



**Computer Aided  
Design Laboratory**

**Instrumen-  
tation  
Laboratory**



**Materials & Process  
Lab.**



**Thermodynam-  
ics/Fluids  
Laboratory**

**Engine  
Laboratory**



Mr. Joe Glaz



Prof. Boris Khusid



Prof. Harry Kountouras



Prof. Albert Narh



Prof. Joga Rao



Ms. Peg Sullivan



Prof. Herli Surjanhata



Ms. Barbara Valenti



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# Welcome to the Mechanical Engineering

## Fall Open House Tours

**Sunday, October 29, 2006**

**1:00 P.M.—3:30 P.M.**

**Mechanical Engineering  
Center**

**Room 221**



Mechanical Engineering Center



Prof. William Van Buskirk, Acting Chair  
and Professor of  
Mechanical Engineering  
Department



Prof. Pasquale Florio, Associate  
Chair for Undergraduate Studies

## Academic Fair

**11:00 am—1:00 pm**  
**Campus Center**

**Prof. Pasquale Florio,  
Prof. Boris Khusid, Prof. Albert Narh,  
Prof. Joga Rao, Ms. Peg Sullivan**

**ME undergraduate student officers of SAE:  
Brian Baker, Jim Granitzki, Chris King, and  
Jon Palumbo, Pi Tau Sigma officers:  
Ben Angeli and Dominick Brandow**

## Mechanical Engineering

### Fall Open House Tours

**MEC 221**

**1:00 pm—2:15 pm**

**Repeated**

**2:15 pm—3:30 pm**

- **Welcome and Introduction to ME by  
Prof. Harry Kountouras**

- **ME Laboratory Tour with  
demonstrations**

**Tour guides: Prof. Harry  
Kountouras and Ms. Barbara Valenti**



**See  
SAE Mini Baja  
all-terrain vehicle**

## Tour of ME Laboratories

### **2nd floor of MEC**

**MEC 219: Computer Aided Design Lab**  
See How Mechanical Engineers Use Computers In Design

Prof. Herli Surjanhata

**MEC 214: Instrumentation Lab**  
Measurement of Rotation Speed; Signal  
Filtration; Thermometry; Programmable  
Logic Control Trainer; Torque  
Measurement of Bending and Torsion

Prof. Joga Rao

**MEC 232: Materials & Process Lab**  
Metal microstructures, heat treatment of  
metals, measuring instruments and precision/computerized machining processes

Prof. Albert Narh

### **1st floor of MEC**

**MEC 110: Thermodynamics/Fluids Lab**  
Air Conditioning and Refrigeration; Wind  
tunnel; Convective Heat Transfer Apparatus;  
Transient Heat Flow; Flow rate measurement;  
Shell/Shell Heat Exchanger

Laser Doppler Velocimetry; Hydraulic  
Turbine; Centrifugal Pumps in Series and  
Parallel; Gear Pump; Flow and Hydraulic  
Impact of a free jet.

Prof. Boris Khusid

### **MEC 114: Engine Lab**

Run a computerized performance test on  
a 4-cylinder automobile engine using a  
dynamometer in the Internal Combustion  
Engine Laboratory

Mr. Joe Glaz