7th IEEE Electron Devices Technology and Manufacturing (EDTM) Conference 2023

Coex, Seoul, Korea
March 7th – 10th, 2023

Strengthen the global semiconductor research collaboration beyond the COVID-19 pandemic era.

The 7th IEEE Electron Devices Technology and Manufacturing Conference (**IEEE EDTM 2023**) will be held in Seoul, the capital and largest metropolis of Korea which is home to the headquarters of global-leading local companies. **IEEE EDTM 2023** is a full four-day conference to be held during March 7-10, 2023. **IEEE EDTM 2023** aims to be a premier global forum for researchers and engineers from around the world coming to share new discoveries and discuss about any device/manufacturing-related topics, including but not limited to, materials, processes, devices, packaging, modeling, reliability, manufacturing and yield, tools, testing, and any emerging device technologies, as well as workforce training.

K-Semiconductor and K-culture!

OH MY GIRL

Jerk Family

March. 9 (Thu.), 2023
Grand Inter Continental Seoul Parnas Hotel, 5F, Grand Ballroom

We invited special guests to our Banquet to promote Korea's excellent K-semiconductor and K-culture.

**Even if you register as a student without the banquet ticket, you can still come to see the performances.

ORGANIZED BY

IEEE · Electron Devices Society · SK hynix · KoNTRS Korea Nanotechnology Research Society

Introduce Our Plenary Speakers

Seon Yong Cha
SK Hynix
Journey of Memory Innovation in the AI Computing Era

Michael Lercel
ASML
Semiconductor Scaling for the Next Decade

Suman Datta
University of Notre Dame
A System Driven Approach to Semiconductor Innovation

Junichi Kitano
TEL
Semiconductor Industry Challenges for Next Decade and Beyond

Jong Myeong Lee
Samsung Electronics
Innovation of Process Technology for Future Semiconductor

Mukund Srinivasan
Applied Materials
Meeting Scaling Challenges through Materials Engineering

IEEE EDTM 2023's Topics

1. Materials
2. Process, Tools, Yield, and Manufacturing
3. Semiconductor Devices
4. Memory Technologies
5. Photonics, Imaging and Display
6. Power and Energy Devices
7. Modeling and Simulation
8. Reliability
9. Packaging and Heterogeneous Integration
10. Sensor, MEMS, Bio-Electronics
11. Flexible and Wearable Electronics
12. Nanotechnologies
13. Disruptive Technologies - IoT, AI/ML, Neuromorphic & Quantum Computing

Rump Session

- **Date & Time : March 8.(Wed.) / 19:30-21:00**
- **Venue : Coex #317, #318**

Get engaged in more discussion with **IEEE EDTM 2023**'s rump sessions!
We will have two topics each, and the discussion will be carried out freely with a panel of 5-6 people.
There will be in-depth discussions on semiconductors and networking among related industry workers and researchers.

Rump Session 1 (#317): Sustainability in Semiconductor Manufacturing
Rump Session 2 (#318): Global Semiconductor R&D Cooperation.
Is It Still Necessary or Possible to Continue in This Time of Supply Chain Crisis?

*This program is included in the Main Conference.

Tutorials & Short Courses

	Course Name	Speaker
T1	Technology for Advanced Semiconductor Manufacturing	Michael Lercel (ASML), Hyekeun Oh (Hanyang University) Geun Young Yeom (Sungkyunkwan University)
T2	New Computing Paradigm: Quantum Computing	Sophy Shin (IBM Quantum), Jae-Yoon Sim (POSTECH) Moonjoo Lee (POSTECH)
T3	Advanced Packaging Technology for Heterogeneous Integration	Sarah Eunkyung Kim (Seoul National University of Science and Technology) Ki-Ill Moon (SK Hynix), Youngsu Kwon (ETRI)
SC1	Advances in Manufacturing and Processing Technologies (in Korean)	Bongseok Kim (PeDiSem, Hanyang University), Inho Nam (PeDiSem, Hanyang University) Yunheub Song (PeDiSem, Hanyang University)
SC2	CMOS Image Sensor Technology	Kyungdo Kim (SK Hynix), Wonje Park (SK Hynix), Min H. Kim (KAIST)
SC3	Power and Energy Devices	Chang Soo Suh (Texas Instrument), Martin Kuball (University of Bristol) Jae-Hyun Ryou (University of Houston)

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