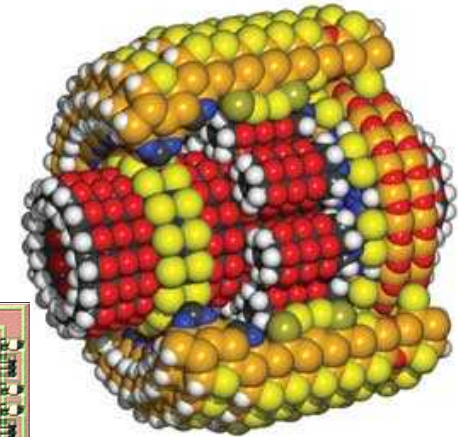
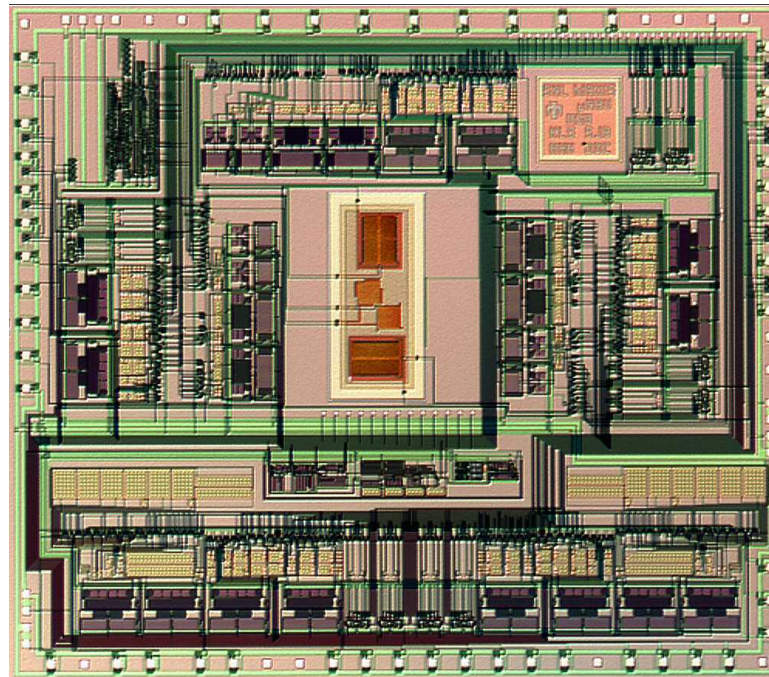
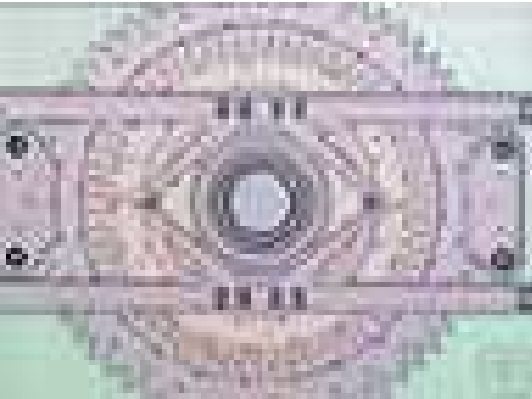


National Institute for Nano Engineering (NINE) Short Course



Regan Stinnett
Jim Allen
Michael Shaw
Murat Okandan
Bruce Draper
Neal Shinn
Kent Childs
Alec Talin
David Luck

Course Schedule



Wednesday 18 June

8:30	Welcome
8:50	Introduction to MEMS
9:20	Surface Micromachining & SUMMIT™
10:10	Break
10:20	MEMS Advanced Concepts
11:20	University Alliance & SAMPLES Program
11:35	CMOS Technology Introduction
12:25	Lunch
1:10	CINT User Program
1:30	Micro Fluidics Platform – Fabrication
1:45	Micro Fluidics Platform – Experimentation
1:30	Nano Mechanics Platform – Fabrication
1:45	Nano Mechanics Platform – Experimentation
2:35	Break
2:45	Electron Transport Platform – Fabrication
3:00	Electron Transport Platform – Experimentation
3:25	Wrap-up

Notes



- Breaks
- Lunch
- Restrooms
- Exits

NINE Short Course

Course Objective

- **Provide attendees with an overview of the spectrum of technologies (Micro - Nano) which enable Nano Engineering in the Future**

Acronyms

SAMPLES[™] — **S**andia **A**gile **M**EMS **P**rototyping,
Layout Tools, **E**ducation, and **S**ervice

SUMMiT[™] — **S**andia **U**ltra-Planar **M**ultilevel **M**EMS
Technology

**5-layer polycrystalline surface micromachining
fabrication process**

Acronyms

- NINE – National Institute for Nano Engineering
- CINT – Center for Integrated Nanotechnologies



- **Introductions**
 - **Name**
 - **Affiliation**
 - **MEMS interest/experience**