

# 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 2026 schedule

Jan. 21	<b>Yuheng Chen and Vaishnavi Iyer</b> , ECE, “Machine Learning and Quantum-Assisted Inverse Design for Next-Generation Photonics”
Jan. 28	<b>Alex Ruichao Ma</b> , Physics & Astronomy, “Exploring Synthetic Quantum Matter with Superconducting Circuits: How to control and probe quantum correlations using dissipation”
Feb. 4	<b>Libai Huang</b> , Chemistry, “Imaging Exciton Transport and Quantum Interactions with Ultrafast Microscopy”
Feb. 11	<b>David Cappelleri</b> , ME/BME, “Magnetic Microrobots for Biomedical Applications”
Feb. 18	<b>Krishna Jayant</b> , BME, “Dynamic Delays and Subspaces Sculpt Motor Information Flow: Insights from Multimodal Neurotechnologies”
Feb. 25	<b>Jingang Li</b> , ME/MSE, “Advancing Optical Manipulation and Measurement at the Nanoscale”
Tues., March 3	<b>Roland Kawakami</b> , Physics, OSU, “Investigating Orbitronics and Spin Dynamics with Magneto-Optics”
Tues., March 10	<b>Chen-Lung Hung</b> , Physics & Astronomy, “Building a novel quantum light-matter interface with cold atoms coupled to a nanophotonic circuit”
March 18	(Spring Break)
April 1	<b>Joseph Lukens</b> , ECE, “Somewhere over the quantum rainbow: the integrated future of frequency-bin quantum information processing”
April 8	<b>Dana Weinstein</b> , ECE
Tues., April 14	<b>Alejandro Strachan</b> , MSE, “Smart Science with AI: FAIR Data, Digital Twins, and Autonomous Agents”
April 22	<b>Matthew Rosenberger</b> , Aero/ME, Univ. Notre Dame, “Atomic Force Microscopy for Defect Characterization and Strain Control of Two-Dimensional Materials”