



**Computer Aided
Design Laboratory**



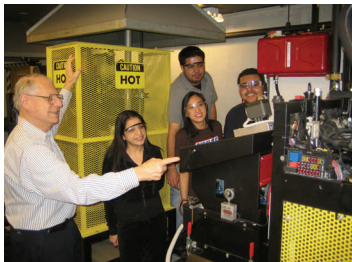
**Instrumentation
Laboratory**



Materials & Process Lab.



**Thermodynamics/
Fluids Laboratory**



**Engine
Laboratory**



Mr. Joe Glaz



Prof. Joga Rao



Prof. Harry Kountouras



Ms. Peg Sullivan



Prof. Balraj S. Mani



Prof. Herli Surjanhata



Prof. Albert Narh



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NJIT
New Jersey's Science & Technology University

NEWARK COLLEGE OF ENGINEERING

**Welcome
to the
Mechanical
Engineering**

**Fall Open
House Tours**

Sunday, October 25, 2009

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. Kwabena (Albert) Narh, Associate Chair for Undergraduate Studies

Academic Fair

11:00 am—1:00 pm
Campus Center

Prof. B. Mani, Prof. Albert Narh, Prof. Joga Rao, Prof. Rajpal Sodhi, Ms. Peg Sullivan, Mrs. Barbara Valenti, 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 Mrs. Barbara Valenti



Meet SAE students and see the SAE Mini Baja Vehicle MEC 216

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. Balraj Mani

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