

register now!

poster deadline April 13

<https://birck.research.purdue.edu/event/birck-research-symposium/>

Birck Annual Research Symposium

April 27-28, 2026

register now!

poster deadline April 13

Prizes for
top 3 posters!



Monday, April 27: Birck Industry Day

Location: Burton Morgan Center for Entrepreneurship, Rm 121

8:30 AM	Registration / light breakfast
9:00 AM	Opening remarks - Daniel DeLaurentis , Executive Vice President of Research, Purdue Office of Research
9:10 AM	Charles Strehlow , Quantum Design-Oxford, "Laboratory Workflow with Quantum Design"
9:50 AM	Debby Lin , Principal Research Scientist, and Anjana Dissanayake , Research Scientist, MediaTek Technology USA, "Advancing Horizons: Semiconductor Innovation and Ecosystem Partnerships (MediaTek x Purdue)"
10:30 AM	Mo Shakouri , CEO, Microsanj, "Meeting Emerging Thermal Challenges of 3D Heterogeneously Integrated Circuit Packaging Techniques"
11:10 AM	Jaesik Lee , Vice President of Advanced Packaging, SK Hynix, "Challenges of High Bandwidth Memory (HBM) Packaging"
12:00 PM	Working lunch: Purdue's quantum and semiconductor workforce development programs
1:00 PM	Juergen Klier , Sr. Market Segment Manager Cryo/Vac, FormFactor, "Vacuum & Cryogenic Probing with FormFactor: Stable Contact. Clean Data. Faster Debug."
1:40 PM	Shalini Tripathi , Material Scientist, imec, "From Lab to Chip: The Impact of R&D on Semiconductor Innovation and Interface Analysis of Tantalum Seeded MoS2 for Advanced Transistor Applications"
2:20 PM	Coffee break
2:30 PM	Michael Alimov , Field Applications Engineer, Keysight, "Recognizing and Rectifying Parametric Measurement Artefacts"

Location: atrium of Birck Nanotechnology Center

3:10 PM	Poster session / vendor trade show / Digital Twins demos
5:15 PM	heavy hors d'oeuvres



PURDUE
UNIVERSITY

Birck Nanotechnology Center

Thanks to our sponsors



Tuesday, April 28: Birck Academia Day

Location: Hall for Discovery and Learning Research, Room 131

8:30 AM	Registration / light breakfast / trade show begins
9:00 AM	Opening remarks
9:10 AM	Xiulin Ruan , Professor of Mechanical Engineering, "Multiphysics simulations of nanoscale thermal transport in electronics"
9:50 AM	Ruichao (Alex) Ma , Assistant Professor of Physics and Astronomy, "Analog Quantum Simulation with Superconducting Circuits"
10:30 AM	Thomas Beechem , Associate Professor Of Mechanical Engineering, "Leveraging Light for Tomorrow's Electronics: Multi-Modal Spectroscopy for seeing stress and defects in devices and their packages"
11:10 AM	Alexandra Boltasseva , Ron and Doty Garvin Tonjes Distinguished Professor of Electrical and Computer Engineering, "Emerging Tailorable Materials for Photonic Applications"
12:00 PM	Trade show & Lunch talk: "Digital Twins for the Semiconductor Industry"
1:00 PM	Michael Manfra , Chief Quantum Officer, Purdue University; Director of Purdue Quantum Science and Engineering Institute, "Experimental Discovery of Anyonic Braiding Statistics"
1:40 PM	Liang Pan , Professor of Mechanical Engineering, "Design, Optimization and Experiments of Thermal Management Solution for 3D IC"
2:20 PM	Coffee break
2:30 PM	Can Wu , Birck Scholar of Excellence; Assistant Professor, Elmore Family School of Electrical and Computer Engineering, "Think Big! Emerging Large-area Electronics For Large-scale System Integration"
3:10 PM	Haitong Li , Assistant Professor, Elmore Family School of Electrical and Computer Engineering, "Heterogeneous Compute-in-Memory Fabrics for Efficient and Scalable Edge AI"
3:50 PM	Mark J. Kushner , George I. Haddad Professor of Electrical Engineering and Computer Science, University of Michigan



The 3 pillars of Birck's Mission:

- Educate** – lead the way in training tomorrow's semiconductor and quantum workforce.
- Innovate** – continue to be at the forefront of basic and applied research at the nanoscale.
- Collaborate** – expand partnerships with academia, industry, and the public sector.

Discovery Park
DISTRICT

Birck Annual Research Symposium - Locations

April 27-28, 2026

- 1** – April 27, until 3 PM
- 2** – April 27, after 3 PM
- 3** – April 28

Recommended pay parking for visitors:

- Daily Pay Lot
- Street parking

