SEAS Cleanroom User Meeting

Date: January 22, 2019  Time: 9:00am – 5:30pm

Mann Engineering Student Center at 107 Dunham Laboratory (10 Hillhouse Ave, New Haven, CT 06511)

Free admission to all Yale researchers (not just cleanroom users). Registration is required for attendance. Please visit the following website to register for the event, the registration deadline is January 20, 2019.

https://www.eventbrite.com/e/seas-cleanroom-user-meeting-yale-university-tickets-54560347468

The SEAS Cleanroom at Department of Applied Physics is hosting a one-day user meeting, to get researchers and facility managers together, partly to announce the transition of the SEAS Cleanroom management team, partly to seek feedback from our cleanroom users. For this event, we have also invited a few prominent vendors onsite, to introduce their state-of-the-art technology in certain industries. Our hope is to connect some of the smartest minds at Yale University with the most experienced and knowledgeable experts in related fields, in a way to spark new ideas and collaborations.

Meeting Agenda:

09:00 - 09:30: Coffee and Breakfast (30min)

09:30 – 09:40: Opening Remark – Michael Power, Director of SEAS Cleanroom (to retire on 2/27/2019)

09:40 – 10:00: Introduction of SEAS Cleanroom – Kelly Woods / Sean Rinehart / Yong Sun

10:00 – 10:30: Invited Guest Speaker – Gerald Lopez, Director of Business Development, Singh Center for Nanotechnology, University of Pennsylvania -

“The Quattrone Nanofabrication Facility: A Perspective on Challenges and Opportunities”

10:30 – 11:00: Invited Vendor Speaker – Craig Ward, Applications Manager at Oxford Instrument -

“Deposition of High Quality Films by Inductively Coupled Plasma CVD”

11:00 – 11:30: Invited Vendor Speaker – Mike Hale, Sales Manager at AJA International -

“Magnetron Sputtering and Electron Beam Systems for Thin Film Applications”

11:30 – 11:55 Research Talk – Alex Bruch, Ph.D. Candidate, Professor Hong Tang’s Group -

“Nanophotonics and Nanomechanics: Microwave and Optical Physics on a Chip”

11:55 – 12:20 Research Talk – Mohsen Nami, Postdoctoral, Professor. Jung Han’s Group

“Wide-bandgap Semiconductors: New Opportunities in Photonics and Future of Power Electronics”
12:20 – 01:00: Lunch Break (40 minutes)

01:00 – 01:20: Introduction of the YINQE Facility, Michael Rooks, Senior Research Scientist

01:20 – 01:40: Introduction of Yale West Campus Core Facilities, Lei Wang, Research Support Specialist

01:40 – 02:10: Invited Vendor Speaker: Niels Wijnaendts van Resandt, Director Sales and Marketing North and South America, Heidelberg Instruments
“From Micro to Nano: Requirements and Solutions for High End Lithography”

02:10 – 02:40: Invited Vendor Speakers: Doc Daugherty & Roger Mccay, GenI Sys
“Better Lithography Through Advanced Data Prep and Simulation”

02:40 – 03:10: Invited Vendor Speaker: Alexander Legant, Sales Manager, Nanoscribe GmbH
“3D Printing by 2PP Sets New Standards in Micro and Nanofabrication”

03:10 – 03:30: Afternoon Coffee Break (20 minutes)

03:30 – 03:55: Research Talk – Kyle Serniak, Ph.D. Candidate, Professor Michel Devoret’s Group
“Fabrication of Superconducting Quantum Devices”

03:55 – 04:25: Invited Vendor Speaker: Stephen Vargo, Senior Global Applications Manager, Orbotech
“Introduction of SPTS PECVD and Related Applications”

04:25 – 05:25: Invited Vendor Speaker: Efrat Moyal, LatticeGear (A cleaving workshop, with live DEMO)
“Cleaving Is A Science! Learn How to Select the Correct Tools, Methods and Workflow”

05:25 – 05:30: Conclusion of SEAS Cleanroom User Meeting

[Acknowledgment] The admission to the SEAS Cleanroom User Meeting is free for all registered Yale University researchers, thanks to the generous sponsorship by the following vendors: