

# Workshop on Self-rolled-up 3D Technology

May 21<sup>st</sup>, 2014, 1000 MNTL

<http://mocvd.ece.illinois.edu/events/events.html>

## Breakfast and registration (830 – 900 am)

Time	Presenter	Affiliation	Title
9:00	Xiuling Li	Illinois	Introduction and overview of self-rolled-up 3D technology
9:15	Oliver Schmidt	Ifw-dresden	Rolled-up nanotech for interdisciplinary research
9:45	Max Lagally	Wisconsin	Micropipes, Rucks, and Ripples: Making and Using the Third Dimension in Semiconductor Nanomembranes
10:15	Justin Williams	Wisconsin	MEMS neural patterning

## Coffee break (15 mins)

11:00	Paul Froeter	Illinois, X. Li group	Guiding neuron cells with silicon nitride microtubes
11:20	Cornelius Bausch	Hamburg, R. Blick group	III/V semiconductor microtubes as neuronal scaffolds and sensors
11:40	Jimmy Hsia	Illinois	Mechanics of mismatch strain driven tube formation

## Lunch break

1:30 pm	John Rogers	Illinois	Micromechanics of Folding, Twisting and Rolling for Soft Electronics
2:00	Feng Liu	Utah	Strain-Engineered Si Superlattice and Surface Transport: a First-Principles Study
2:30	Zetian Mi	McGill	Rolled-up quantum dot tube lasers and integrated nanophotonic circuits on Si

## Coffee break (15 mins)

3:15	Oliver Chen	Illinois	Modeling the Resonant Modes of the Rolled-up Tube by Conformal Transformation
3:40	Wen Huang	Illinois, X. Li group	Ultra small and high frequency passive electronics by rolled-up microtubes
4:00 – 5pm	<b>Panel Discussion</b> Panelists: Kent Choquette, Jim Coleman, Catrina Coleman, Placid Ferreira, Martha Gillette, Songbin Gong, Taher Saif, Jose Schutt-Aine, Weidong Zhou		

### Sponsors:

College of Engineering, Strategic Research Initiative

Center for Nanoscale Science and Technology ([nano@illinois.edu](mailto:nano@illinois.edu))

Micro and Nanotechnology Laboratory