



Engineers Day Open House

February 23, 2008, 9:00 a.m. - 1:00 p.m.

Program

Welcome

We're glad you're here to help us celebrate National Engineers Week. Engineers are the world's problem solvers, and today you'll be able to learn what engineers do and how they do it. While you're learning, you'll have fun participating in contests, winning prizes, watching experiments and demonstrations, and talking to engineers about their jobs.

E-Day Headquarters, Emergency Center and Lost and Found (859) 257-4856	161, Raymond
Registration/sign up for door prizes.....	1 st Floor, Raymond
Registration/sign up for door prizes.....	Student Commons, RGAN
Registration/sign up for door prizes.....	Lobby, FPAT
Registration/sign up for door prizes.....	Lobby, CRMS/RMB

Contests

Name of Contest	Location
Coal Loading (SME) W*	255, FPAT
Edible Car (SWE) W*	53, OHR/Raymond
Egg Drop - Judging at 11:00 am (ASCE) P*	Basement, OHR/Raymond
Hair Strength Test (Materials Advantage). W*	67, FPAT
Index Card Bridge - Judging at 11:00 am (ASCE) W*	62, OHR/Raymond
Model Crane (ASME) W*	202, RGAN
Newspaper Bridge Judging at 12:00 noon (ITE) P*	62, OHR/Raym
Paper Airplane (AIAA)W* - Judging ongoing until 12:30 pm	Basement Hallway, ASTeCC
Popsicle Stick Bridge Judging at 10:00 am (Chi Epsilon) P*	226, OHR/Raymond
Pringle Mailing - Judging at 9:30 am (KSPE) P*	161, OHR/Raymond
Rashing Ring Counting.....	59A FPAT
Rube Goldberg (Alumni Association) P*	207, RGAN
Tower Building (NSBE) W*	First Floor, RGAN
Tower Contest (Triangle) W*	Fourth Floor, CRMS/RMB
Volcano (AIChE) P*	59, FPAT

W = Walk up contest, P = pre-registration required to participate in this contest

Building key for contests, exhibits, demonstration locations and directions:

F. Paul Anderson Tower (FPAT), Advanced Science and Technology Commercialization Center (ASTeCC), UK Center for Manufacturing (CRMS/RMB), Ralph G. Anderson (RGAN), Oliver H. Raymond (OHR/Raymond), Mining and Minerals Resources Building (MMRB).

Exhibits, Demonstrations, Labs

Location

3D Scanning.....	455, FPAT
A ruler for Image Quality -- when is an image good enough to buy?	552, FPAT
Acoustic Modeling of Diesel Particulate Filters	202, RGAN
Amazing Materials.....	First Floor Hallway FPAT
Anechoic Test Cell.....	6, RGAN
Artificial Organs	253, FPAT
ASCE Steel Bridge Exhibit.....	Basement, OHR/Raymond
Automated Incident Recording System (AIRS) video.....	112, OHR/Raymond
Balloon Giveaway.....	263, FPAT
BIG BLUE lab	3, RGAN
Biomedical Materials and Implants.....	253, FPAT
Blanding III Information Table.....	First Floor, OHR/Raymond
Cardiorythms	253, FPAT
Career Services.....	Commons, RGAN
CeNSE (tours of lab and posters).....	349, 365, 369, ASTeCC
Chemical and Materials Engineering Department.....	First Floor Lobby, FPAT
Chemical Engineering: The Frontiers of Science.....	First Floor Hallway, FPAT
Chemical Processing.....	59A, FPAT
Civil Engineering exhibits	120, OHR/Raymond
COE Balloon Giveaway	Second Floor Lobby,
CRMS/RMB	
COE Outreach.....	Commons, RGAN
Combustion and Fire	202, RGAN
Composite Materials Display - Plastic Bridges and more.....	112, OHR/Raymond
Computational Electromagnetics.....	682, FPAT
Computer Graphics Demo.....	211, RGAN
Computer Science Demos & Presentations	102 & 103, RGAN
Computer Science Information table	103, RGAN
Computer Simulation of Advanced Metal Forming Processes	220K, CRMS/RMB
Construction engineering	First Floor, OHR/Raymond
Co-op.....	Commons, RGAN
Digital Design Lab -- undergraduate.....	581, FPAT
Dynamic Systems and Controls Lab	10, RGAN
Earthquake simulator.....	112, OHR/Raymond
Emergency Center 257-4856	161, OHRRaymond
EDRL - Electronic Devices Research Lab	361, ASTeCC, 651 FPAT
Electron Microscopy	8, ASTeCC
Energy Efficiency Research	202, RGAN
ERTL - Quantitating Environmental Contaminants.....	12, FPAT
Excimer Laser Micromachining - Free Laser Marked Pennies.....	659, FPAT
Flame Synthesis of Carbon Nanotubes.....	202, RGAN
General College Information.....	Commons, RGAN
Ground Penetrating Radar demonstration.....	112, OHR/Raymond
Grow Your Own Energy	263, FPAT
Hair Strength Testing.....	67, FPAT
High Speed Motion Analysis of Machining Operations.....	9, CRMS/RMB
High-Speed Thermal Vision, images up to 420 frames/sec	368, ASTeCC
How Can We Grow Plants on Mars?.....	263, FPAT
How do enzymes work?	263, FPAT
How does water flow underground?	263, FPAT
How Hot are You?.....	263, FPAT
How is Cotton Candy Made?	263, FPAT
Hydrocyclone Demonstrations.....	255, FPAT

Exhibits, Demonstrations, Labs

Location

IEEE Student Branch -- building simple circuits	577, FPAT
IEEE Student Branch "IEEE Café"	453F, FPAT
IEEE Student Branch SouthEastCon Robot and "build your own magnet" competition.....	591, FPAT
IGERT Engineered Bioactive Interfaces and Devices	First Floor Hallway, FPAT
Impactor.....	First Floor Hallway, FPAT
Electrical and Computer Department Information Table.....	First Floor Lobby, FPAT
Center for Manufacturing Information Table	Second Floor Walkway, FPAT
Infrared Thermal Measurements in Metal Cutting	9, CRMS/RMB
Injection Molding.....	9, CRMS/RMB
Ingles Hall Dorm Information Table	First Floor, OHR/Raymond
ISPE Pharmaceutical Engineering: Reengineering Modern Medicine	First Floor Hallway, FPAT
It's a Toy, It's a Tool, It's a Remote Sensing Device.....	263, FPAT
Kentucky Fluid Cluster Lab.....	214, RGAN
KTC Library – Information and resources about engineering.....	First Floor, OHR/Raymond
KySat Laboratory	571, FPAT
KySAT Satellite Earth Station	553, FPAT
Laser Materials Processing Lab	119, CRMS/RMB
Lean Systems Lab.....	429, CRMS/RMB
Lightweight Materials; Testing and Forming Applications	12, CRMS/RMB
Machining Research – Poster Presentation of Active Projects.....	9, CRMS/RMB
Magnetically Levitated Vibration Absorber	14, RGAN
Mass Customization Simulation	209, CRMS/RMB
ME Senior Capstone Project Posters	202, RGAN
Measuring Strain	255, FPAT
Mechanical Engineering Program Information	202, RGAN
Mine Design Lab Demonstrations	248, MMRB
Mine Roof Support Demonstrations	255, FPAT
Minority Engineering.....	102, Whitehall
Minority Engineering pizza lunch & presentation.....	102, Whitehall
Nanoscale Certificate Program Poster	202, RGAN
NASA's Human Powered Centrifuge.....	253, FPAT
Near-Dry and Cryogenics Machining Demonstrations	9, CRMS/RMB
Optical Profilometry Demonstration.....	14, RGAN
Painting Technology Research.....	202, RGAN
Precision Laser Pointing System.....	14, RGAN
Rapid Prototyping	112, CRMS/RMB
Rattle and Hum -- Fun with Digital Audio.....	465, FPAT
Registration Table.....	First Floor, OHR/Raymond
Registration Table.....	Commons, RGAN
Registration Table.....	Commons, RGAN
Registration Table.....	Lobby, CRMS/RMB
Shape memory Alloy Demonstration	202, RGAN
Share/Not to Share: how to ensure privacy +security in video sharing applications.....	462, FPAT
Supercomputers R Us	672, FPAT
Sustainability Engineering Research Program.....	9, CRMS/RMB
Transportation Simulations.....	120, OHR/Raymond
Video Presentation of Chip Breaking Process in Machining	9, CRMS/RMB
Volcano.....	59A, FPAT
Web-based Machining Optimization (Software Demonstration).....	9, CRMS/RMB
Welding Research Laboratory	119, CRMS/RMB
Wildcat 1/4 Scale Pulling Tractor.....	Courtyard, RGAN
Women in Engineering	Commons, RGAN
Zoom into Engineering	57, OHR/Raymond

Corporate and Organization Exhibitors

Exhibit	Location	Exhibit	Location
Air Force ROTC.....	Commons, RGAN	Institute of Transportation Engineers/LFUCG	
Alliance Coal Company	255, FPAT	112, OHR/Raymond
Arch Coal Inc.....	255, FPAT	KY Coal Association	255, FPAT
ASHRAE	203, RGAN	Kentucky Transportation Cabinet	265 & 267, FPAT
Asphalt Institute	Second Floor Hall, OHR/Raymond	Lexmark International, Inc.	257, FPAT
Association of State Dam Safety Officials.....	Second Floor Hall, OHR/Raymond	Marathon Petroleum	203, RGAN
Belcan	203, RGAN	Martek.....	Second Floor Lobby, CRMS/RMB
Big Ass Fans.....	203, RGAN	Mason & Hanger Group.....	Second Floor Hall, OHR/Raymond
Burgess & Niple, LTD.....	Second Floor Hall, OHR/Raymond	Microsoft.....	Second Floor, OHR/Raymond
CMTA Engr. Consultants	203, RGAN	Newton's Attic	Courtyard/IRGAN
Cummins, Inc.....	Gillis Lot	Palmer Engineering	Second Floor Hall, OHR/ Raymond
Entran	Second Floor, OHR/Raymond	Sierra Club	First Floor Lobby, CRMS/ RMB
Eon (KU).....	Gillis Lot	Stantec (Fuller, Mossbarger Scott & May).....	Second Floor Hallway, OHR/Raymond
Explorium (Lexington Children's Museum).	First Floor Lobby, CRMS/RMB	Tau Beta Pi Lego League Robotics Exhibition.....	215E, CRMS/RMB
Exstream Software	Second Floor, OHR/Raymond	Terex/Genie	263, FPAT
Hitachi.....	203, RGAN	Trane	203, RGAN
H.W. Lochner.....	Second Floor, OHR/Raymond	Tread On Me Rubberscapes	Second Floor Lobby, CRMS/RMB
IEEE Lexington Chapter	Second Floor Hall, OHR/Raymond		

Student Organization Exhibitors

Exhibit	Location	Exhibit	Location
ACM/UPE Information Table.....	103 RGAN	IMAPS Information Table.....	10, CRMS/RMB
AIAA Information Table	Commons, RGAN	KSPE Information Table	First Floor, OHR/Raymond
AICHE Information Table	First Floor Hallway, FPAT	NSBE Information Table	Student Commons, RGAN
ASABE information Table + Tractor	Courtyard, RGAN	Phi Sigma Rho Information Table	First Floor, OHR/Raymond
ASCE Concrete Canoe Exhibit.....	16, OHR/Raymond	SME (Manufacturing) Information Table	Basement, ASTeCC
ASCE Information Table	First Floor, OHR/Raymond	Solar Car	Courtyard, RGAN
ASME Information Table.....	202, RGAN	SME (Mining) Information Table	255, FPAT
BMES Information Table.....	253, FPAT	SWE Information Table	Commons, RGAN
CHEGSA Information Table	First Floor, FPAT	Tau Beta Pi Lego League Robotics	215E, CRMS/RMB
Chi Epsilon Information Table	Second Floor, OHR/Raymond		
ESC Information Table.....	First Floor Lobby, FPAT		
IEEE Open Lab.....	577, FPAT		

**Enter to win door prizes and
a \$4,000 Scholarship***

entry boxes are located at registration tables

*The winner will be chosen from a random drawing of all registration forms received from current middle school and high school students attending Engineers Day 2008. (One registration form per person; current UK employees and their immediate families are not eligible.) To receive the scholarship, student must be admitted to the College of Engineering at the University of Kentucky and remain in good standing. Winning student will receive \$1000 per year for tuition which will be applied to the student's account annually for 4 years, for a total scholarship award of \$4000.