Workshop on Electronic/Photonics Materials and Devices

SEPTEMBER 25, 2023
MONDAY 9 AM - 4 PM

1003 KEMPER HALL
Lunch and refreshments will be served

UCDAVIS
MATERIALS SCIENCE AND ENGINEERING

UCDAVIS
COLLEGE OF ENGINEERING

Workshop on Electronic/Photonic Materials and Devices

9/25/2023, Kemper Hall 1003, UC Davis

Time	*Title*	*Speaker*
Applications of electronic/photonic materials		
8:40	*Refreshments*	All
9:00	Opening remark	**Seung Sae Hong** Materials Science & Engineering
9:05	Functional materials for sustainability	**Marina Leite** Materials Science & Engineering
9:30	Slow and trapped photons in semiconductors enabled by nanostructures for ultrafast communication, sensing, and imaging	**M. Saif Islam** Electrical & Computer Engineering
9:55	Photonics for energy and climate applications	**Jeremy Munday** Electrical & Computer Engineering
10:20	Nanoporous Gold: From an Ancient Material to Biomedical Devices	**Erkin Şeker** Electrical & Computer Engineering
10:45	Micro-patterning semiconducting polymers for optoelectronic devices for photonics, energy, and biomedicine	**Adam Moulé** Chemical Engineering
11:10	Personalized Digital Healthcare: Wearable Bio-electronics for Health Monitoring, Diagnostics, and Therapeutics	**Hyoyoung Jeong** Electrical & Computer Engineering
11:35	On the generation and detection of infrared waves	**J. Sebastian Gomez-Diaz** Electrical & Computer Engineering
12:00	*Lunch & Discussion*	All
Science of electronic/photonic materials		
13:00	Quantum nanophotonic hardware with integrated color centers	**Marina Radulaski** Electrical & Computer Engineering
13:25	Photocurrent microscopy in halide perovskites and topological materials	**Dong Yu** Physics
13:50	Novel methods to probe structure-property relationships at the atomic scale	**Amit Samanta** Lawrence Livermore National Laboratory
14:15	Combining Topology and Superconductivity: Can We Discover Unconventional Superconductors Methodically?	**Valentin Taufour** Physics
14:40	Adventures in k-space: using ARPES and other photoemission techniques to reveal electronic and chemical structure	**Inna M. Vishik** Physics
15:05	Harnessing Complex Oxides for Future Information Technology Devices	**Yayoi Takamura** Materials Science & Engineering
15:30	*Discussion with refreshments*	All