



NNCI 2019 Etch Symposium- Novel Nanoscale Etching of Electronic, Photonic, 2D & Quantum Based Materials-Harvard University-December 5-6, 2019.

Dear NNCI and non-NNCI members:

We would like to invite you to participate in the 2019 NNCI Etch Symposium “Novel Nanoscale Etching of Electronic, Photonic, 2D, and Quantum Based Materials”, to be held Dec. 5-6, 2019 at Harvard University. The National Nanotechnology Coordinated Infrastructure is the NSF-sponsored network of 16 sites involving nearly 30 University shared research facilities across the country (<https://www.nnci.net/>). The NNCI organizes network-wide events, such as this symposium, to bring together the best in technical know-how. A principal objective is bring etch personnel together to create an interactive forum where our collective knowledge on etch equipment and processes can be shared.

An internal meeting of NNCI technical staff and invited non-NNCI universities (to be held Dec. 5), will feature sites updates and an open forum for discussion on any etch related topics. The formal public symposium (to be held Dec. 6) will feature technical presentations by experts in the field. We plan to have invited and contributed talks from leading providers of etch equipment such as Plasmatherm, Applied Materials, Lam, SPTS, Oxford Instruments, and others. These vendor talks will discuss advances in topics such as Atomic Layer Etching, etching of 2D materials, etching of III-V materials, magnetics etching, and TSV etching. In addition, there will be talks from academia, industrial and government labs on topics such as SiC etching, diamond etching, Lithium Niobate etching, the etching of superconducting Q-bit devices, silicon nanowire etching, and 2D material fabrication. We will also have an exhibitor area where equipment and service providers can set up informative displays or demos and meet with attendees. There will also be booths where the individual NNCI sites will have information concerning their respective nano-fabrication and characterization capabilities.

We have held previous etch symposia, since the creation of NNCI, at Cornell in 2016 and most recently at Stanford in 2018. Last year’s symposium attracted over 100 researchers, faculty and students, including many from non-NNCI sites such as Berkeley, Michigan, Princeton, and the University of British Columbia. These NNCI symposia provide a learning forum not only for etch personnel at NNCI sites, but well beyond and we look forward to your attendance and participation.

Please feel free to contact any of us for more information.

The NNCI Etch Symposium Organizing Committee

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