

INDUSTRIAL AFFILIATES SYMPOSIUM 2019

AGENDA

- 8:00 to 9:00** **Continental Breakfast and Registration** - Kemper Hall 1003 and 1007
- 9:10 to 9:30** **Chair's Welcome** – Kemper Hall 1003 and 1007
Department Chair and Professor, Saif Islam
- 9:30 to 10:15** **New Faculty Presentations** – Kemper Hall 1003 and 1007
Chair: Prof. Kent Wilken
Title: *“Quantum Nanophotonics for Advanced Information Processing”*
Assistant Professor Marina Radulaski
Title: *“Ultrafast Nonlinear Optics for Next Generation Spectroscopy”*
Assistant Professor William Putnam
Title: *“Adversarial Machine Learning”*
Associate Professor Lifeng Lai
- 10:15 to 10:30** **Coffee Break** – Kemper Hall Lobby
- 10:30 to 11:00** **Distinguished Alumni Award** – Kemper Hall Lobby
Chair: Prof. John Owens
Award Presented by Babak Taheri, ECE Board of Advisors Chair
- 11:00 to 11:50** **Keynote Address – Kemper Hall Lobby**
Title: *“VCSEL Array - Catalyzing 3D Sensing”*
Prof. Constance Chang-Hasnain, UC Berkeley
- 11:50 to 1:00** **Lunch** – Kemper Hall Courtyard
- 1:00 to 2:15** **Fast-Forward Presentations** – Kemper Hall 1127 and 1131
Chair: Assoc. Prof. Jane Gu
One-minute snapshots of student posters
- 2:15 to 2:30** **Coffee Break** – Kemper Lobby
- 2:20 to 3:40** **Speed Networking** – Kemper Hall 1127 and 1131
Chairs: Rebecca Snawder and Adil Abbuthalha
“Speed Dating” style meeting between students and affiliates
- 2:30 to 4:20** **Technical Sessions** - Kemper Hall 1003 and 1007
Chair: Prof. Rajeevan Amirtharajah

INDUSTRIAL AFFILIATES SYMPOSIUM 2019

AGENDA

Title: “*Making Single-Molecule Memristors*”

Presenter: Billie Li, Doctoral Student and Joshua Hihath, Faculty

Title: “*Non-Magnetic Non-reciprocal RF and Microwave Components*”

Presenter: Xiaoguang “Leo” Liu, Faculty

Title: “*Betavoltaic Energy Harvesting Sensors for Liver Cancer Radiation Therapy Dosimetry*”

Presenter: Heather Richardson, Doctoral Student

Title: “*Transabdominal Fetal Pulse Oximetry*”

Presenter: Soheil Ghiasi, Faculty and Daniel Fong, Doctoral Student

Title: “*Machine Learning Methods for Current Image Fraud Detection*”

Presenter: Robin Yancey, Doctoral Student

Title: “*Curriculum Development to Foster Hands-On Experiences and Project-Based Learning*”

Presenter: Hooman Rashtian, Faculty

3:30 to 5:30

Poster Session and Project Demo - Kemper Hall Lobby

Chair: Prof. Xiaoguang “Leo” Liu

Please rank the posters using the ballot in your folder.

Project Demo

Human-Robotic Hand Interface for Industrial Applications

Group Members: Ranil Ganlath, Brianna Phu, Braden Rhoads, Henry Nguyen

“The purpose of our design project is to develop an external robotic arm capable of emulating a user’s actions without the user and arm being connected physically.”

5:00 to 5:10

Best Poster Award - Kemper Hall Lobby

4:00 to 5:30

Reception - Kemper Hall Lobby