

*Workshop on the WTEC International Study on
NanoModular Materials and Systems by Design*

NSF, Board Room (1235)
4201 Wilson Blvd., Arlington, VA
June 2, 2015

- 7:30 Registration and coffee
- 8:00 **Welcoming Remarks** Pramod Khargonekar, NSF
- 8:15 **Context and Workshop Logistics**, Patricia Foland, WTEC
- 8:25 **Framework for the Challenge and NNI Role**, Mike Roco, NSF
- 8:45 **Overview and Executive Summary of the Study**, Pulickel Ajayan (Chairman), Rice University
- 9:30 **Directed Assembly-Based Nanomanufacturing for Creating Nanomodular Devices and Systems**
Ahmed Busnaina, Northeastern University
- 10:00 Break
- 10:15 **Directed Self-Assembly Methods in 2D Materials: Promise and Challenges**
Padma Gopalan, Wisconsin University
- 10:45 **Applications of 2D Materials and Beyond**
Kaustav Banerjee, University of California, Santa Barbara
- 11:15 **Modular Nano-Bio Materials and Systems**
Charlie Johnson, University of Pennsylvania
- 11:45 **Modeling Challenges for NanoModular Materials**
Don Brenner, North Carolina State University
- 12:15 Lunch (to save time, a working brown-bag lunch will be provided, or you can bring one)
- 1:15 **Other Research on NanoModular Assembly in the U.S. and Abroad**
Mike Stopa, MIT
- 1:30 **Can 2D materials be simultaneously nano-modular and manufacturable?**
Gil Vandentop, SRC and Intel
- 2:00 **NEEDS: creating nanomodular systems by design**
Mark Lundstrom, Purdue
- 2:30 **Overarching Conclusions**
Pulickel Ajayan
- 3:00 **General Questions and Answers**
Pulickel Ajayan
- 3:30 **Adjourn**

To attend the workshop, please register online at <http://wtec.org/nmsd/>
(The workshop is free, but space is limited)