Integrating knowledge, deriving genius.

MARCH 12-13, 2010 http://eoh.illinois.edu

ORS

EOH 2010

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EVENT HIGHLIGHTS

MIDDLE SCHOOL COMPETITION

The Middle School Design Competition offers 5th through 8th graders an opportunity to "integrate knowledge, derive genius" through a prepared design challenge. This year, the challenge is to build a wire glider using everyday materials. Come and check out the competition on **Saturday, March 13th in Digital Computer Laboratory between 10:00am and 1:00pm!** By using ordinary objects, contestants have to apply engineering principles combined with creativity to compete for the best design.

RUBE GOLDBERG HIGH SCHOOL DESIGN CONTEST

Teams of high school students have put their heads together to design exciting contraptions with the goal of dispensing an appropriate amount of hand sanitizer into a hand. Inspired by the famous cartoons of Rueben Lucius Goldberg, students find complex ways of accomplishing a simple task using ordinary (and sometimes not-so-ordinary) materials. Science and engineering principles are combined with creativity and ingenuity to create these awesome inventions. Stop by **Campus Recreation Center East on Friday between 10:00am and 1:00pm** to see these amazing machines in action and vote for your favorite one!

ILLINI ENGINEERING CHALLENGE

Here's a chance for EVERYONE to work on an actual engineering project! The Illini Engineering Challenge is an on-site design challenge open to the general public, so everyone who attends EOH 2010 is welcome to participate! There are several challenges for you at the Transportation Building this year. Stop by and try your hands on the challenges and you could win a free EOH t-shirt!

AMD W.J. "JERRY" SANDERS CREATIVE DESIGN COMPETITION

AMD W.J. "Jerry" Sanders Creative Design Competition is an annual robotics contest which allows teams of the best engineering students in the country to test their engineering skills and ingenuity. This year, robots will be playing a game of Tic-Tac-Toe. This is one of the largest and most exciting events at EOH, and is sponsored by Advanced Micro Devices. Come join us to encourage creativity and excellence in engineering! *Kenney Gym, Friday (9AM-4PM), Saturday (9AM-3PM)*

Micro and Nanotechnology Laboratory Tours

Friday Only-First tour at 9AM, approximately every 15 minutes, last tour at 3:45PM.

Concrete Crushing

Talbot Laboratory basement - 10:00am, 11:30am, 1:00pm, 2:30pm

Rube Goldberg Machine

The Rube Goldberg Society has built a machine to dispense hand sanitizer. A Rube Goldberg machine contains many small steps that accomplish a big task. The machine is themed after Willy Wonka's Chocolate Factory, containing all kinds of gizmos from the movie. Come check out the amazing machine this year!

Engineering Hall 106B3

Run Times: Friday -9:30/10:15/11:00/11:45/12:30/1:15/2:00/2:45/3:30 Saturday -9:30/10:15/11:00/11:45/12:30/1:15/2:00/2:45





EVENT HIGHLIGHTS

TRAFFIC AND SAFETY

Engineering Open House works hard to ensure the safety of our visitors. We ask that you not enter the rooms and buildings not marked for EOH use as indicated in the Visitor's Guide. Additionally, please follow standard safety precautions with special consideration for campus construction sites. For the safety of yourself and others, please cross at the designated crossings when walking on the campus. Thank you!

SHUTTLE AND PARKING

In order to make your visit to EOH more relaxing, parking at EOH is free. **Please park your vehicles at the E-14 parking lot along Kirby Ave.** The EOH Shuttle-- Operated by Peoria Charter Coach Company-- will run every 15-20 minutes during EOH hours.

•Circle Drive in front of the ACES Library

- Green and Wright
- •Kenney Gym (Springfield Ave.)
- •Goodwin Ave. and Green St.
- •Gregory Dr. and Goodwin Ave.
- •Sixth St. and Pennsylvania Ave.
- •Biomedical Magnetic Resonance Facility

A tour guide will introduce the University campus to the visitors during rides, and EOH visitor's guides will be provided in the EOH shuttle. School buses can drop off visitors on Wright Street, between Talbot Lab (just north of Green St) and Stoughton St. All buses must park in the E-14 parking lot.

FOOD AND ENTERTAINMENT

Engineering Open House is proud to present the Oasis, food and entertainment central! The Oasis is conveniently located between **Engineering Hall and Everitt Lab**, right across the street from the Illini Union. Here, you will be able to grab a bite to eat and enjoy entertainment by U of I's own student groups. So take a moment to stop by, relax, and recharge!

Operating Hours: Food, beverage, and entertainment: 11:00 a.m. to 2:00 p.m.

Friday, March 12: 11:45 - 12:20 p.m. Chai Town 12:30 - 1:05 p.m. I-Pan 1:15 - 1:50 p.m. I-Pan Saturday, March 13: 11:00 - 11:35 a.m. Illini Contraband 11:45 - 12:20 p.m. Illini Contraband 12:30 - 1:05 p.m. 3 Spot 1:15 - 1:50 p.m. Girls Next Door

A Short History of Engineering Open House at UIUC

The Open House is the result of over a century of evolution. At the dawn of the 20th century, it became the policy of various departments to sponsor shows and open houses at which time the students and faculty would collaborate on demonstrations and lectures. In 1906, the Department of Physics held its first annual Open House, becoming the precedent and inspiration for the present-day Engineering Open House. This showing of departmental equipment was held in the laboratories of Engineering Hall, where the Physics Department was located at the time. The exhibits centered around light, sound, wireless telegraphy, and other electrical operations, featuring lectures on the principles involved.

In the later years, from 1938 to 1942, the tendency was to demonstrate more of the University's equipment and student work, thereby diminishing the commercial flavor. Most had a serious purpose, seeking to illustrate some of the latest advances in electrical engineering (though a few were purely for the purposes of showmanship). In the fall of 1914, a few years after the first E. E. show, members of the Student Branch of the American Society of Mechanical Engineers acted as hosts at the first annual Mechanical Engineering Open House. Some two thousand people representing all departments of the University passed through the displays of student work and demonstrations of machines in operation, and heard talks on subjects concerning the popular machines of the day.

EOH 2010

Friday, March 12:9 AM - 4 PM

Saturday, March 13:9 AM- 3 PM

Visitor Booths

The EOH Visitor Booths can be found in the following locations:

•Digital Computer Lab: Atrium •Engineering Hall: Main Hallway •Engineering Quad: North side, next to Grainger Library

Be sure to pick up your EOH 2010 merchandise, including this year's t-shirt, at the Visitor Booth located outside.

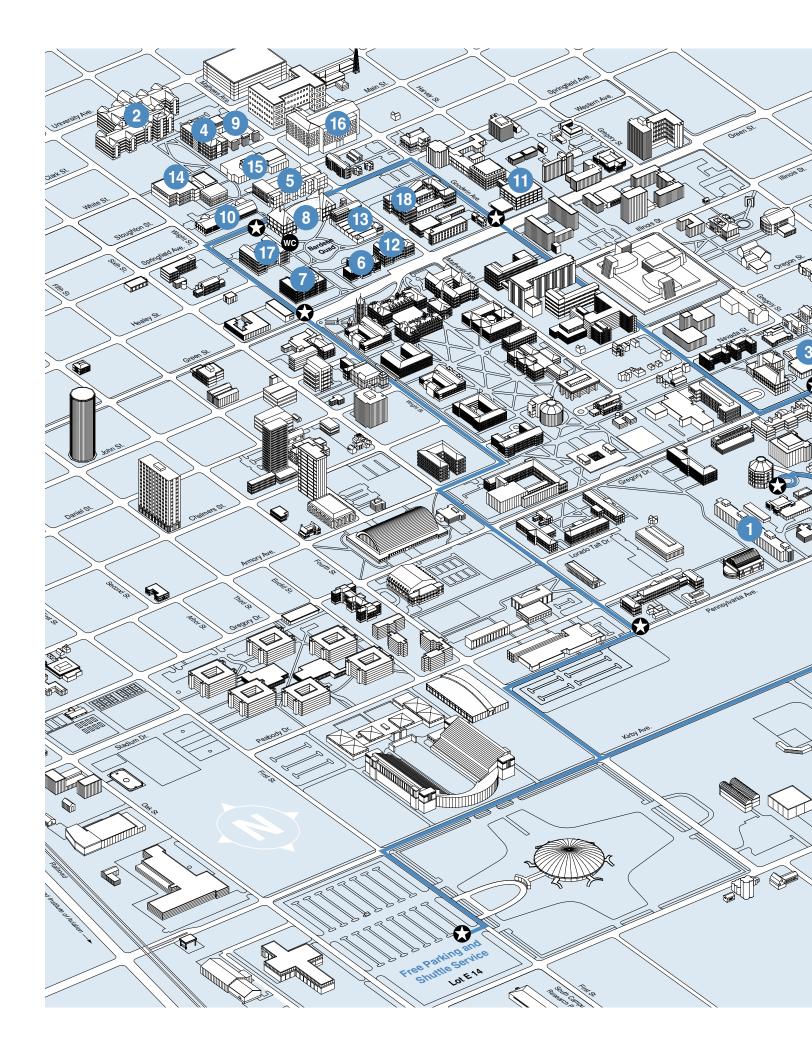
Questions? Talk to volunteers at the visitor's booths or commit-tee members with name tags.

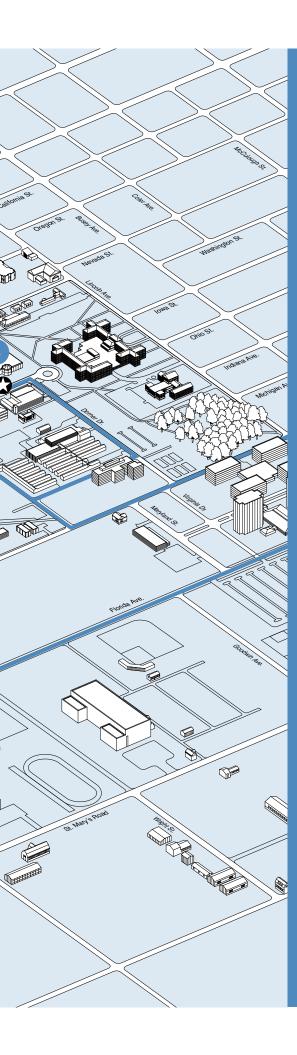
Tours@Engineering Campus

Learn more about departments and research. Take advantage of your time here and embark on a guided tour. Tours are led by current engineering undergrads and end with a Dean's Information Session.

Tours leave from Visitor's Booth on the **west side of Grainger Library** at the following times:

Friday: 10AM/12PM/2PM/3PM Saturday: 10AM/12PM/2PM Prior registration not required





Engineering Open House

Building Guide and Shuttle Route

- 1 Agricultural Engineering Sciences Building
- 2 Beckman Institute
- 3 Campus Recreation Center East (High School Design Contest)
- 4 Coordinated Science Laboratory
- 5 Digital Computer Laboratory
- 6 Engineering Hall
- 7 Everitt Laboratory
- 8 Grainger Engineering Laboratory
- 9 Hydrosystems Laboratory
- **10 Kenney Gym & Annex** (Jerry Sanders Design Competition)
- **11** Loomis Laboratory
- 12 Materials Science & Engineering Building
- **13** Mechanical Engineering Laboratory
- 14 Micro & Nanotechnology Laboratory
- **15** Newmark Laboratory
- 16 Siebel Center
- **17 Talbot Laboratory**
- 18 Transportation Building

Welcome Center

Shuttle Stop

(Shuttle runs every 15-20 minutes, Friday, 9 a.m. to 4 p.m., and Saturday, 9 a.m. to 3 p.m.)

Not Shown on map: Shuttle route continues on to Biomedical Imaging Center before returning to E-14 Parking lot. **Welcome** to the 90th Engineering Open House at the University of Illinois at Urbana-Champaign. This event has been a part of the Engineering at Illinois tradition since 1907 and has been an annual event since 1952. Each year, thousands of visitors converge on the Illinois campus to see and learn about all aspects of engineering and how it affects every facet of our lives. The exhibits reflect the interests, creativity and passion of students across all engineering disciplines. Every visitor will have the opportunity to learn about the engineering behind everyday items, see new technologies, and experience the wonders of engineering. We encourage you to ask questions and participate in all aspects of Engineering Open House.

This year we have created two new aspects to Engineering Open House. EOH Mobile is a mobile website designed for the iPhone, Android, Palm, Blackberry, and other mobile devices. It offers up-to-the-minute information about our exhibits, locations, and EOH announcements. To access this website, please visit http://eoh.illinois.edu/mobile. For our many supporters of EOH who can't make it back to campus, we have created EOH Live! – an online, live video stream of the best parts of Engineering Open House. Many videos from the two days of EOH will be available for on-demand viewing after EOH too – check the EOH Live website for more information – http://eoh.illinois.edu/live.

Engineering Open House is organized by a central committee under Engineering Council (EC), a student organization that works to enrich the engineering experience through a distinctive array of programs of services. Information about EC programs can be found at http://ec.illinois.edu. For more information about the College of Engineering, please visit http://engineering.illinois.edu.

Thank you for visiting Engineering Open House. Sincerely, Gavin Rehkemper Director, Engineering Open House 2010

EOH 2010



Engineering Open House 2010 Central Committee

Engineering Open House Director Secretary/Treasurer Junior Corporate Director Grade School Design Contest Director Director of External Marketing Director of Visitor's Information Director of Traffic & Safety Creative Design Director Webmaster Gavin Rehkemper Parag Zaveri Mike Driscoll Ann Pan Jimmy Kryger Stanley Chang Stephanie Graves Doug Litteken Allen Huang Director of Exhibits Senior Corporate Director High School Design Contest Director Jerry Sanders Design Contest Director Director of Internal Marketing Director of Facilities & Equipment Director of Judging & Awards Social & Entertainment Director

Kelsey Erickson Brian Chae Andrew Zwicky Jon Hansen Perri Kofkin Palak Doshi Mark Persaud Emily Carroll

23rd Annual AMD W.J. "Jerry" Sanders Creative Design Competition

College students from around the world come to participate in the 22nd Annual AMD W.J. "Jerry" Sanders Creative Design Competition, a two-day contest of robotic design and engineering. This year, teams will need to move a weighted, air-filled balloon to play a large game of tic-tac-toe. Instead of Xs and Os, teams will play with colored balloons. Each team will be assigned a colored balloon to score with. To get their balloons, a team will first have to 'unlock' their balloons from a cage. Once released onto the field, teams can score by placing it into a box. Once scored in, the box will remain under the team's control until another team takes control by scoring in that box.

Scoring:

Points will be awarded for releasing balloons and scoring in a box. Additional points will be awarded if a team gains control over an entire 'line' in the tic-tactoe grid. Points will be taken away for popping the balloons.

"Jerry" Sanders III graduated from the University of Illinois at Urbana-Champaign in 1958 with a Bachelors of Science in Electrical Engineering. Since then, he's gone on to start one of the most successful companies of our time.

W.J. "Jerry" Sanders III co-founded Advanced Micro Devices (AMD) in 1969. Under his leadership, AMD grew from being a "second-sourcer" of other companies' products to its current position as the fourth largest semi-conductor manufacturer in the United States.

Sanders also co-founded several prominent industry groups, including the Semiconductor Industry Association, the Santa Clara Manufacturing Group, the Semiconductor Research Corporation, and the Microelectronics and Computer Technology Corporation.

The Wall Street Transcript named Sanders the Best Chief Executive Officer in the semiconductor industry for the years 1983, 1984, and 1985, and runner-up in 1991. Mr. Sanders received the Robert N. Noyce Award from the Semi-conductor Industry Association (SIA) in 1998. In 2001, he received the Medal of Achievement for the AeA, the nation's largest high-tech industry association.

Sanders' continued support for the University of Illinois, and in particular this design contest, is a testament to his support for education and competition, both of which he thinks breeds success, creativity, and excellence.

W.J. Sanders III Founder and Chairman Emeritus of Advanced Micro Devices, Inc.

Special Thanks

The EOH Central Committee would like to thank:

Angie Dimit **Kay Kappes** Kalev Leetaru **Greg Larson** Rick Kubetz Ketty Duvall James Vattano **Russ Schmalz** Jerry Rabbitt Charles Tucker III Eric Thome **Oasis Performers** Illini Tours City of Urbana City of Champaign Parking **Champaign County Tents Special Events Planning Committee**

Dana Tempel Chris Holt Rich Holm Tamara Ingram Sarah Zehr Corporate Sponsors F&G Sound Illini Union Board





Location and Time:

March 12 (9AM-4PM) , March 13 (9AM-3PM) Kenney Gym Annex University of Illinois at Urbana-Champaign

Schedule:

Competition will take place from 9 am to 4 pm on both days with final rounds starting around 1 pm on Saturday, March 13th.

There will be rounds running at all times with bonus rounds and even crowd participation events spaced throughout the day. Towards the end of the competition on Saturday there will also be a demolition round where teams fight to have the last functional robot standing!

W.J. "Jerry" Sanders Creative Design Competition Committee

Director: Jon Hansen Rules Chair: Jack Pritz Field Chair: Luke Zaczek Publicity Chair: Joel Spadin Faculty Advisor: Dan Mast Treasurer: Ross Wolf Teams Coordinator: Chloe Sevilla Programmer: Nishit Sharma Webmaster: Brendan Neunaber Mechanical Design Officer: Duane Bertels

Check out the photo gallery on our website for interesting pictures of the competition. You can find us at http://dc.ec.uiuc.edu

We welcome all feedback and suggestions! If you would like to contact the Jerry Sanders Design Committee, please email us at: eoh-jerrysanders@ec.uiuc.edu



EXHIBIT ACM - SIG Embedded Acoustic Fax Machine Acoustics Music Player Advanced Ceramics Air cannons for use in Agriculture and Forestory Alpha Epsilon Alpha Omega Epsilon Alternative Diesel Fuels for Off-Road Equipment American Concrete Institute (ACI) Anchors Aweigh Animal Welfare and Environmental Systems AREMA Art and Engineering Design ASCE ASCE- Balsa Wood Competition

Biodiesel Initiative BIOE: Frontiers of Medical Care Bluewater Ampworks Breakfast With SWE Bridge to China - Helping Paomaping Bubble Room Physics

Career Opportunities in Agricultural and Biological Engineering Chaos Vs Order Chemical Engineering at the U of I Cloud Chamber CNC Machining Concrete Canoe Concrete Crushing Corn Stalk Counter Cross Compiling a Linux System Curvature

Depth Camera Distracted Driving

Egg Drop Electric Mountain Board Electronic Materials Enzymes in Food Processing and BioSensing Ever seen the bottom of the Ocean?

Ferrofluid Cymatics Ferrofluids Festo - Air motion ride Flight Simulator Float Your Boat Fluid Powe Fluids Lab Demonstration Frantic Elevator 2 Frozen Treats!

Galactic Strategy Game Gamebuilders Minigames

Hambot: Machine vs. Nature Hands-On Hydrologic Model Hexapods Hidden Waters Hydrogels

iFoundry and iEFX IGVRT Autonomous Robot Illiac III Supercomputer Redux Illini Entrepreneurship Network Illini Prosthetics Team Illini Pullers Illinois Biodiesel Initiative Illinois Electric Vehicle Club Illinois Student Branch of ASABE Ink Integrating Fun and Robotics Interactive Carbon Cycle Interference Room ISGE ITE

Keyless Dorm Entry

Laser Property - Protection Fence Left 4 Dead Kill Counter Light Up My Life Liquefaction Tank Liquid Nitorgen Table

SOCIETY ACM

ECE ACM Material Science Department Of Ag And Bio Engineering Department Of Ag And Bio Engineering College of Engineering Department Of Ag And Bio Engineering ASCE Illinois Society of General Engineers Department Of Ag And Bio Engineering ASCE iFoundry CEE/ASCE CEE-ASCE

Biodiesel Initiative BMES and Bioe Department ECE Society of Women Engineers Wu Zhi Qiao (Bridge to China) Charitable Physics Society

Agricultural and Biological Engineering Computer Science AIChE Physics - Physics Society Society of Women Engineers ASCE Society for Experimental Mechanics Agricultural and Biological Engineering Linux Users Group UIUC ACM SIGGRAPH

FCF American Society of Mechanical Engineers

Gamma Epsilon ECE Material Advantage Agricultural and Biological Engineering IAHR/IWRA

Theta Tau Material Science CCEFP NOBE CCEFP Society for Experimental Mechanics ACM Gamebuilders Illinois Space Society

ACM Gamebuilders ACM Gamebuilders

CS, Psychology, EE IAHR & IWRA Pi Tau Sigma (MechSE) IAHR/IWRA Material Advantage

iFoundry Intelligent Ground Vehicles Robototics SIGArch Illini Entrepreneurship Network Illini Prosthetics Team Agricultural and Biological Engineering Engineers Without Borders UIUC Illinois Electric Vehicle RSO Agricultural and Biological Engineering ACM Gamebuilders Women in Engineering Agricultural and Biological Engineering Physics - Physics Society ISGE CEE - ASCE

ECE

IEEE IEEE WECE GESO Physics - Physics Van

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Observe Cosmic Particles From Space Optical Materials

Penny Smasher Photochromic Materials Physics Van Lecture Demos Piezoelectric Materials Plasma Arc Speakers Plasmas: Not Just Science Fiction Polymer Slime Polymers Processing Portable NES Power and Energy Systems Puzzle Game

Robot Communications Rube Goldberg Society Running Water Sluice

SAE Baja Sand Casting SEA Shape Memory Materials Shifting Into Gear Shuttle Tile SIGBot 2D Inverted Pendulum SIGBot Quadrocopter SIGMusic Smoke Ring Launcher Society of Automotive Engineers Society Of Manufacturing Engineers Soil and Water Resources Laboratory Solar Car Solar Cells and other Energy Materials Solar Room Squiggly River Boat Race Challenge Standing Water Waves Steel Bridge Stellar Jockeys Stored Energy Solar Cooker Straw Rockets Student Sustainability Committee

Tactical RPG TAM Toys and Nonlinear Dynamics The Amazing Underground World of TARP The Guatemala Water Project The Hazards of the Modern Spillway The Tale of Heavy and Light The World of Nuclear Power Trebuchets Tunneling Proxy over DNS Packets

Van De Graaff Generator

Water Container Challenges Water for the People WCS TechTeam Wheeling High School STEM Team Wind Energy used for Mechanical Work Wind Tunnel

SOCIETY

Institute of Industrial Engineers Danville High School Material Science Material Advantage Material Science Material Science Material Advantage American Society Of Mechanical Engineers Material Science ACM Gamebuilders Material Advantage ACM Webmonkeys ACM Gamebuilders ECE (ADSL) MacWarriors

CABER Women in Aerospace Project Q ACM Gamebuilders Engineering Outreach Society Material Science National Society of Black Engineers Engineers Without Borders

Agricultural and Biological Engineering Material Science

American Society of Mechanical Engineers Keramos Physics - Physics Van Material Science Project Q NPRE, ANS Material Science Material Advantage

Power and Energy Group, ECE Dept ACM Gamebuilders

Agricultural and Biological Engineering Rube Goldberg Society IAHR/IWRA

MechSE Pi Tau Sigma (MechSE)

Material Science Physics - Physics Society Illinois Space Society ACM ACM ACM Society for Experimental Mechanics Society of Automotive Engineers MechSE Agricultural and Biological Engineering Solar Car Club Material Science Physics - Physics Society IAHR/IWRA IAHR/IWRA CEE-ASCE ACM Gamebuilders Engineers Without Borders Illinois Space Society SSC

ACM Gamebuilders Society for Experimental Mechanics IAHR/IWRA WaterCAMPWS IAHR/IWRA IAHR/IWRA NPRE ANS Society for Experimental Mechanics Linux Users Group

SHPE

IAHR/IWRA Engineers Without Borders Women in Computer Science

American Society of Mechanical Engineers AIAA

Talbot Laboratory

Integrating	know	ledge,
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Agricultural and Biological Engineering Sciences Building

Alternative Diesel Fuels for Off-Road Equipment

Agricultural and Biological Engineering

The engines and fuels lab has been instrumental in the analysis of alternative fuels in diesel engines. Fuels such as E-diesel and biodiesel have been produced, analyzed, ing are also measured. and run through engines, testing the effects on the engines and the environment. The tour will provide visitors a chance to Soil and Water Resources Laboraview research being conducted into the use of alternative fuels for diesel engines.

Animal Welfare and Environmental

Systems

Agricultural and Biological Engineering

Animal Welfare and Environmental Systems Laboratory. What do we do? Look at the systems where animals are housed, testing animal preferences for housing conditions, and measurement of environmental conditions within animal housing facilities.

Corn Stalk Counter

Agricultural and Biological Engineering

Seed companies require a consistent count **Agricultural and Biological Engineering** of germinated corn plants in experimental fields. This machine uses four laser beams that are interrupted by corn stalks, but also by corn leaves and weeds. A smart filtering mechanism distinguishes the corn stalks that enables reproducible acceleration of a from other objects and counts the plants test object. The working of the air cannon accurately. Corn stalk diameter and spac-

torv

Agricultural and Biological Engineering

The Soil and Water Resources Laboratory focuses on understanding the role of natural ecosystems in agriculture. The lab designs systems to control soil erosion and flooding, develops irrigation systems, consults on crop nutrition management, and designs ways to handle stormwater and control sediment.

Air cannons for use in Agriculture and Farming

Air cannons are used for various purposes in agriculture such as a "puncher-planter", and for general safety testing. The air cannon contains a unique piston mechanism will be explained along with a demonstration.

Digital Computer Laboratory

Alpha Epsilon

Agricultural and Biological Engineering

Alpha Epsilon is an honor society for outstanding biological and agricultural engineers. The objectives are to promote the high ideals of the engineering profession, to give recognition to those biological and agricultural engineers and to encourage such improvements in the biological and agricultural engineering profession. Location:West Atrium



Congratulations to the Illinois Engineering students on your 2010 Open House!

Consistently rated as one of the most admired companies, John Deere is on the leading edge of dynamic global growth. As a Fortune 500 company, the key to our success is finding the best people to make it happen.

If you're ready to run with the best apply online today!







Biodiesel Initiative

Biodiesel Initiative

oil from the campus dining halls into fuel for the campus fleet. Location: West Atrium

BIOE: Frontiers of Medical Care

BMES and Bioe Department

Bioengineering is the application of engineering principles to address challenges in the fields of biology and medicine. This years display will include human-machine interface for flight control of aerial vehicles, a functioning prototype of sub 100 dollar emergency diagnostic device, computerized medical training dummy.

Location: Atrium

Career Opportunities in Agricultural and Biological Engineering

Agricultural and Biological Engineering

Agricultural and Biological Engineers solve engineering problems related to living organisms and systems. Careers are available in bioprocessing, renewable energy, water and air quality, food production systems and other areas. Employment is available in industry, government and academics. Location: West Atrium

Enzymes in Food Processing and BioSensina

Agricultural and Biological Engineering Enzymes are proteins that are efficient catalysts for biochemical reactions. They speed up reactions by lowering the acti- Net-based AD/Photobioreactor Sysvation energy of a reaction pathway. They tem are widely used commercially in the detergent, food and brewing industries. Recently, enzymes have been used in producing biosensors to measure sugar and alcohol content of foods.

Location: West Atrium

Illini Pullers

Agricultural and Biological Engineering Illini Pullers will be displaying their newest design along with an older tractor. Location: 1st Hall

Illinois Student Branch of ASABE

Agricultural and Biological Engineering

The Biodiesel Initiative is a student led or- Visitors will be given the opportunity to ganization that converts used vegetable talk with members about club experiences, opportunities through the club and ASABE, and about being a member of the Agricultural and Biological Engineering department.

Location: West Atrium

Integrating Fun and Robotics

Women in Engineering

Campus Middle School and Illinois Outreach Programs: Integrating Fun and Robotics, Deriving the Technologists of Tomorrow! At Campus Middle School for Girls in Urbana, University of Illinois engineering students volunteer to "coach" an afterschool Lego Robotics Club. Using a motorized kit, sensors and Lego pieces, teams construct a robot to complete challenges on a standardized gameboard. Challenges include picking up objects, navigating to specific locations and collecting items.

Location: East Atrium

Interactive Carbon Cycle

Agricultural and Biological Engineering

In the BioMASS lab, we use models to help analyze how a complex system works. In this interactive game, become part of a carbon cycle model.We'll show how a complex system model works, and why little changes in the way we use fossil fuels can make a big difference to global warming. Location: West Atrium

CABER

A network-based anaerobic digester/photobioreactor system which allows for the conversion of organic waste into electricity and algae biomass for biofuels production.

Location: Central Atrium

Observe Cosmic Particles From Space

Agricultural and Biological Engineering In the cloud chamber alcohol is vaporized and drawn to a dry-ice cooled metal plate. The alcohol is

super-saturated and when alpha particles pass through the vapor, they ionize the alcohol molecules and form condensation trails. In buildings, the arrangement can also make Radon particles visible. Location: West Floor 1

Robot Communications

Agricultural and Biological Engineering

This exhibit will demonstrate how multiple robots communicate with each other in a areenhouse.

Location: West Floor 1

Wheeling High School STEM Team

High school students from Wheeling High School in Wheeling, Illinois are presenting their work from the STEM (Science Technology Engineering and Math) Team project. Students are working on researching, designing, and fabricating a working wind turbine to be installed at Wheeling High School and will present on their research and process.

Location: West Atrium

Engineering Hall

Art and Engineering Design iFoundrv

We are the Art and Engineering Design Team, part of iFoundry. Through opportunities in society, academics, the world of work, and service, along with a special emphasis on the intersection of art and applied science, we strive to highlight the importance of the missing basics in engineering education. Our EOH presentations will be design projects that we have been working on this past semester, which include design improvements on the traditional mouse trap and an improved bicycle basket.

Location: 112

Bridge to China - Helping Paomaping Wu Zhi Qiao (Bridge to China) Charitable

We are the Illinois Bridge to China Team, the first international group stemming from the Wu Zhi Qiao Charitable Foundation, based in Hong Kong. Our aim is to build a safe and sustainable footbridge for the villagers in Paomaping Village, China.



During the summer, the rainy season floods Rube Goldberg Machine the village's current bridge, preventing The Rube Goldberg Society has built a ma- ECE schoolchildren from going to school and villagers from commuting and selling their goods in the major markets. We are here to change that.

Location: Main Hall

Float Your Boat

NOBE

Students are given a specific amount of fake money to purchase different items such as balloons, cardboard, string, and tape to make a small boat. There will be two ways to show off their boats, in a speed competition as well as a weight competition. The exhibit will be fun and challenge kids creativity to come up with the best designed boat.

Location: 106B8

Illinois Biodiesel Initiative

Enaineers Without Borders UIUC

The Illinois Biodiesel Initiative is a project focused primarily on lowering the emissions of the university and promoting education of renewable fuel sources. Our team is striving to ensure that the Illinois Biodiesel Initiative becomes a model for university and community biodiesel production. Our goal, to create a campus biodiesel processor to convert used cooking oil from the dining halls into a usable fuel for the campus, was conceived in the spring of 2006. At the present time, 300 gallon batches are reacted weekly and then integrated into the campus diesel supply, located at the Garage and Car Pool facility. Location: 106B1

Marble Sorters

Danville High School

Using RoboPro and Fishertechnicks, students in Principles of Engineering, a Project Lead the Way class, have designed and built their own device to sort a group of 2 different colored marbles into separate Depth Camera bins.

Location: 106B6

NSBE

National Society of Black Engineers

NSBE is going green! At our exhibit, see hands-on examples of alternative energy. Location: 103A

chine to dispense hand sanitizer. A Rube Come check out the electric mountain Goldberg machine contains many small board that combines lithium iron phossteps that accomplish a big task. Examples phate batteries, brushless motors, regenof this include dominoes, mouse traps, and erative braking, microcontrollers, and wiremagnets, all working together to dispense less control. It will be the lightest, greenest, hand sanitizer. The machine is themed after Willy Wonka's Chocolate Factory, containing all kinds of gizmos from the movie. Location: 106B3

Student Sustainability Committee SSC

The SSC is responsible for allocating two student fees: the \$5.00 Sustainable Campus Environment fee and the \$2.00 Cleaner Energy Technologies fee, towards sustainable campus projects. The committee will be displaying example projects that have Frozen Treats! been funded in the past.

gineering Building

Everitt Laboratory

Acoustic Fax Machine ECE

What would it take to build a fax machine using little more than your sound card? A non-engineer applies the Engineering Design Algorithm to the problem. After weighing several tradeoffs, not only a scanner, but a full-blown (acoustic) wireless fax machine is constructed! Location: 245

Bluewater Ampworks ECE

A demonstration and discussion of vacuum tube guitar amplifiers Location: 241

ECE

Exhibit will demonstrate some of the new applications in image and video process- of your score while you fight off hordes ing utilizing a camera that captures the of Zombies in the popular PC game Left depth of a scene.

Location: 169

Electric Mountain Board

and coolest way to get around campus. Location: 169

Ferrofluid Cymatics Theta Tau

A demonstration of Ferrofluids in a new and interactive way. Using music as input, we will manipulate the sound waves generated to drive an electromagnet to make the ferrofluid "dance" to the music. Location: 151

Illinois Space Society Location: Moved to Material Science & En- Assorted Liquid Nitrogen dipped treats. Location: 170

Keyless Dorm Entry ECE

Tired of lugging your dorm room key around with you when you run down to lunch or over to ARC? What would it take to convert your lock to accept key pad or I-Card entry? A UIUC freshman decides to tackle the problem with a limited budget and obtains spectacular results! Location: 245

Laser Property - Protection Fence IEEE

A low- cost property-protection device provides a laser beam perimeter that when broken by an intruder, it will sound an alert or an intrusion deterrent. It consists of a laser beam generator, optical detector, controller and front surface mirrors to reflect the beam around the perimeter. Location: 163

Left 4 Dead Kill Counter IEEE

The Kill Counter allows you to keep track 4 Dead. Your kills are displayed on 7-Seqment displays which is controlled by a microcontroller.



The microcontoller communicates with Van De Graaff Generator the PC running a modified version of Left SHPE 4 Dead.

Location: 163

Light Up My Life

WECE

Life exists in time. A fun way to keep track of time can definitely light up your day. globe on the top of the stand. Our project is an awesome little clock Location: 151 that shows time without clock hands or digital numbers, instead it uses light and shadow. It works like an improved sundial, with three hands instead of just an hour hand, each given as a shadow from color-

ful LED's. Location: 143

Night Vision Viewer

Project Q

Using LED's and Infra-Red, we have created a Night Vision Viewer. Location: 168

Plasma Arc Speakers

Project Q

Speakers using a electrical plasma as a radiating material. It is done by ionizing the gaseous material between two electrodes and using the vibrations to create sound. Location: 168

Power and Energy Systems

Power and Energy Group, ECE Dept

This exhibit contains a number of projects demonstrating some exciting aspects of power and energy systems. Projects include a magnetic ring cannon, floating frying pan, automatic Etch-A-Sketch, and many more! Location: 50

Shuttle Tile

Illinois Space Society

Demonstration of how the tiles on the Running Water Sluice space shuttle protect the space craft from the high temperatures of re-entry to Earths

atmosphere.

Location: 170

Straw Rockets

Illinois Space Society

Construct paper rockets and propel them als you find. at a target via target. Location: 170

Demonstration of a Van De Graaff generator and its incredible hair raising properties. A Van De Graaff Generator is an elec- Squiggly River Boat Race Challenge trostatic generator which uses a moving IAHR/IWRA belt to accumulate very high electrostatically stable voltages on a hollow metal

Hydrosystems Laboratory

Ever seen the bottom of the Ocean? IAHR/IWRA

Come visit this exhibit and virtually dive down to the bottom of the ocean. Discover for yourself the interesting currents and bed forms present beneath the waves during a storm.

Location: 1504

Hands-On Hydrologic Model IAHR/IWRA

In this hands-on model one can explore how the power of water shapes the topology of our earth. Come design your own landscape and see how water works its magic using rain, rivers and groundwater. Location: 1504

Hidden Waters IAHR/IWRA

Do you know that water is moving all the feet? Don't miss your opportunity to see IAHR/IWRA first hand from physical and computer This demonstration examines incredible models some of the processes in ground- flow dynamics as water overtops a spillwater flow which include well pumping, way as well as the dangerous turbulent surface water interaction, and contamina- hydraulic which generated downstream of tion transport.

Location: 1504

IAHR/IWRA

sediment from gems and minerals. Learn rule of physics. Come and see how density around the sediment transport physics flows generate a river under the Chicago which makes this possible as well as infor- River in Chicago, Illinois. mation about the rocks, gems and miner- Location: 1504

Participants will be able to keep the gems they find to start their own collections! Location: 1504

Meandering rivers transport both water and sediment. The understanding of their physical processes are important for human-nature interaction and preservation. Come learn and then play "Boat Race Challenge" in which participants will be able to build and race their own aluminum foil boats.

Location: 1504

Standing Water Waves IAHR/IWRA

Have you ever seen what water waves look like when they fully reflect from a beach? Come visit our giant water wave tank and see first hand the peculiar wave patterns and the resulting sand bed forms! Location: 1504

The Amazing Underground World of TARP

IAHR/IWRA

Have you ever seen a 30 foot wide tunnel that is 300 feet underground?Come discover the complex and intriguing Tunnel and Reservoir Plan (TARP) of the greater

Chicago area. Location: 1504

time in the ground underneath our very The Hazards of the Modern Spillway

the structure.

Location: 1504

The Tale of Heavy and Light IAHR/IWRA

Step back in time and try your skills at Heavy things sink and light things float. become a 1849 Gold Miner and separate Mother Nature is a master on this basic



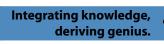
What if... you did something to

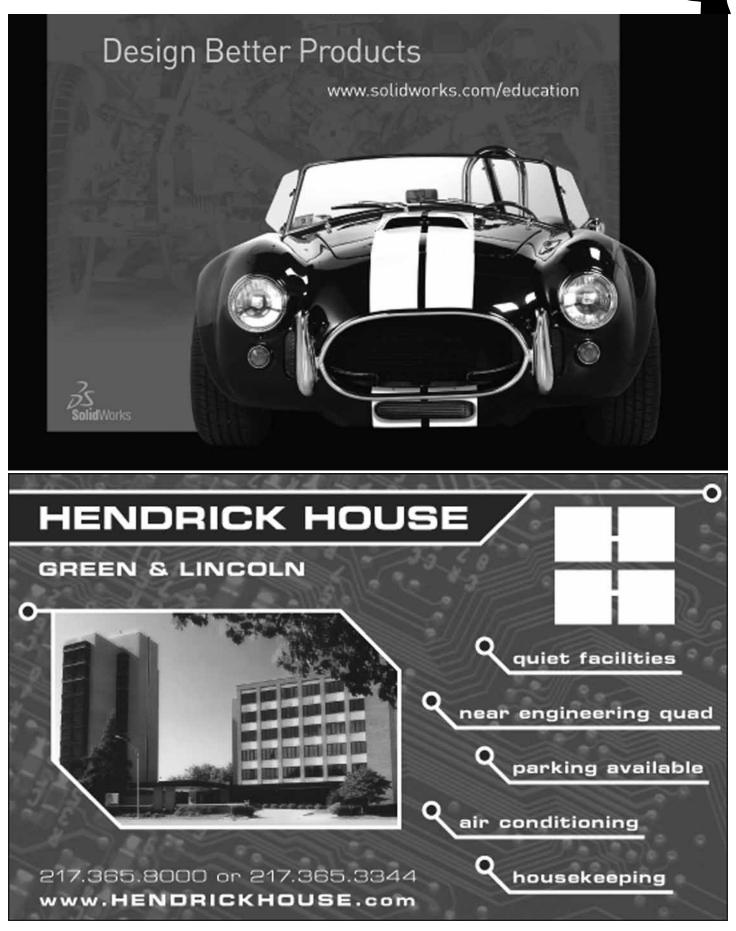
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Water Container Challenges

IAHR/IWRA

Challenge 1: Have you ever stopped and observed how water drains out of a hole near the bottom of a tank of water? In this challenge, see if you have what it takes to determine which container will drain faster. Challenge 2: Have you ever heard the riddle," You have 3 gallon bucket and a 5 gallon bucket and you need to measure exactly 4 gallons of water?" Come test your

skill against this water riddle. Location: 1504

Loomis Laboratory

Alpha Omega Epsilon

College of Engineering

Alpha Omega Epsilon is a professional and social engineering sorority. Location: Lobby

Bubble Room

Physics - Physics Society

Teach kids about the science behind bubbles. Location: 137

Chemical Engineering at the U of I AIChE

Ever wonder what Chemical Engineering is and what a Chemical Engineer does? Come find out and learn about Chemical Engineering at the University of Illinois. Location: Lobby

Cloud Chamber

Physics - Physics Society Check out the Cloud Chamber. Location: 136

Interference Room

Physics - Physics Society

Demonstrate the phenomenon of interference in a variety of interesting demos. Location: 143

Liquid Nitorgen Table

Physics - Physics Van

The Liquid nitrogen Table is a demonstration of what happens when various materials are subjected to extreme cold.

gaseous, liquid, and solid phases of matter, NPRE, ANS and the transitions between those phases. Ever wondered what radiation is, or how Come guess what will happen to bananas, a nuclear reactor works? Learn about nu-

320 dearees F! Location: Lobby

Physics Van Lecture Demos Physics - Physics Van

This annual favorite of EOH-goers presents some of the most fundamental concepts of physics in entertaining and educational ways. If you get excited about Einstein, Newton and Bernoulli, or if you just get a kick out of things blowing up, this is a show

you won't want to miss. Location: 141

Plasmas: Not Just Science Fiction

NPRE, ANS

What exactly is a plasma, and what can it do for me? Learn about the fourth state of matter, its properties, and its applications. Demonstrations will show the crushing power of magnetism and a low-tempera- able to float over. ture plasma.

Location: 151

Shifting Into Gear

Physics - Physics Society

pulleys, and, most importantly, gears. Location: 137

Solar Room **Physics - Physics Society**

The amount of energy provided by the sun is an awesome 1300 Watts per meter squared. Come explore the many fascinating different methods of drawing power from sun light. The demonstrations include a salt pond, a focused light boiler, and pho-spotlighting the incredible shapes and forto electric cells.

Location: 144

The exhibit explores the behaviour of the The World of Nuclear Power

balloons, and flowers when they reach - clear power, why it is important, and why it is safe. Demonstrations will show different radiation shielding methods and a model nuclear reaction with mousetraps and ping-pong balls.

Location: 141

Materials Science & Engineering Building

Advanced Ceramics Material Science

Ceramics are way more than just mugs and tea sets. Come and learn the inner working about superconductors such as why and how they work, where they are used, and future applications. We will have a demonstration that will use a length of "track" made up of neodymium magnets which a "train" containing a superconductor will be

Location: Main Hallway

Electronic Materials Material Advantage

Ever wonder what material science is go-In a world where tools and toys are be- ing on behind the screen? Our project will coming increasingly complex, lots of kids be on how electronic materials are related don't have as high of an appreciation for to movies. We will be looking at digital those simple machines which helped build cameras, projectors, TV screens, and lightour world. In this exhibit, kids can explore ing. We will also highlight how material through various activities the usefulness science plays a role in making 3D movies of wheel and axels, ramps, and levers along like Avatar, and talk about the new techwith the shift from these simpler tools to nologies in TVs. Throw in some of the guts more complex machines such as screws, of a digital camera/camcorder and you are sure to learn plenty at our exhibit.

Location: Main Hallway

Ferrofluids

Material Science

Do you know what a ferrofluid is? Interested in nanotechnology? Come learn what ferrofluids are and how they incorporate nano-scale ferromagnetic particles. We will have a ferrofluid demonstration container mations that ferrofluids can take.





Learn how electromagnets can provide as how they are applied in current technoloqy.

Location: Main Hallway

Hvdroaels

Material Advantage

We will be demonstrating the many medible, and how the degradation of hydrogels products. plays an important role in bio-compatibil- Location: Main Hallway itv.

Location: Main Hallway

Material Science of Toys Material Science

ourselves and teaching you how to make and is sure to be a hit with all the critics. one at home. By playing with certain material properties, we can show you how to really make it move.

Location: Main Hallway

Materials Challenge

Material Advantage

the Materials Challenge booth! We will and paperclips; and then testing them to order to build our knowledge. see which is the strongest. The strongest Location: Main Hallway composites will receive prizes, and everyone can learn how composite materials

achieve their superior properties. Location: Main Hallway

Materials Science in Sports Material Science

Many common sports equipment take advantage of material science. We will be displaying how material science can effect sport balls and why they are made of different materials. We will also be discussing the recent debate over new batting helmets for baseball players.

By dissecting the helmet and applying a Non-newtonian Fluids the driving force for these materials as well material science perspective, there is much Material Science to be learned about its durability. Location: Main Hallway

Materials Science of Food Material Science

Come to our exhibit to learn how material science plays a critical role in food processcally relevant functions of hydrogels such ing. We be making ice cream with liquid achieve these weird properties and how to as wound dressing applications and drug nitrogen to explore how material science make some for yourself at home. Don't fordelivery systems. We will also be explor- plays an important part in food preparaing the water absorbency and molecular tion, the effect of cooling, and melting exchange capabilities of a hydrogel. Come temperature. You will also be able to learn and learn how materials are bio-compati- the material science behind other food

Materials Show

Material Advantage

It's MatSE at the movies! After a walk down the red carpet of amazing projects and ex-Be sure to stop by as we discuss the mate- hibits, make sure to rest your feet in MSEB rial science behind some of your favorite 119 as we have the world premier of the toys. We will be demonstrating how a lava 2010 Materials Show. This unique movie lamp works with one that we have built will capture the essence of material science Location: 119

Mechanical Properties of Materials Material Science

The goal of our exhibit is to show you how materials are tested for mechanical properties such as strength and impact resistance. Think you have what it takes to make the We will be testing a wide variety of matebest composite? Come test your skills at rials and explaining how their properties make them good for applications ranging under our black lights! be making advanced composites out of from bulletproof vests to storage containhousehold items such as string, toothpicks, ers. Come watch as we destroy materials in

Metals Processing

Material Advantage

hibit to learn about various applications enough electricity to power a light bulb. metals have in material science. We will You can also learn how piezoelectrics are have a demonstration of the Indium-Gal- used in everyday objects such as grills and lium eutectic, and we will be examining electric guitars. how structural welds can affect the prop- Location: Main Hallway erties of metals in super-structures such as buildings and bridges.

Location: Main Hallway

Non-newtonian fluids are probably nothing like you have seen before. How can a liquid be both hard and soft at the same time? Come and see for yourself the strange properties of non-newtonian fluids at our hands-on demonstration. You will be able to learn how they are able to get to take home your very own sample of non-newtonian fluid too!

Location: Main Hallway

Optical Materials Material Science

Optical materials are seen in a wide variety of applications and have many uses in advanced technology. Come to our exhibit to learn how they are made, how they work, and where they are used. We will also be demonstrating how to make your very own

optical glass fibers out of Jolly Ranchers. Location: Main Hallway

Photochromic Materials

Keramos

Photochromic materials are ones that can change color in the presence of ultraviolet light. Come join us as we display a variety of applications for photochromic materials, such as transition lenses, and explain how they work. We will also be making color changing bracelets and testing them out

Location: Main Hallway

Piezoelectric Materials Material Science

Piezoelectric materials are able to produce a battery-like voltage simply by changing their shape. Come to our exhibit to learn Are you interested in metals? Visit our ex- how a small ceramic material can produce

Polymer Slime Material Science

Polymers are a unique class of material that can be used for many practical applications.





We will be making polymer slime bouncy You will also learn how shape memory UV. Different computer-connected test balls by various methods. You will learn materials have the promise to be used in a how polymers are formed and why they wide variety of common applications. exhibit their unique properties that make Location: Main Hallway them advantageous over other materials such as metals and ceramics.

Location: Main Hallway

Polymers Processing

Material Advantage

Come and learn how many of the plastics we use every day are made. Polymers processing has been crucial in the development of many modern technologies, and the understanding of polymers processing has made the realization of new products and technology possible. This project shows on a first hand basis how plastic

parts are shaped and formed. Location: Main Hallway

Shape Memory Materials Material Science

Shape memory have the amazing property that they can be deformed to any shape and return to their original form simply with the application of heat. Come to our exhibit to learn how shape memory materials work and try it for yourself.

Solar Cells and Energy Materials

Material Science

Are you interested in how solar cells work and how they can fit into our energy future? Come to our exhibit to learn how they can convert solar energy into a usable form as demonstrated through our mini solar powered car. You can also come and test your knowledge with out Jeopardy style review game and have the chance to win a prize.

Location: Main Hallway

Water for the People

Engineers Without Borders

of sand, cotton wool and pebbles, and then community. disinfect the resulting water with

probes and a microscope will allow visitors to perform tests to gauge the cleanliness of filtered and disinfected water, as well as tap water and water from local streams. Finally, we will have a 3-D working model of a borewell, solar pumping station and water distribution system, similar to a system implemented by an EWB Project in Enugu, Nigeria.

Location: Main Hallway

Mechanical Engineering Laboratory

Breakfast With SWE Society of Women Engineers

The Society of Women Engineers (SWE), founded in 1950, is a not-for-profit educa-Nearly 1 billion people across the globe tional and service organization. Come grab lack access to clean water. Technology to a free breakfast Saturday morning with the change that exists today. This exhibit will members of the Society of Women Engidemonstrate different technologies to fil- neers! Learn more about SWE, from it's role ter water and test its purity. Children will as a national organization to the Illinois be able to make their own water filters out section's activities on campus and in the



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CNC Machining

Society of Women Engineers

Society of Women Engineers (SWE) and neers the MechSE department will collaborate to Ever wonder how high speed magnetic parts using sand casting process. Visitors demonstrate how CNC machining works. levitation trains work? Come out and let will be able to create their own sand cast-We will manufacture some key chains at ASME explain how magnetic levitation ing molds from patterns created in the Ford the exhibit and pass out key chains that happens and watch us levitate a magnet Rapid Prototyping Lab and see a demonhave already been made. The key chains without using another magnet. Come see stration of the actual casting process. have a special SWE design.

Distracted Driving

American Society of Mechanical Engi- Fing neers

Come learn about the dangers of distract- The Tesla coil, invented by Nikola Tesla at from the 2008-2009 season. ed driving. Try your hand at a driving simulation while performing other distracting tasks!

Fluid Power

CCEFP

tures interactive demonstrations of the fessor Scott Wyatt and Mark Smart. amazing capabilities of fluid power and research that is being done at UIUC to improve fluid power. Come check out the Penny Smasher drivable mini-excavator arm.

Hexapods

Pi Tau Sigma (MechSE)

Visitors will be able to use robotic hexapods to race and complete a series of challenges on an obstacle course. They will also be able to learn about the real-life applications of the hexapods.

Illini Prosthetics Team

Illini Prosthetics Team

The Illini Prosthetics Team is a group of independent undergraduate students with the goal of producing an inexpensive prosthetic arm for use in underdeveloped countries. They will be demonstrating the latest developments in the design and implementation of their project.

Mechanical Magnetic Levitation

American Society Of Mechanical Engi- Pi Tau Sigma (MechSE)

the mechanical side of levitation!

ECE (ADSL)

the end of the 19th century, generates high voltages and was originally intended Society Of Manufacturing Engineers for wireless transmission of messages and MechSE energy. U of I alumnus Steve Ward, Jeff Lar- The Society of Manufacturing Engineers son, and staff member Mark Smart have (SME) seeks to provide its members with developed a system for modulating a Tesla educational, professional and social activicoil to produce musical tones. University ties and opportunities related to manufac-Have you ever wondered how an excava- professor Lippold Haken has developed a turing. Through its activities, SME hopes tor or other large machinery works? Then new electronic musical instrument called to foster members' engineering, commucome on by and learn about Fluid Power. the Continuum Fingerboard. The Tesla coil nication and leadership skills. The faculty Fluid Power is an important area of engi-system and Continuum Fingerboard will adviser to the group is Professor Michael neering as it can be used to precisely move be featured in a concert of several short L. Philpott. Our exhibit this year will showlarge loads, which is why many large con-pieces, including one composed for the case the car created by U of I students for struction vehicles use it. This exhibit fea- SEAMUS music society by U of I music pro- the Shell Eco Marathon.

neers

and vice to crush aluminum blanks into a sand and a smaller one with clear sides so penny shaped object with an Illinois "I" indentation on it. A guick demonstration and unique souvenir!

SAE Baja

MechSE

Baja is the off-road racing club at the University and completes the design, build, and race of a new off-road vehicle each year. Students get experience with research, design, Pro/Engineer, metal forming, tube fitting, welding, lathe, mill, EDM, teamwork, and much more. Over 100 teams, including international, compete for the top spot at competition in a range of events including design, cost, sales, maneuverability, acceleration, rock crawl, hill climb, and the always interesting 4 hour endurance event.

Sand Casting

Demonstrate process of forming metal

Society of Automotive Engineers Society of Automotive Engineers

Music With Tesla Coil and Continuum The UIUC Society of Automotive Engineers will be returning this year to showcase their Formula SAE and SAE Mini Baja cars

The Guatemala Water Project WaterCAMPWS

For the EOH exhibit, we would like to dem-American Society Of Mechanical Engi- onstrate how a biosand filter works and how our research will improve on the cur-This exhibit will use a precision cut die rent design. We will display a full scale biothat the public can see what is occurring within the biosand filter. Another module will demonstrate how the iron can remove certain contaminants based on surface characteristics. Lastly, children will have a chance to make their own mini biosand filter with a clear plastic bottle, gravel, and sand. Afterwards, we will pass dirty water through the filters to test how well they work.

> Location: Moved to Material Science & Engineering Building

Thank you for being a part of Engineering **Open House 2010!**

Trebuchets

Society for Experimental Mechanics

The Society for Experimental Mechanics has constructed several trebuchets (catapults) of different designs. They will be demonstrating the pros and cons of each design. Check out this exhibition of medieval machinery!

Wind Energy used for Mechanical Work

American Society Of Mechanical Engineers

Come out and learn about sustainable energy options and their applications. See our vertical axis wind turbine that will be used to do mechanical work, showing wind energy can be used for more than just generating electricity.

Newmark Laboratory

American Concrete Institute (ACI) ASCE

American Concrete Institute ASCE ACI-UIUC will have a hands-on demonstration of concrete mixing. Visitors can make their own concrete coasters. Strength tests of concrete will also be demonstrated during our yearly high strength concrete cylinder competition.

Location: Crane Bay

AREMA ASCE

Railroad Engineering Extravaganza Young Locomotive Engineers and Veteran Railroaders alike: come visit the Railroad Extravaganza, hosted by the UIUC Railroad Engineering Program. Participants will enjoy a variety of educational experiences including train dispatching demonstrations, a freight car display and model train layout hosted by the Illini Railroad Club, and research exhibits highlighting the ongoing world-class railroad engineering projects at Illinois. Students can also try their hand at the interactive Intermodal Transportation Game created by the AREMA Student Chapter.

Location: Crane Bay

U.S. News ranked the Agricultural, Civil, and Materials Science Engineering departments #1 in America for 2009.

The University of Illinois' College of Engineering is ranked the #4 Undergraduate Engineering Program in the U.S.

Some famous alumni from the University of Illinois' College of Engineering include YouTube co-founders Javed Karim and Steve Chen, Microsoft's Chief Software Architect Ray Ozzie, co-founder and CTO for Paypal Max Levchin, and co-founder and long time CEO of Advanced Micro Devices Jerry Sanders.

16 alumni and faculty have won the Nobel Prize, in addition to John Bardeen (professor of Physics and Electrical Engineering), who won the Nobel Prize in Physics twice.

College of Engineering

Transfer Student Information Center

Friday, March 12 Hours: 10:00 am to 4:00 pm 212 Engineering Hall (2nd Floor)

Engineering Advisors and Staff will be available to visit with students interested in transferring to the College of Engineering after attending another college or university. Continuing students who are presently attending the College of Engineering at the U of I and have transferred from another college or university will be available to visit with interested students and families. Information will be available about the transfer programs that we have with more than 50 community colleges and 25 four year schools that don't offer an engineering degree.

Refreshments will be available from 12PM to 3PM

See our new south campus home for our virtual reality tools including the CAVE™ and the Flight and Driving Simulators!



Beckman Institute for Advanced Science and Technology

Illinois Simulator Laboratory Open House

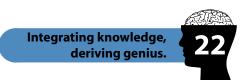
2100 S. Goodwin Avenue, Urbana

Friday, March 12 • 9AM - 4PM Saturday, March 13 • 9AM - 3PM

The Beckman Institute's Illinois Simulator Laboratory is embarking on a new era in its new south campus location and to celebrate they are hosting an open house. At the open house you can see an amazing array of highly advanced visualization environments including the CAVE*, and the Driving and Flight Simulators.

Driving directions: http://isl.beckman.illinois.edu/Drivingdirections/Drivingdirections.html

Parking is free in Lot E-14 with shuttle buses running every 15 minutes. Metered parking is available on Hazelwood Dr. (south of the Vet School) and in the lot on the west side of ISL. Meters are enforced on Friday, but are free on Saturday.* To see the CAVE you must obtain a ticket. Tickets for set times will be available at the door on a first-come, first-served basis.





Jerry Sanders Design Competition

Robots

Balloons

Precision Engineering

BE THERE.

March 12 9AM-4PM March 13 9AM-3PM

Kenney Gym

HEY, CENTUS

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Balsa Wood Competition CEE-ASCE

Competition. The purpose of this competition is to build a balsa wood bridge given Location: Crane Bay certain constraints with an emphasis on the greatest load to weight ratio. Location: Crane Bay

Concrete Canoe

ASCE

Design, build, and race a concrete canoe! Location: Crane Bay

Liquefaction Tank CEE-GESO

Sometimes an earthquake can be intense enough that sandy soils can lose their strength and become very soft. This happens when a loose, saturated sand under- SIG Embedded goes vibration and tends to collapse. The **ACM** collapse cause high water pressures to de- Special Interest Group Embedded speciala drastic reduction in the strength of the This year's project includes developing sand. When this happens buildings, bridge linux for an embedded AVR32 micro confoundations, and other structures can be troller with the further aim of turning it into damaged, or can even fall over! This exhibit is designed to show just how this happens in a way that everyone can understand! Location: Crane Bay

Illinois Electric Vehicle Club

Illinois Electric Vehicle RSO

Presentation of various electric vehicles. Location: Crane Bay

Institute of Transportation Engineers ITE Location: Crane Bay

Ntisaw Village Water Partnership Engineers Without Borders

This exhibit will provide insight into the process of creating a water catchment and distribution system for a rural community in Cameroon. Be prepared for hands-on demonstrations on hydraulics, water quality, and construction materials in addition to relevant cultural insights from West Africa.

Location: Crane Bay

SEA

Structural Engineers Association

ASCE is sponsoring a Balsa Wood Bridge Learn about structural engineering with the friendly members of SEA!

Steel Bridge CEE-ASCE

Students work together to design and fab- it up into a running system. ricate a large scale steel bridge. This bridge must be assembled and loaded at regional and national competitions. Location: Crane Bay

Siebel Center

velop within the sand, which in turn causes izes in embedded hardware and software. tion. a wireless mesh networking mp3 player.

Location: Atrium

Acoustics Music Player

Association for Computing Machinery People like music. Unfortunately, people like different types of music. The Acoustics Music Player brings a virtual jukebox to your room, office, or anywhere with speakers. Acoustics allows many people to vote on what music to play using their web browser and takes turns playing their music. Acoustics provides statistics on songs that are popular, recently played, recently Gamebuilders Minigames added, as well as integration with various ACM Gamebuilders dia.

Location: Atrium

Chaos Vs Order Computer Science

This is a game that you can play on your Come check out the Hamster Robot, which Android powered phone with your friends runs around in a hamster ball and builds or with complete strangers. Fight to bring a cognitive map of its maze and learns to order, or create chaos. Control the fate of the world with your actions all in the palm network) easily after the mental map is of your hand. Location: Atrium

Cross Compiling a Linux System

Linux Users Group

This year the Linux Users Group is hosting a series of workshops on how to build Linux from the ground up for non-Intel architectures. The workshop goes through building a compiler to build the Linux kernel and support utilities, and ultimately packaging

Location: Atrium

Curvature **UIUC ACM SIGGRAPH**

We all "fit" in somewhere. Computer animated 3D short film. UIUC ACM SIGGRAPH 2010

Location: Atrium

Festo - Air motion ride CCEFP

Pneumatically controlled race car simula-

Location: 1302

Frantic Elevator 2

ACM Gamebuilders

Elevator themed fun for the whole family! Control elevators in a building and get ev-

eryone where they want to go. Location: Atrium Video Wall

Galactic Strategy Game

ACM Gamebuilders

A Real Time Strategy game where players vie for control of planets. Location: Atrium Video Wall

web services such as last.fm and Wikipe- A 2D mini-game collection that's super fun!

Location: Atrium Video Wall

Hambot: Machine vs. Nature

CS, Psychology, EE

navigate through the maze (with a neural built. Hambot will be racing against real mice.

Location: 1304

Innovation Drives Our Success

From prevention and diagnosis to treatment and cure, Abbott is a broad-based health care company that discovers, develops, manufactures and markets innovative products. Abbott is committed to bringing together individuals with diverse backgrounds and ideas and investing in their success. Combining different perspectives, management styles and ideas makes us stronger. Abbott is continually building a culture that not only recognizes, but values, people's differences and makes the most of them. Having an inclusive environment helps drive our innovation and makes Abbott a stronger, more dynamic, more successful company.







IGVRT Autonomous Robot

Intelligent Ground Vehicles Robototics

The IGVRT team utilizes vision programming, artificial intelligence, in-depth electronics, and advanced mechanical techniques to develop a robot that is entirely autonomous. This robot has to operate out-

doors with varying weather conditions.

Location: 1302

Illiac III Supercomputer Redux SIGArch

A remake of the class Illinois supercomputer, the Illiac III, on an FPGA. Location: Atrium

Illini Entrepreneurship Network

The Illini Entrepreneurship Network promotes student startups and ventures on campus through a technology incubator program, workshops, and events. It currently supports 13 startups in the Student Venture Accelerator ranging from web based to green ventures.

Location: Atrium

Ink ACM Gamebuilders

A 4-playwer Co-op 2D scrolling game. Location: Atrium Video Wall

Megabyte

ACM Gamebuilders

A game that resembles the classic plat- MacWarriors former: Mega Man, but with randomly generated stages.

Location: Atrium Video Wall

mEvent

ACM Webmonkeys

Developed by Webmonkeys, an ACM SIG, during the 09-10 school year, mEvent is a Nightmare website that aggregates events on and ACM Gamebuilders near campus to help students find stuff to do in their spare time. It works by automatically reading and parsing websites and RSS feeds from local venues and organizations, then aggregrating this data into a simple, easy-to-use website complete with search functionality.

MultiTask Force

ACM Gamebuilders

Four player CTF / Destroy Castle Game. Each player controls two characters at one time via XBox 360 game pads. Location: Atrium Video Wall

MyCampus

MyCampus is an iPhone application designed to help UIUC students by providing them instant access to campus maps, local restaurant information, bus routes and more.

Location: Atrium

An isometric-platformer game. Location: Atrium Video Wall

Portable NES

An NES emulated on a microcontroller platform.

Location: Atrium

Location: Atrium

ExplorACES: two days where you (and your family!) can connect first-hand with academic and career-path opportunities awaiting you at the College of Agricultural, Consumer and Environmental Sciences (ACES).

More than 1,500 high school sophomores, juniors, and seniors from across the state of Illinois are expected at attend ExplorACES, which offers an inside look at the people and programs of the College of ACES at the University of Illinois.

ACES students will offer more than 100 hands-on exhibits relating to classroom work, club activities, and honors research. Teens and their parents can also tour lab and classroom facilities and visit with ACES faculty members.

The College of ACES offers 10 undergraduate majors with 39 different concentrations, and ExplorACES helps prospective students get an overview of the potential career pathways in areas of study such as bioengineering, community development, economics, human nutrition, plant breeding, resource ecology, and pre-veterinary studies.

We hope you'll stop by the ExplorACES welcome center in the ACES Library, Information and Alumni Center. You'll find a warm greeting there, along with an exciting introduction to all the options available to students in the College of ACES.

For a complete list of ExplorACES activities, go to aces.illinois.edu/ExplorACES/.

Puzzle Game

ACM Gamebuilders

A 2-player competitive puzzle game written in XNA. Location: Atrium Video Wall

SIGBot 2D Inverted Pendulum АСМ

It's like a pendulum, but upside down. In a crazy balancing act, SIGBot has built an inverted pendulum that can move in any direction (on the ground of course). Location: Atrium

SIGBot Quadrocopter

АСМ

SIGBot has taken to the skies with this fly- Tactical RPG ing robot. Come check out our quadrocopter with it's four rotating blades and automatic stabilization. Location: Atrium

SIGMusic

АСМ

Check out SIGMusic's revolutionary digital Linux Users Group instrument: Tacchi is a full sized table

converted into a multi-touch display. Location: Atrium

Solar Car Solar Car Club

A self-sufficient solar powered car which can operate without the use of external

power sources. Location: Moved to Talbot Laboratory

Stellar Jockeys ACM Gamebuilders

Top-down space combat game. Location: Atrium Video Wall

ACM Gamebuilders

A tactical RPG/turn based strategy game similar to Final Fantasy Tactics and Fire Emblem.

Location: Atrium Video Wall

Tunneling Proxy over DNS Packets

Integrating knowledge, deriving genius.

This project aims to implement a fast, efficient proxy server that passes data through DNS requests and responses to showcase vulnerabilities in modern subscription network services.

Location: Atrium

WCS TechTeam

Women in Computer Science

A new calendar program which displays the week and day in a circle rather than in the traditional rectangle. Location: Atrium

Talbot Laboratory

Concrete Crushing

Society for Experimental Mechanics

The Society for Experimental Mechanics will be demonstrating the 3 million pound testing machine in Talbot Lab by crushing large concrete cylinders. Stop by and check it out! Location: Basement



ECE Admitted Student Event

Students who have been admitted to the Department of Electrical and Computer Engineering (ECE) for the Fall 2010 semester are invited to a special event featuring a panel discussion with current ECE students followed by a reception with students, staff, faculty, and alumni. Families are welcome!

Saturday @ 11 am Room 1000 Micro and Nanotechnology Lab (MNTL)

Prospective ECE students

Interested in a career in electrical or computer engineering? Learn more during EOH by visiting with ECE student leaders or picking up a brochure in room 159 Everitt Lab.



Flight Simulator

AIAA

Get a chance to see what it feels like to fly an airplane! This flight simulator lets you take control of a yoke, pedals, and throttle to experience the thrills of flight. Location: 105

Fluids Lab Demonstration

Society for Experimental Mechanics

The Society for Experimental Mechanics will be showcasing the fluids lab in Talbot Laboratory. The fluids lab includes demonstrations of a hydraulic jump, non-Newtonian fluids, pressure forces on various bodies, a flow table and much more. Check out this great interactive exhibit! Location: 126

Night Sky

Women in Aerospace

An interactive exhibit of the night sky- its planets and moons, stars and constellations, and neighboring galaxies.

Location: 105

Smoke Ring Launcher

Society for Experimental Mechanics

The Society for Experimental Mechanics will be demonstrating their smoke ring launcher in the crane bay of Talbot Lab. The room!

Location: Crane Bay

TAM Toys and Nonlinear Dynamics Society for Experimental Mechanics

The Society for Experimental Mechanics ISGE will be demonstrating their collection of Illinois Society of General Engineers "TAM Toys." These unique "toys" demon- ISGE is a great way to connect with other linear spring dynamics. Location: 104

Wind Tunnel

AIAA

Have you ever wondered why a golf ball is Institute of Industrial Engineers will be nel in action as the aerodynamic properwith a smooth ball.

Transportation Building

Anchors Aweigh Illinois Society of General Engineers

Come test your engineering skills by building a boat made of tin foil and straws. Also, see a demonstration of a tea light steam boat and bring home directions to build your own!

Location: 1st Floor Hallway

Egg Drop

Gamma Epsilon

Put your engineering skills to the test with the Gamma Epsilon Egg Drop! Design and build your egg capsule out of items including string, tape, cups, balloons, cotton balls, and more. Then, we'll toss your capsule out the window and enjoy the show. Watch out for eggsplosions! Location: 206

iFoundry and iEFX

http://ifoundry.illinois.edu

iFoundry and Illinois Freshman Engineering Experience is designed to promote and communicate innovations in engineering education to the public audience attending EOH. Highlights of our new Intro to the smoke ring launcher sends a ring of smoke Missing Basics course (ENG 100++), our over 5 feet in diameter floating across the emphasis on design and hands-on projects, and our cultivation of the joys of engineering, lifelong learning, and community will be shared.

Location: Moved to Engineering Hall 106B8

strate both fundamentals of mechanics General Engineers here at UIUC and get and some more interesting mechanical professional mentoring from GEs out in phenomena. One of the more interesting the field. ISGE hosts several guest speakers pieces includes a demonstration on non- throughout the year, mock interviews, barcrawls, and much more. Location: 204

Manufacturing Improvements with IIE Institute of Industrial Engineers

covered with dimples? See a real wind tun- hosting a hands-on demonstration showing how simple improvements in a manuties of a golf ball are tested and compared facturing environment can make all the difference.

Location: 101

Nobles of Urbana

Engineering Outreach Society

This exhibit presented by EOS will incorporate two different aspects of engineering. The first is focused on the building and design of a small building using only recyclable materials. The other aspect is that of firing projectiles in a manner of taking down the city. The competitors are all students from Leal Elementary School and will compete in a bracket to be crowned King or Queen of Urbana.

Location: Moved to Everitt Laboratory

Why Engineering at Illinois?

and they also appreciate the comfort and neering community within campus.

A Rewarding Challenge

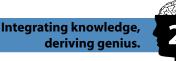
Engineering students study and work hard a key to success--good time management tional experience at Illinois.

a job". Illinois' engineering graduates are es statistics indicate engineering students

even famous-graduates who have gone



Location: 18a



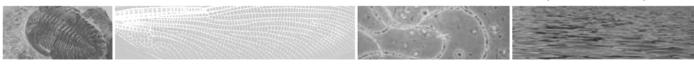
Friday, March 12 and Saturday, March 13

INRS Expo



NATURALLY ILLINOIS EXPO

INSTITUTE OF NATURAL RESOURCE SUSTAINABILITY



NATURALLY ILLINOIS EXPO: INSTITUTE OF NATURAL RESOURCES SUSTAINABILITY Home of the State Scientific Surveys at the University of Illinois

Please join us at the Naturally Illinois Expo 2010. Experience fifty exhibits, demonstrations, and hands-on activities of interest to the public, teachers, and students of all levels. Interact with scientists who work on cutting-edge research and solutions to water, energy, ecosystem, mineral resource, natural hazard, climate, and technology issues.

Exhibits include:

- Turtles of Illinois
- Microcritters: Dead and Alive
- Biofuels—From Waste to Biodiesel
- Building a Sustainable System in Haiti with Jatropha curcas
- Get to the Core: Steamy Swamps and Ice Age Glaciers
- Kids Fossil Dig
- Fun with Water Chemistry

Natural Resources Building (EOH shuttle stops outside) 615 East Peabody Drive Champaign, Illinois 61820

FREE Engineering Campus Tours!

ENGINEERING INFORMATION BUREAU is offering free tours of the engineering campus throughout EOH.

Tours will begin at The Visitor's Booth at the times listed below and will last approximately one hour.

Tour Times: Friday: 10am, 12pm, 2pm, 3pm Saturday: 10am, 12pm, 2pm



Thank You for attending



The College of Engineering at the University of Illinois at Urbana-Champaign was first established in 1868, and is considered one of the original units of the school. The presence of a steam engine on the University's seal is a good clue as to the importance of the engineering program to the University. Engineering at Illinois consistently ranks amongst **the top five such engineering colleges** in the United States by the U.S. News and World Report and ranks amongst **the top three in the world** in the Academic Ranking of World Universities. The College of Engineering is located at the northern terminus of the University of Illinois occupying the Bardeen Quadrangle, the Beckman Quadrangle and many nearby areas. Green Street almost perfectly divides the Engineering campus from the rest of the University, so engineers and the College of Engineering are often referred to as "North of Green."

Engineering Hall serves as the primary anchor point for the College of Engineering and houses administrative offices as well as academic facilities. Built in 1894, it is the oldest surviving building on the Engineering portion of campus. It was designed by George Bullard, a University alumnus as part of a University held architecture competition and is an example of the Renaissance Revival style of architecture.

The Bardeen Quad is home to the Grainger Engineering Library, the largest Engineering Library in the world with over 260,000 physical volumes and a substantial electronic repository. The building itself cost nearly \$30 million and has 135,000 square feet (13,000 m²) of floor space. It serves in excess of 1.5 million people annually.

THE 90TH ANNUAL ENGINEERING OPEN HOUSE AT THE UNIVERSITY OF ILLINOIS

Integrating knowledge, deriving genius.

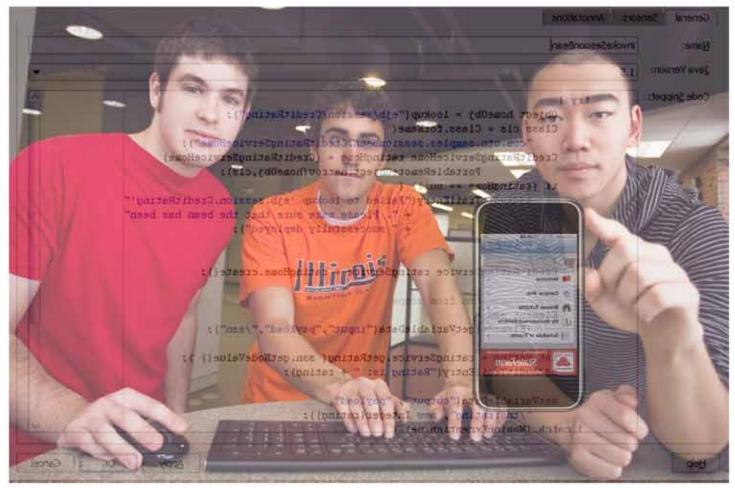


The First Engineering Open House at the University of Illinois was held in the spring of 1920, commemorating the centennial of the birth of James Watt. The Physics and Mechanical Engineering Open Houses were discontinued at this time to give greater chance for success to the all-college venture. The public was invited to inspect the facilities of the Engineering College and to see the displays, which had been set up in the laboratories, drafting rooms, and shops. The first Open House Program appeared at this time in the form of a twenty-page pamphlet. It briefly described sixty-odd experiments and contained a map of the engineering campus with a suggested itinerary.

Other open houses, later called Illinois Student Engineering Exhibitions, were held throughout the years. Students in all departments participated and were guided in their efforts by the Engineering Council. In 1928, the Open House was scheduled so as not to conflict (in year) with the Electrical Engineering Shows. The policy was also adopted of inviting state high schools and nearby colleges.

As was true of the Electrical Engineering Show, the all-engineering show was discontinued during the years of World War II. During the immediate post-war period the Electrical Engineering Show was reorganized and became a definite part of the newly named Engineering Open House.

Starting in 1948 and carrying through 1952, the Open House was held biannually. However, following the 1950 show, it was suggested that the Open House be planned as an annual affair. This proposal was accepted by both Engineering Council and the Executive Committee of the College of Engineering as an experiment in 1952 and 1953. Hence, the 2010 Open House will represent the 58th time that the annual event has been successfully held, but if you trace all the way back to the departmental open houses, this is the 90th Engineering Open House.



Meet Joe, Marc, and Oscar. They know this app from the inside out.

How do they know the EOH Mobile app so well? They wrote it, right here on campus at the State Farm Research and Development Center in the University of Illinois Research Park.

Developing mobile apps isn't the only type of work we do here. Around ninety student interns are working with full-time employees this semester on projects important to State Farm, the nation's top car and home insurer. Projects that include software development and research on new technology, consumers, and insurance risks.

We offer flexible hours, competitive pay, and real-world experience. And it's all in an environment that enables you to do work that will get noticed, like Joe, Marc, and Oscar's mobile app.

Come and get to know us, from the inside out.

- Check us out at sfresearchcenter.com
- Become a fan at facebook.com/SFResearch
- 🗧 Follow us on Twitter @SFRDC



LIKE A GOOD NEIGHBOR, STATE FARM IS THERE."

Your mobile guide to EOH

Use our free application as your guide to the University of Illinois Engineering Open House. You can find exhibits by building, category, or intended audience and rate them, too. Access the app with your web-enabled mobile device at



http://eoh.ec.illinois.edu/mobile. If you need Wi-Fi, just connect your device to the EOH-App-By-SF network and you're set!