



**Computer Aided
Design Laboratory**



Mr. Joe Glaz



Prof. Joga Rao



Prof. Harry Kountouras



Prof. Herli Surjanhata



Prof. Balraj S. Mani



Mrs. Lucie Tchouassi



Prof. Albert Narh



Mrs. Barbara Valenti



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<http://mechanical.njit.edu/>

**Instrumentation
Laboratory**

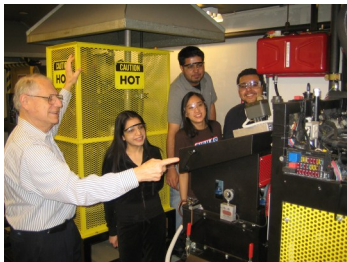


Materials & Process Lab.

**Thermodynamics/
Fluids Laboratory**



**Engine
Laboratory**



NJIT
New Jersey's Science & Technology University

NEWARK COLLEGE OF ENGINEERING

Welcome to the Mechanical Engineering

Winter Open House Tour

Sunday, February 26, 2012

1:00 P.M.—3:00 P.M.

**Mechanical Engineering
Center**

Room 221



Mechanical Engineering Center



Prof. Reggie Caudill, Chair and Professor of Mechanical and Industrial 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, Mrs. Lucie Tchouassi**
ASME, Pi Tau Sigma and SAE

Mechanical Engineering

Winter Open House Tour

MEC 221 & MEC 224

1:00 pm—2:15 pm

Repeated MEC 221

2:15 pm—3:30 pm

- **Welcome by Prof. Reggie Caudill**
- **Introduction to ME by Prof. Harry Kountouras**
- **ME Laboratory Tour with demonstrations**

**Tour guides: Prof. Harry Kountouras
Lucie Tchouassi, Barbara Valenti**



Meet SAE students and see the SAE Baja Vehicle in room MEC 216

Tour of ME Laboratories

2nd floor of MEC

MEC 219: Computer Aided Design Lab
See How Mechanical Engineers Use Computers and 3D Printers In Design

Prof. Herli Surjanhata

MEC 214: Instrumentation Lab
Measurement of Rotation Speed; Signal Filtration; Thermometry; Programmable Logic Control Trainer; 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