

University OF South Florida

College of Engineering

Presents

Interdisciplinary ROBOTICS

Research Laboratory Tours

**Engineering II,
Hall of FLAGS**

May 31, 2007

Tour our interdisciplinary research laboratories to learn how USF engineers are pushing the technology envelope.

How? Sign up for a group tour by visiting the registration table on May 31st.

When?

Tours will be led by engineering graduate students and faculty, and will be begin at 4:30 pm.

Where? Follow the signs to the College until you reach us in Engineering Building II, ENB Hall of Flags.

Center for Rehabilitation Engineering and Technology

*Presented by
Redwan Alqasemi, Ph.D.*

Research Park 114 then Kopp 19A

**4:30 pm Group 1
5:15 pm Group 2
6:00 pm Group 3**

The Center for Rehabilitation Engineering and Technology (CRET) is a unique interdisciplinary approach, which incorporates service delivery, research and academic programs in order to provide quality technology interventions for individuals with disabilities. Fundamental to the Center's mission is to develop integrated rehabilitation robotic systems that will increase employment of individuals with disabilities. The labs associated with this Center include mobility systems, workstation and wheelchair-mounted rehabilitation robotics, vehicle modification systems, motion analysis lab and capstone design systems.

Center for Robot Assisted Search and Rescue Research Lab & Field Test Site

*Presented by
Jeff Craighead, Ph.D. Candidate*

ENB 221

**4:30 pm Group 3
5:15 pm Group 1
6:00 pm Group 2**

The Center for Robot-Assisted Search and Rescue (CRASAR) is a Type II Center at the University of South Florida, with Dr. Robin Murphy as the overall Director. It serves as crisis response and research organization which strives

to direct and exploit new technology development in robotics and unmanned systems for humanitarian purposes worldwide. It was originally established under the auspices of NIUSR (National Institute for Urban Search and Rescue), and participated in the WTC response, deploying robots on Towers 1 and 2, Building 4, and other areas from the early morning of 9/12/2001 through 10/2/2001. The Center's mission is to serve existing rescue organizations by providing deployable robot-assisted search and rescue teams on order, certifying and training SAR personnel on operationally relevant robot systems, evaluating emerging robot technologies, and fostering research into SAR-specific robot systems.

NanoMaterials and NanoManufacturing Research Center

*Presented by
Robert Tufts, Director*

Nanotech 1

**4:30 pm Group 2
5:15 pm Group 3
6:00 pm Group 1**

The NNRC is a university-wide user fabrication and metrology center providing state-of-the-art equipment, professional support personnel and infrastructure to enable multidisciplinary research in nanomaterials and nanomanufacturing methods related to fundamental materials science, sensors, actuators, electronics, bio-systems, medical products, optics and integrated nanoscale systems. The Nanotech I facility supports research projects of faculty, graduates students, undergraduates, and industrial researchers.

RESOURCES FOR STUDENTS

Engineering: A Smart Start

- Free program provided new freshmen a review of math and chemistry to help prepare for first semester at USF.
- Tentatively scheduled the week of August 21st. Contact Kate Johnson at kjohnson@eng.usf.edu.

Engineering Listserv

- Visit <http://org.eng.usf.edu/ECC/ecclinks.html> to subscribe to receive notices from fellow students & faculty to find out about upcoming events, registration, scholarships, internships, & student activities.

Engineering Study Center

- Free, walk-in assistance in engineering, math, physics & chemistry from Graduate & peer tutors available from 10am-5pm.
- Visit http://www.eng.usf.edu/mr/tutoring_schedule.htm

Multicultural Engineering Program (MEP)

- Student organizations encourage academic excellence, personal growth, & professional development. Contact ecferman@eng.usf.edu

Engineering Shadowing and College of Engineering Tours

- Spend time visiting engineering classes, meet with our students and tour our COE labs. Contact Eva Fernandez at ecferman@eng.usf.edu.

Engineering Expo

- Opportunities to network within the college, community, local industries, and k-12 schools, to learn about engineering education, research and careers. Contact Henry Jeanty at Jeanty@cse.eng.usf.edu

Engineering Scholarships

- Apply for all available scholarships in the College of Engineering at one time with a comprehensive application. Visit <http://www.eng.usf.edu/mr/scholarship.htm> or contact Kate Johnson at kjohnson@eng.usf.edu.

Research Experience for Undergraduates (REU)

- COE offers undergraduate Research Fellowships to work with faculty mentors and graduate students on interdisciplinary research projects. Contact Sylvia Thomas at Sylvia@eng.usf.edu

USF Counseling Center

- Free private & confidential counseling to USF students. Visit www.usf.edu/counsel, or call (813) 974-2831

USF Career Center

- Helps students plan, implement career goals, job search, provides information on employment opportunities, career fairs, co-ops, and internships. Visit www.career.usf.edu, or call (813) 974-2171.

USF Financial Aid

- Retrieve information on your financial aid, apply for aid & monitor applications. Visit <http://usfweb.usf.edu/finaid> or OASIS at <http://usfonline.admin.usf.edu/>.

ENGINEERING STUDENT SOCIETIES

Alpha Pi Mu, Industrial Engineering Honor Society
American Institute of Aeronautics and Astronautics
American Institute of Chemical Engineers
American Society of Civil Engineers
American Society of Heating, Refrigerating and Air-conditioning Engineers
American Society of Mechanical Engineers
Association for Computing Machinery
Biomedical Engineering Society
Chi Epsilon, Civil Engineering Honor Society
Engineering College Council
Engineering Senators
Eta Kappa Nu, Electrical Engineering Honor Society
Engineering EXPO
Florida Georgia Louis Stokes Alliance For Minority Participation
Florida Engineering Society
IEEE Computer Society
IEEE Electrical Engineering Society
Institute of Industrial Engineers
Institute of Transportation Engineers
National Society of Black Engineers
Omega Chi Epsilon, Chemical Engineering Honor Society
Pi Tau Sigma, Mechanical Engineering Honor Society
Society of Automotive Engineers
Society of Hispanic Profession Engineers
Society of Women Engineers
Tau Beta Pi, The Engineering Honor Society
Theta Tau
Upsilon Pi Epsilon, Computer Science Honor Society

To find out more about student societies and organizations, please use the following link:

<http://www2.eng.usf.edu/CurrentStudents/organizations.htm>

FCRAR 2007

The Florida Conference on Recent Advances in Robotics & Robot Showcase

Laboratory Tours



Center for
Rehabilitation
Engineering and
Technology

May 31- June 1, 2007