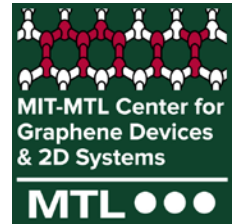




MIT-MTL Center of Graphene Devices & 2D Systems

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 Martín-Martínez (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 Robit 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)