

## Microfabricated Biological Machines for Sensing and Locomotion

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**Date: Tuesday, December 3, 2013**

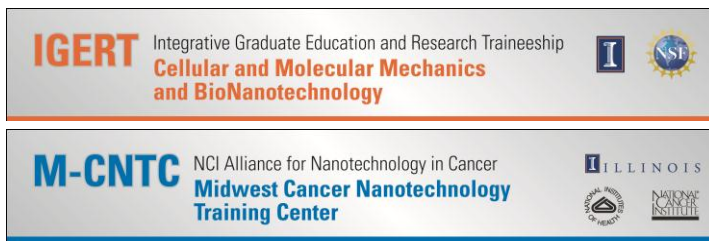
**Time: 12:00 – 12:30 p.m. Central (10:00 – 10:30 a.m. Pacific)**

**Location: 1000 MNTL at Illinois (KL 361 at UC Merced)**

### Abstract:

The advent of 3D printing additive manufacturing technologies has enabled the rapid fabrication of complex structures. Concurrently, advances in the field of tissue engineering have created complex biological substitutes for native tissue and organs. A synthesis of principles from these two fields brings about a new discipline: forward engineering of microfabricated biological machines and systems capable of complex functional behaviors. Such machines can be tailored to a myriad array of sensing and actuation tasks *in vitro* and *in vivo*.

### Seminar Presented by:



**CNST** University of Illinois Center for Nanoscale Science and Technology