



**Computer Aided  
Design Laboratory**



**Instrumentation  
Laboratory**



**Materials & Process Lab.**



**Thermodynamics/  
Fluids Laboratory**



**Engine  
Laboratory**



Mr. Joe Glaz



Ms. Peg Sullivan



Prof. Harry Kountouras



Prof. Herli Surjanhata



Prof. Albert Narh



Ms. Barbara Valenti



Prof. Joga Rao



Prof. Chao Zhu



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**NJIT**  
New Jersey's Science & Technology University

NEWARK COLLEGE OF ENGINEERING

# Welcome to the Mechanical Engineering

## Winter Open House Tours

**Sunday, February 24, 2008**

**1:00 P.M.—3:30 P.M.**

**Mechanical Engineering  
Center**

**Room 221**



Mechanical Engineering Center



Prof. Rajpal Sodhi, Interim 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. Rajpal Sodhi, Prof. Pasquale Florio, Prof. Albert Narh, Prof. Joga Rao, Ms. Peg Sullivan, Ms. Barbara Valenti, Prof. Chao Zhu, ASME, Pi Tau Sigma and SAE**

## Mechanical Engineering

### Fall Open House Tours

**MEC 221**

**1:00 pm—2:15 pm**

**Repeated**

**2:15 pm—3:30 pm**

- **Welcome by Prof. Rajpal Sodhi**
- **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. Chao Zhu

**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. Joga Rao

### **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

Mr. Joe Glaz