MIT-MTL Center of Graphene Devices & 2D Systems
Annual Review Meeting

Friday, October 27, 2017
50 Vassar Street (RLE 36-428)

8:30-9:00  Registration and Breakfast
9:00-9:25  Welcome remarks and roadmap
           Professor Tomás Palacios
9:25-9:50  Multiscale modeling of 2D materials: chemistry and electronics
           Dr. Francisco Martin –Martinez (Professor Marcus Buehler’s group)
9:50-10:15 New epitaxy paradigm: Remote epitaxy for 2D material-based layer transfer
            Professor Jeehwan Kim
10:15-10:35 Morning Break /Poster session
10:35-11:00 Layered chalcogenide growth by MBE for phase-change electronics
            Professor Rafael Jaramillo
11:00-11:25 Nanoporous Graphene Membranes for Efficient Water Purification and Bio/Chemical Separations
            Professor Rohit Karnik
11:25-11:50 Valleytronic Information Processing with 2D Materials
            Dr. Steven Vitale (Lincoln Laboratory)
11:50-13:00 Lunch /Poster Session
13:00-13:25 Electron hydrodynamics and higher-than-ballistic conduction in graphene
            Professor Leonid Levitov
13:25-13:50 2D Materials at all Scales: structural composites and colloidal state machines
            Professor Michael Strano
13:50-14:15 Roll-to-roll CVD and printing of graphene
            Professor John Hart
14:15-14:40 Chemical vapor deposition synthesis and transfer of two dimensional materials
            Professor Jing Kong
14:40-15:00 Afternoon Break /Poster Session
15:00-15:25 Mid-Infrared optoelectronic response in topological Dirac materials
            Dr. Qiong Ma (Professor Pablo Jarillo-Herrero’s group)
15:25-15:50 Photoluminescent Arrays of Nanopatterned Monolayer MoS2
            Dr. Grace Han (Professor Jeffrey Grossman’s group)
15:50-16:15 Optical tuning of electronic valleys
            Professor Nuh Gedik
16:15-16:40 New opportunities in light-matter interactions enabled by graphene nanophotonics
            Dr. Nicholas Rivera (Professor Marin Soljacic’s group)