



University of Minnesota First Annual 2D Materials Summer School June 6th and 7th, 2016

The field of two dimensional (2D) materials is rapidly growing in response to the unique properties of these materials, the ability to tune properties with thickness, and the expanding list of potential applications. The latter include flexible electronics, sensors, high performance computing, information storage, power generation, optoelectronics, nanophotonics, and thermoelectrics. As a result of the diversity of applications, the range of 2D materials systems available is expanding dramatically. This annual Summer School is sponsored by the National Science Foundation's National Nano Coordinated Infrastructure Network (NNCI). The goal is to provide a venue for learning about these materials and applications. The first day will feature an outstanding group of speakers who will provide a discussion of the current state of the art in both 2D materials and their applications. The second day will provide hands-on exposure to both material growth and processing, and material and device modeling.

Registration is required, however, there is no registration fee. Day 2 hands-on session is FULL. To register for Day 1 talks, contact: Becky Von Dissen, Minnesota Nano Center at vondi001@umn.edu.

Agenda

Day 1 – Monday, June 6th: Seminar Session

Room 110 Physics & Nanotechnology Building (115 Union St SE)

<u>Time</u>	<u>Speaker</u>	<u>Affiliation</u>	<u>Title</u>
08:00-08:10	Stephen Campbell	UMN	Welcome and goals
08:10-09:00	Siddharth Rajan	Ohio State	2D material growth
09:00-09:50	Wendy Zhu	Illinois	2D material electronics
09:50-10:10	<i>Break</i>		
10:10-11:00	Eric Pop	Stanford	2D material thermal properties
11:00-11:50	Scott Bunch	Boston Univ.	2D material mechanics
11:50-13:20	<i>Lunch break</i>		
13:20-14:10	Enrico Rossi	William & Mary	2D transport theory
14:10-15:00	Daniel Gunlycke	NRL	2D material modeling
15:00-15:20	<i>Break</i>		
15:20-16:10	Donhee Ham	Harvard	2D material plasmonics
16:10-17:00	Tony Low	UMN	2D nanophotonics modeling

Day 2 – Tuesday, June 7th: Hands-on session (FULL)

<u>Time</u>	<u>Speaker</u>	<u>Affiliation</u>	<u>Title</u>
08:00-10:00	Tony Low	UMN	Modeling tool demo & training
10:00-10:10	<i>Break</i>		
10:10-11:00	Steven Koester	UMN	2D device fabrication
11:00-13:00	Hands-on 2D material demonstrations		
13:00	Dismiss		