

# Birck Seminar Series

## Sponsored by Kepler Computing

Please join us at Birck to hear the latest in nanoscience and nanotechnology research, given by our Purdue colleagues as well as worldwide leaders in the field.



**WHEN:** Wednesdays 2:00 – 3:00 pm  
(unless otherwise noted)  
**Come for coffee and snacks before seminar**

**WHERE:** BRK 1001 conference room  
Birck Nanotechnology Center,  
1205 Mitch Daniels Blvd.  
(also on MS Teams)

### Spring 2025 schedule

Jan. 15	<b>Francesca Iacopi</b> , imec/UT Sydney, “Advancing system-level miniaturization with graphene on cubic silicon carbide”
<b>TUES, Jan. 21</b>	<b>Scott Mao</b> , Materials Eng., “In-situ high resolution TEM for interface and device processing and lithium-ion battery characterization”
Jan. 29, <b>11 AM</b>	<b>David Warsinger</b> , ME, “ Membrane nanomaterials and nonconventional forces for water and air treatment”
Feb. 5	<b>Gopinath Sahu</b> , ME, “ Direct On-Chip Cooling of High-Power AI Chips Using Liquid Jet and Spray Technologies”
Feb. 12	<b>Sorin Matei</b> , Lamb School of Communication, “Quantum computing is a kaleidoscope: Extraordinary phenomena demand extraordinary explanations”
Feb. 26	<b>Rosa Diaz</b> , ECE, “ Atomic-Scale Characterization of Heterogeneous Interfaces: Quantifying Structure & Chemistry for Next-Gen Electronic Devices”
March 5	<b>Ron Reger</b> and <b>Neil Dilley</b> , Birck, “Update on Birck Modernization Project”
March 12	<b>Joerg Appenzeller</b> , ECE, “On the potential of two-dimensional semiconductors for future applications”
April 2	No seminar
April 9	<b>Yihang Zeng</b> , Physics, “ Strongly correlated and topological quantum phases in moiré TMD via exciton sensing”
April 16	<b>Shubhra Bansal</b> , ME/MSE, “Materials Challenges for Heterogeneous Integration and Advanced Packaging”
April 23	<b>Lauren Garten</b> , Georgia Tech
April 30	<b>Hadiseh Alaeian</b> , ECE, “New Frontiers in Nonlinear Quantum Optics: From Correlated to Non-Markovian Dynamics”