

Program

Single Molecule Biophysics World Networking Workshop

February 16 – 17
Hill Conference Room (Lebow 231)
MEM Seminar Room (Curtis 162)
Drexel University
Philadelphia, PA, U.S.A.

Organized by
Professor MinJun Kim
Dept. of Mechanical Engineering & Mechanics
Drexel University

Sponsored by
Provost Office @ Drexel University
Dept. of Mechanical Engineering & Mechanics @ Drexel University
National Science Foundation CMMI Division

Hill Conference Room (Lebow 231) in February 16

[Welcome Address] Organizer: MinJun Kim

09:40-10:00

[Session I] Single Molecule Analysis & Manipulation

10:00-10:50	John Kasianowicz @ NIST	Single Molecule Detection and Characterization Using Single Nanopores
10:50-11:40	Guoliang Yang @ Drexel	Measurement of the Energy Landscape Roughness of Protein Molecules
11:40-12:30	Prashant Purohit @ UPenn	Stretching and Twisting Rod Like Macromolecules

[Lunch] Sponsored by MEM Department

12:30-1:30

[Session II] Optical Approaches to Single Molecule Analysis

1:40-2:30	Josh Edel @ Imperial College London	Molecular Isolation on the Nanoscale
2:30-3:20	Han Cao @ BioNanoMatrix Inc.	Development of Nanotechnology Enabled Linear Single Molecule Analysis Platform

[Session III] Microfluidics and Nanofluidics

3:40-4:30	Andrew deMello @ Imperial College London	Intelligent Nanomaterial Synthesis: Toward a Microfluidic Robot Scientist
4:30-5:20	Rafael Mulero/MinJun Kim @ Drexel	Electrochemical Sensing and Characterization of Submicro- to Micro-scale Organic and Inorganic Analyte Using Solid-state Nanopores

MEM Seminar Room (Curtis 162) in February 17

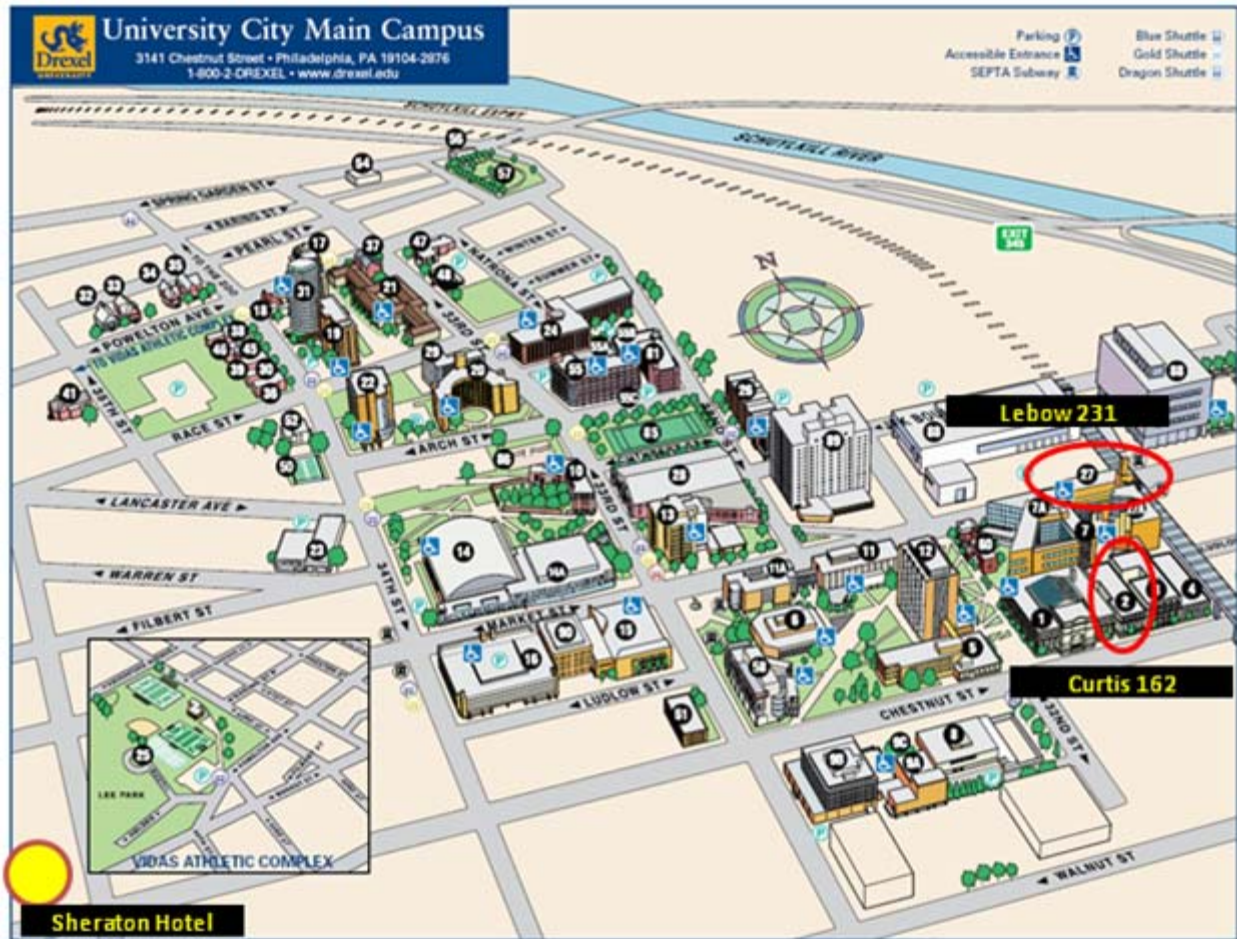
[Session IV] Nanoscale Architectures for Single Molecule Analysis

10:00-10:50	Hyun Jung Shin @ Kookmin University	1D Nanoscale Tubular & Wire Structures in Nanoporous Template with the Controlled Size of Pores by Atomic Layer Deposition
10:50-11:40	Tim Albrecht @ Imperial College London	From Molecular Electronics to Solid-state Nanopores

[Closing Remarks]

11:40-12:00 MinJun Kim

Directions to the Workshop @ the University Main Campus



#2: Curtis Building (Room 162: MEM seminar room)

#27: Lebow Engineering Building (Room 231: Hill conference room)

If you need further information, please feel free to contact Professor MinJun Kim (mkim@coe.drexel.edu).