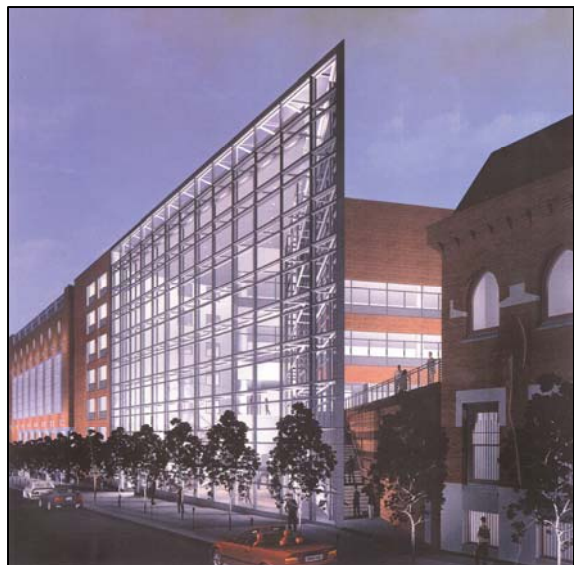


College of Engineering Presents

CoE Discovery Workshop



Date: Wed., November 15, 2006

Time: 1:00 pm

Place: Bosson Auditorium

This workshop will feature the current biologically-inspired engineering research among the faculty in the College of Engineering. The goal of this workshop is to foster partnerships and initiate dialogue and collaboration that will lead to research programs among colleagues in CoE, CoAS, School of BioMed and DuCOM, among others. Faculty, staff, graduate students and senior undergraduates are encouraged to attend.

Time	Presenter	Title
1:00	M. Kim	When Engineering Met Biology
1:06	M. Olson	Bacterial Motility and Chemotaxis at NAPL Surfaces
1:12	G. Rosen	Engineering Chemical Localizers Using Bio-Inspired Designs
1:18	T. Kurzweg	On-Chip Spectrometer for Pre-Cancerous Detection Applications
1:24	R. Mutharasan	Sensitive Detection of Proteins, Genes and Pathogens
1:30	A. Lau	Three Tasks on Computer Assisted Surgery Engineering
1:36	C. Haas	Reducing the Risk from Environmental Exposures to Pathogens
1:42	D. Salvucci	Predicting Human Behavior with Computational Cognitive Models
1:48	Y. Gogotsi	Nanostructured Carbons for Biomedical Applications
1:54	A. Daryoush	Microwave Photonics in Biomedical Applications
2:00	A. Zavaliangos	High Resolution X-ray Microtomography at Drexel University
2:06	M. Marcolongo	Toward Understanding and Treatment of Painful Spine Conditions
2:12	S. Siegler	Image-Based Joint Biomechanics
2:18	H. Pearlman	Thermo-Fluid Science
2:24	C. Schauer	Structural Color: What Can We Learn from Butterflies?
2:30	M. Noh	Microfluidic Tools for Biological and Clinical Applications
2:36	A. Fridman	Plasma Medicine: New Engineering Approach to Healing of Wounds and Skin Diseases
2:42	J. Zhou	Bone Scaffold Fabrication using Porogen Based Injection Molding Method & Biocomposite Materials
2:48	B. Layton	Cell and Protein Mechanics
2:54	F. Capaldi	Mechanics at the Molecular and Tissue Levels
3:02	W.H. Shih	Piezoelectric Biosensor and Nanoparticle Fluorescent Markers
3:08	D. Breen	Geometric Biomedical Computing
3:14	P.M. Shankar	Dual Modality Imaging for Cancer Screening
3:20	J. Walsh	On the Viability of Averaged Brownian Dynamics for Simulating Permeation in Ion Channels

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