NNCI 2019 Etch Symposium

Novel Nanoscale Etching of Electronic, Photonic, and Quantum Materials

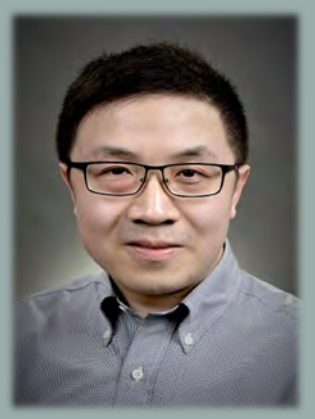
Harvard University, Geological Museum, Lecture Hall 100
8am – 5pm, Dec. 6, 2019

Invited Speakers

Prof. Federico Capasso
Harvard

Prof. Evelyn Hu
Harvard

Prof. Max Shulaker
MIT



Dr. Mian Zhang
CEO, Hyperlight, Co.

	8:00am – 8:20am	***Continental Breakfast***
	8:20am – 8:30am	***Welcome*** **Dr. William Wilson, Executive Director, Center for Nanoscale Systems, Harvard**
**	**8:30am – 9:15am**	***Next-Generations Electronics: Transforming Technologies from the "Lab" to the "Fab"*** **Prof. Max Shulaker, MIT**
**	**9:15am – 10:00am**	***Integrated Ultrahigh Performance Electro-Optic Circuits - Etching Enabled Photonics Breakthrough*** **Dr. Mian Zhang, CEO, HyperLight Co.**
	10:00am – 10:30am	***Break/Exhibition***
	10:30am – 10:55am	***Making High Aspect Ratio Wires with Greater Precision*** **Dr. Peter Starts, Harvard**
**	**10:55am – 11:40am**	***Flat Optics with Metasurfaces*** **Prof. Federico Capasso, Harvard**
	11:40am – 12:05pm	***Advanced Nanoscale Etching Solutions*** **Peter Wood, Director, US Operations, Samco, Inc.**
	12:05pm – 1:00pm	***Lunch (provided)***
**	**1:00pm – 1:45pm**	***What Will Quantum Bring?*** **Prof. Evelyn Hu, Harvard**
	1:45pm – 2:10pm	***Impact of Etching on Superconducting Q-bit Fabrication*** **Dr. Bethany Huffman, MIT-Lincoln Labs**
	2:10pm – 2:35pm	***Dry Etching for Diamond Applications*** **Colin Welch, Oxford Instruments America, Inc.**
	2:35pm – 3:05pm	***Break/Exhibition***
	3:05pm – 3:30pm	***Interfacing Silicon Vacancy Centers with Optomechanical Crystals in Diamond*** **Cleaven Cai, Harvard**
	3:30pm – 3:55pm	***AlN Piezo - MEMS Process: Impact of Crystal Quality on Plasma Etching*** **Dr. Ben Davaji, Cornell**
	3:55pm – 4:20pm	***Plasma Processes for Wide Bandgap Materials for Power and RF Applications*** **Dr. Steve Vargo, Senior Global Applications Manager, SPTS Tech., Inc., A KLA Company**
	4:20pm – 4:45pm	***Ion Beam Etching*** **Dr. David Lishan, Plasma-Therm LLC**
	4:45pm – 5:15pm	***Touring CNS Facilities***

Free public event, registration required:
https://projects.iq.harvard.edu/nnci
Contact: Ling Xie
lxie@cns.fas.harvard.edu

Organizing Committee:
Vince Genova, Cornell
Ling Xie, Harvard
Usha Raghuram, Stanford
Sarmita Majumder, U. of Texas