pathway for sustainable micronanoelectronics? – Pascal Xavier, Université Grenoble Alpes

14h55

- Advanced Materials for next-generation Semiconductor technology - Rajeev Ahuja, IIT Ropar

15h20

- Towards Sustainable electronic – Olivier Faynot, CEA-Leti

15h45

- **Sustainability in information and communication technologies** — Jean-Pierre Raskin, UCLouvain

Coffee Break 16h10

SESSION 4 – IC & System Design (Chair: Giorgos Fagas)

16h40

- IC and System Design - The quantum way – V.Kamakoti Veezhinathan, IIT Madras

17h05

- Al-enabled smart and secure electronic systems design and Indigenous Electronic Design Automation Tools for VIKSHIT BHARAT 2047 – Gaurav Trivedi, IIT Guwahati

17h30

 The Open-Source PULP Platform for tinyML Heterogeneous Hardware Acceleration – Francesco Conti, Unibo

17h55

Digital system design at IIT Bombay – Madhav P. Desai, IIT Bombay

FINAL SESSION

18h20

- Closing remarks - Elles Van de Ven, European Commission DG Connect

Cocktail Dinner 18h30

Scan the QR code to discover the detailed program:

