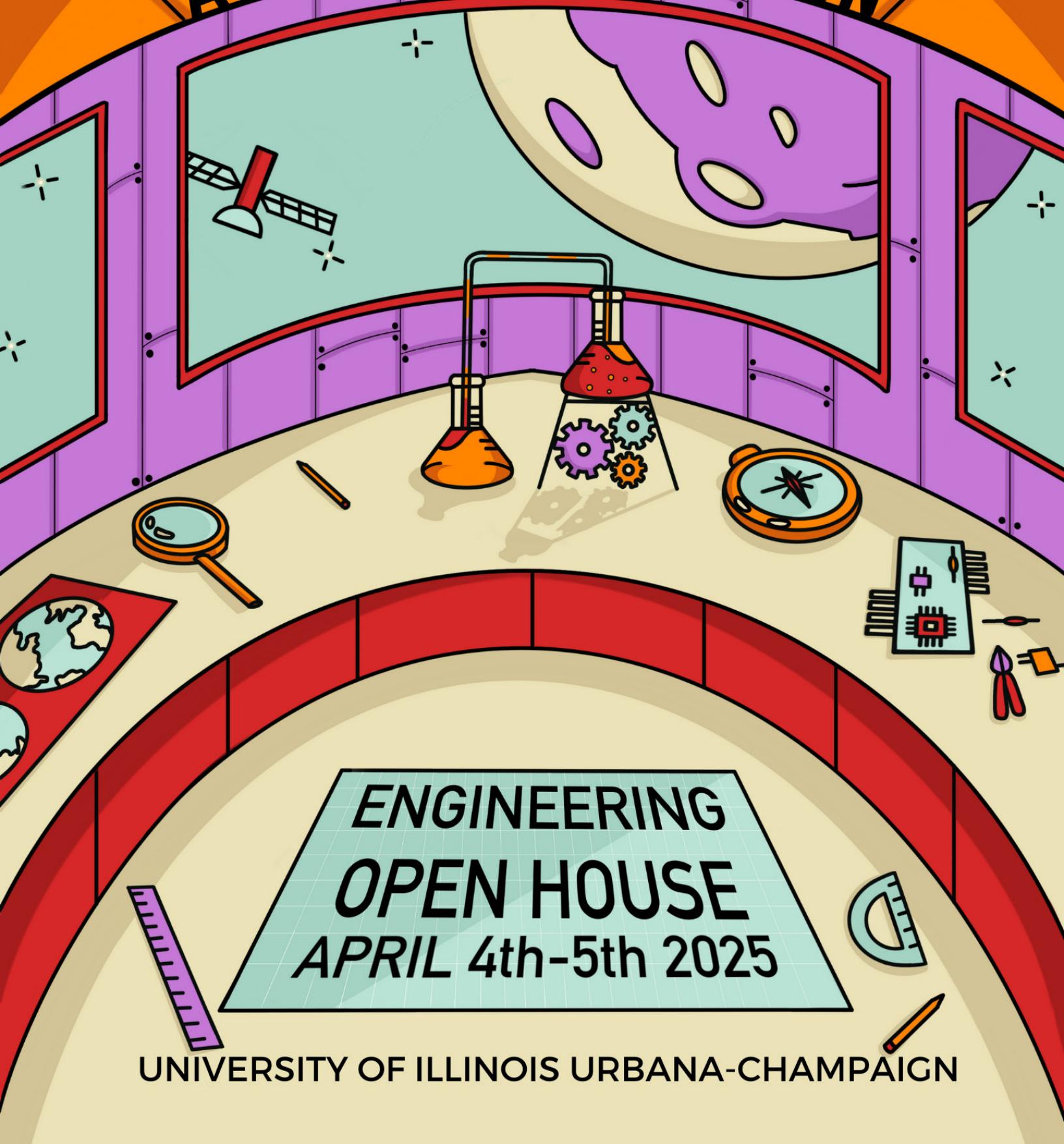


VISITOR'S INFORMATION GUIDE

# AGE OF INNOVATION



UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

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# VISITOR'S INFORMATION

## For More Information

### Visitor's Booth

Have any Questions? Need another visitor's guide? Exhibit suggestions? Find our volunteers to answer your questions in the Campus Instructional Facility (CIF), on Graziano Plaza, outside Sidney Lu Mechanical Engineering Building or outside Electrical and Computer Engineering Building (ECEB).

### Food

Look out for our students' favorite food trucks on Springfield Avenue, including:

- Juanito's Tacos
- Chicago Grill
- Pastamania
- Kona Ice
- Travelin' Tom's Coffee Truck
- Lemonade Factory
- La Paloma
- Burrito King
- Fernando's Food Truck

### Shirt Colors

Have a question? Check here to see who to ask!

Volunteers - Yellow

Exhibitors - Light Pink

Committee Members - White

Sponsors - Latte

Judges - Navy

HSDC - Bright Blue

MSDC - Lavender

Start-Up Showcase - Burgundy

Visitors - Aloe

## In Case of an Emergency

### Severe Weather

Please check our website in case of severe weather to see where exhibits will be held.

<https://eohillinois.org>

### Missing Child

In the case of a lost/missing child: Notify the visitor's booth nearest to you that you have custody of a lost child. A volunteer will bring the lost child to the visitor's booth in CIF, notify 911, and meet the reporting person and the lost child there. This is where a parent/guardian can meet the child.

### Medical Concerns

In case of injury, immediately notify any nearby volunteer and go to the EMS tent on Graziano Plaza, in between Engineering Hall and Everitt Laboratory.

### Local Hospitals

Carle Foundation Hospital  
Presence Covenant Medical Center

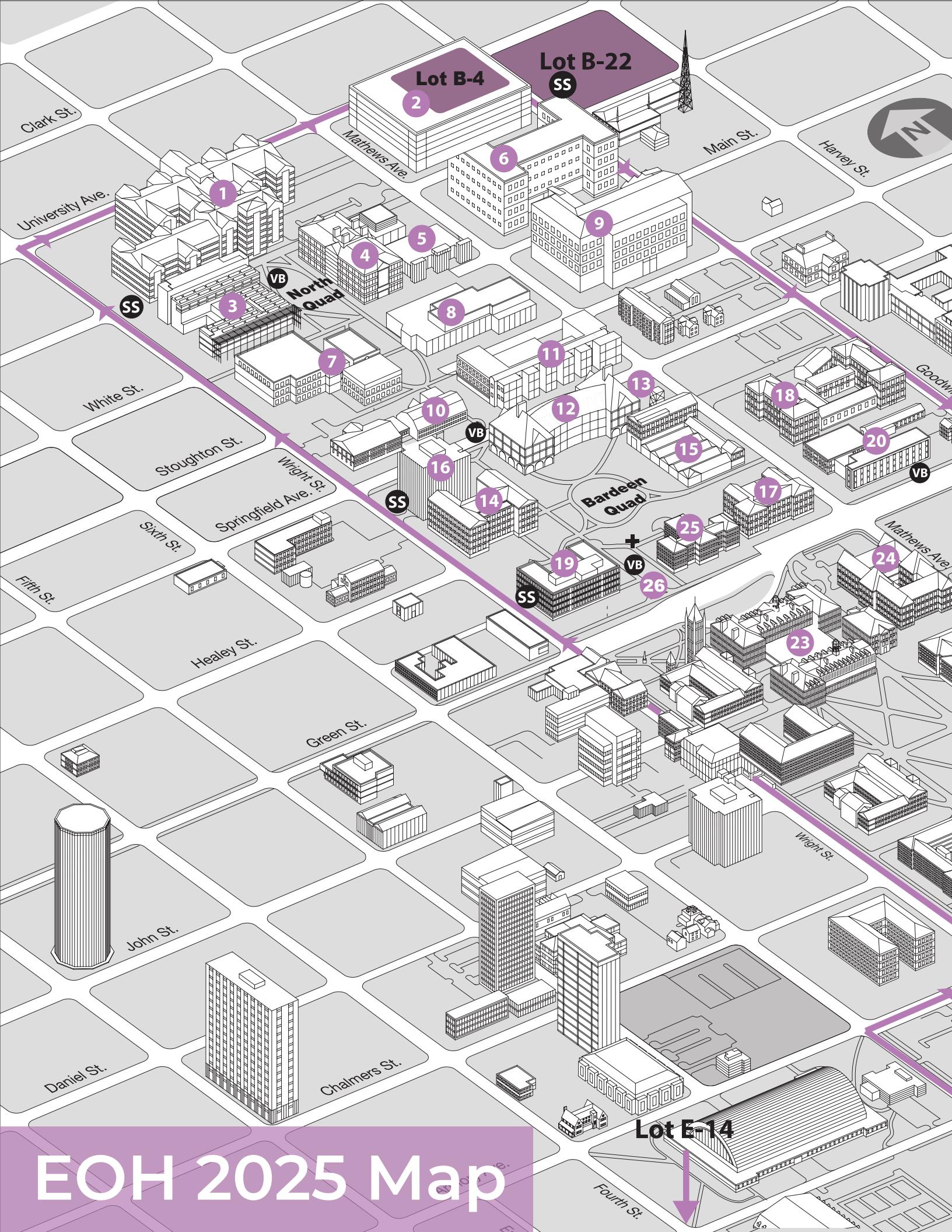
### Lost and Found

Missing items can be brought to our lost and found at the Visitor's Booth in CIF between 9 am and 5 pm on Friday and Saturday or at the Engineering Council Office (Engineering Hall 103C) any other time.

### Other Emergencies

Approach any EOH volunteer in the Visitor's Booth in the Campus Instructional Facility.

**All minors must be accompanied by a parent or guardian!**



# EOH 2025 Map

- 
- Springfield Ave.
- Western Ave.
- Green St.
- Adams St.
- Calton
- Busey Ave.
- Oregon St.
- Gregory St.
- Wabash St.
- Lindbergh
- Dormer
- 22
- 21
1. Beckman Institute  
2. Coordinated Science Laboratory (CSL) Studio  
3. Electrical and Computer Engineering Building (ECEB)  
4. Coordinated Science Laboratory (CSL)  
5. Hydrosystems Laboratory  
6. National Center for Supercomputing Applications (NCSA)  
7. Nick Holonyak Jr. Micro & Nanotechnology Laboratory  
8. Newmark Civil Engineering Laboratory  
9. Siebel Center for Computer Science  
10. Kenney Gym Annex  
11. Digital Computer Laboratory (DCL)  
12. Grainger Engineering Library  
13. Grainger Loading Dock  
14. Talbot Laboratory  
15. Mechanical Engineering Laboratory (MEL)  
16. Campus Instructional Facility (CIF)  
17. Materials Science and Engineering Building (MSEB)  
18. Transportation Building  
19. Everitt Laboratory  
20. Sidney Lu Mechanical Engineering Building (LuMEB)  
21. Loomis Laboratory  
22. Materials Research Laboratory (MRL)  
23. Illini Union  
24. Natural History Building  
25. Engineering Hall  
26. Graziano Plaza  
27. Observatory

**VB**

**SS**

**+**

**□**

Visitor's Booth

Shuttle Stop

Emergency Medical Services

Parking Lot

# PARKING AND SHUTTLE INFORMATION

## Parking

### On Friday, visitors can park in these lots:

Lot E-14: Near State Farm Center. Can be used for all-day parking on Friday April 4th. The shuttle will pick people up from E-14 and send them to the Bardeen Quad/ other exhibits.

Lot B-4: North campus, can also be used for all day parking April 4th. There is no shuttle stop here, so attendees will have to walk to Bardeen Quad (closest stop would be B-22).

### On Saturday, visitors can park in:

B1- Springfield Avenue between Mathews and Goodwin, B17- Harvey Street between Clark and Main, C09- Chalmers and Sixth, D09- Illinois and Lincoln, E14- First Street and Kirby, F23- Lincoln Avenue and Florida, F28- Peabody and Dorner Drive, B4- University and Mathews, F29- Gregory and Dorner Drive.

## Pick-up and Drop-off

B-22 will be used for bus parking, buses will only be able to pick up/drop off there. Visitors must take the shuttle or walk to B-22 and leave from there at the end of their day if being picked up by a bus.

## Street Closures

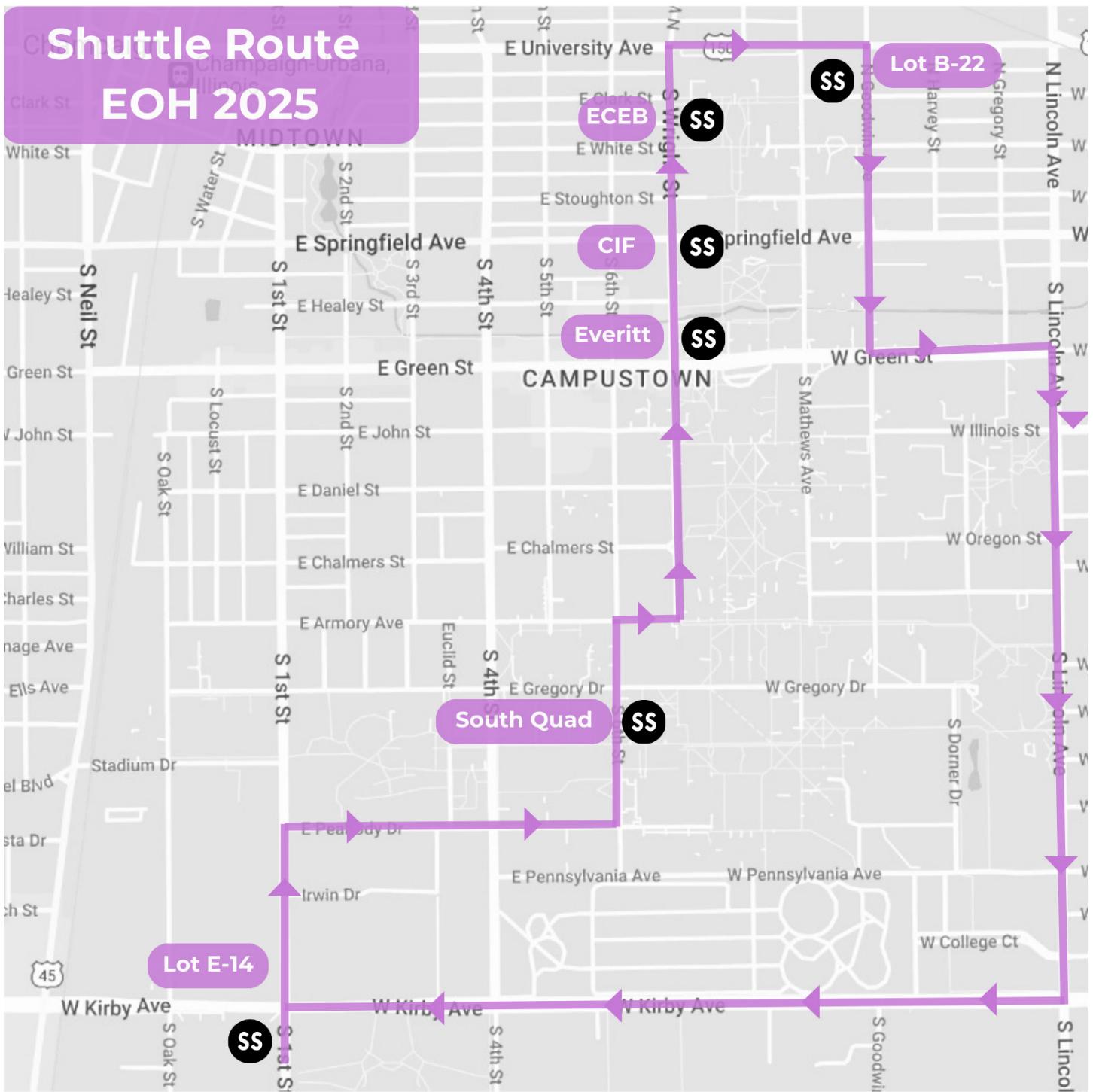
W. Springfield Ave (Wright to Mathews) and S. Mathews St (Green to Springfield) will be closed. Only sponsors, committee members, F&S vehicles, emergency vehicles, and field trip buses will be allowed in. The road will be closed from 7 am to 6 pm.

## Shuttle Information

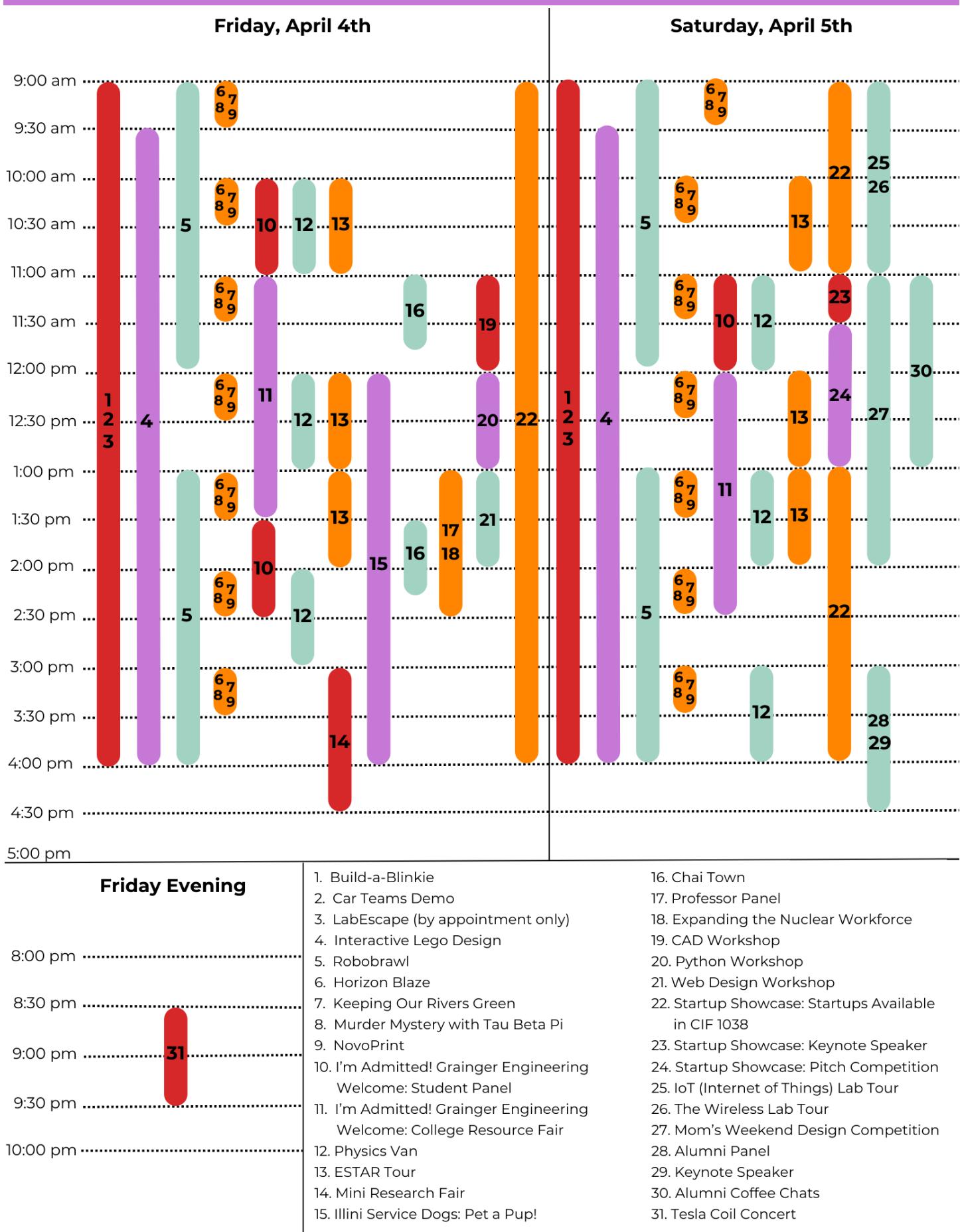
The shuttle will run from 8:00 am to 5:30 pm Friday and Saturday. Shuttle stops will be:

- Lot E-14,
  - S 6th St (close to South Quad)
  - Everitt Laboratory
  - Campus Instructional Facility (CIF)
  - Electrical and Computer Engineering (ECEB)
  - Lot B-22
- and then will return to E-14 and repeat.

# PARKING AND SHUTTLE INFORMATION



# TIMELINE OF SPECIAL EVENTS



# SPECIAL EVENTS

## **Keynote Speaker**

CIF Monumental Steps **Saturday 3-4:30 pm**

Dr. Anna Oldani is passionate about creating opportunities for students to develop, technology to advance, and communities to grow. Come to her keynote speech to learn more about her journey through academia here at the University of Illinois and her career path!

## **Tesla Coil**

Bardeen Quad **Friday 8:30-9:30 pm**

Just as dark falls, visit the Bardeen Quad to see an electrifying display of light and sound.

## **Alumni Coffee Chats**

CIF 2036 **Saturday 11 am-1 pm**

Students can get to know alumni in a more personal setting! This is a great opportunity to ask alums about their time at the U of I, the industries they work in, and how students can plan their lives after college.

## **Alumni Panel**

CIF 2036 **Saturday 3-4:30 pm**

Come learn about different careers and projects from UIUC alumni!

## **Build-a-Blinkie**

CIF 0035 **Friday and Saturday 9 am-4 pm**

Build-a-Blinkie is an organization dedicated to the teaching of STEM. We are teaching people to solder one blinkie at a time. Come check out this interactive activity and take home your own soldered blinkie!

## **Car Teams Demo**

Grainger Loading Dock, Mathews Avenue **Friday and Saturday 9 am-4 pm**

This EOH showcase track is for vehicles built and designed by engineering student teams for collegiate competitions. This is a great opportunity for action pictures and for the public to talk to team members.

## **Chai Town**

Graziano Plaza **Friday 11-11:45 am, 1:30-2:15 pm**

Come listen to UIUC's famous South Asian acapella group!

## **ESTAR Tour**

ESTAR Booth outside CIF **Friday and Saturday 10-11 am, 12-1 pm, 1-2 pm**

Come learn more about the Grainger College of Engineering with a tour from ESTAR!

## **Expanding the Nuclear Workforce**

CIF 4025 **Friday 1-2:30 pm**

Featuring experts in nuclear energy and workforce development, this event aims to engage and inspire students, faculty, and visitors to explore opportunities in the nuclear industry, a critical field for clean energy advancement. Come listen to a discussion between our amazing panelists and pose your own questions!

## **Face Painting**

Graziano Plaza **Friday 10 am-3 pm, Saturday 10 am-1 pm**

Make your imagination reality just like our exhibitors by visiting our face painting booth!

## **Horizon Blaze**

Boneyard Creek **Friday and Saturday 9 am, 10 am, 11 am, 12 pm, 1 pm, 2 pm, 3 pm (30 minutes long)**

Watch two rockets race between the bridges every hour! We designed and built 2 model rockets, and will race them between the bridges while teaching about the processes used to build rockets and the motors that power them.

## **I'm Admitted! Grainger Engineering Welcome**

Student Panel: Friday: CIF 3039 10 am, CIF 3018 2 pm; Saturday: CIF 4025 **Friday 10-11 am, 2-3 pm, Saturday 11 am-12 pm**

College Resource Fair: CIF Monumental Steps **Friday 11 am-2 pm, Saturday 12-2 pm**

Congratulations admitted new first-year and transfer engineering students! Start your Engineering Open House visit at the Campus Instructional Facility (CIF) Monumental Steps to receive a limited-edition gift while supplies last. Then join us for a Student Panel to meet a Dean and connect with current students. Stop by the College Resource Fair to learn about future opportunities and take a fun, commemorative photo!

## **Interactive Lego Design**

CIF 2039 **Friday and Saturday 9:30 am-4 pm**

The Lego Design Lab is a place designed for students of all ages to engage in interactive lego building and coding. There will be 3 stations: Robot Maze, Machine Building, and Spider Obstacles.

## **Illini Service Dogs Outreach: Pet a Pup!**

Loomis 147 **Friday 12-4 pm**

Come learn about Illini Service Dogs and their organization's mission while interacting with their dogs!

# SPECIAL EVENTS CONT

## IoT (Internet of Things) Lab Tour

iSENS Lab, Siebel School of Computing and Data Science Room 1109 Saturday 9-11 am  
Lab Tour of IoT lab.

## Keeping Our Rivers Green

Boneyard Creek, Bardeen Quad Friday and Saturday: 9 am, 10 am, 11 am, 12 pm, 1 pm, 2 pm, 3 pm

To keep our rivers green, we will be dyeing them green! We will inject a small amount of dye in our Boneyard Creek to learn how pollutants travel in rivers. With this knowledge we can avoid the risks that pollution brings to our rivers.

## LabEscape

DCL 1262 Scan the QR code on the right to view times and sign up!

The situation is dire as a deadly asteroid hurtles towards Earth and a complete extinction event. Only a cool head, quick wits and quantum technology can save us-- the fate and security of the entire world are in your hands. You'll have to search the lab, solve mind-blowing puzzles to reveal clues, and hopefully find a way to complete your mission!

**Reservations required:** [labescape.org/EOH2025](http://labescape.org/EOH2025)



## Mini Research Fair

Sidney Lu MEB Basement Friday 3-4:30pm

Professors will have posters with their research, and undergraduates will be able to talk to them about the research they are doing.

## Mom's Weekend Design Competition

Loomis 136 Saturday 11 am-2 pm

Stop by with your mom or friends and compete in our design competition! Spend as long as you would like and show off your engineering intuition.

## Murder Mystery with Tau Beta Pi

Everitt 1103 Friday and Saturday at 9 am, 10 am, 11 am, 12 pm, 1 pm, 2 pm, 3 pm, 30 minutes each

Be a detective and help us find the murderer! Discover how engineering skills can help solve this mystery.

## NovoPrint: Multi-Extruder Robotic Printing Arm

Sidney Lu MEB Atrium (Rm 1100) Friday and Saturday, shows at 9 am, 10 am, 11 am, 12 pm, 1 pm, 2 pm, 3 pm

An exhilarating, futuristic spectacle that combines robotics and 3D printing to produce real-life CAD models!

## Physics Van

Loomis Laboratory 141 Shows on Friday 10 am, 12 pm, 2 pm, Saturday 11 am, 1 pm, 3 pm (1 hour long)

A live show for all ages, turning bananas into hammers, creating explosions, and more! Come to our shows at 11 am and 1 pm on Saturday for a special edition in honor of our anniversary!

## Professor Panel

CIF 2018 Friday and Saturday, 1-2:30 pm

The professor panel is an opportunity for current and prospective students to ask professors about their fields, how to get involved with research, and pursuing academia/graduate school.

## Robobrawl

Between Lot B1 and Transportation Building Friday and Saturday, 9 am-12 pm, 1-4 pm

Robobrawl returns for its tenth anniversary! The Robobrawl competition consists of 30lb and 1lb combat robots from different universities and hobbyist teams fighting one-on-one matches. Let's rumble, robots!

## Startup Showcase

Keynote Speaker: CIF Monumental Steps Saturday 11 am-11:30 pm

Pitch Competition: CIF Monumental Steps Saturday 11:30 am-1 pm

The Startup Showcase is dedicated to celebrating student entrepreneurs! Come see what our inventive Illinois students have been working on at their booths (available in TEC Office, CIF 1038, 9 am-4 pm excluding keynote speaker and pitch competition) and experience demos, giveaways, and much more!

## The Wireless Lab Tour

iSENS Lab, Siebel School of Computing and Data Science Room 3109 Saturday 9-11 am

Visitors will be given the opportunity to try VR demos the lab has created and learn about radar and the kind of experiments that happen in the lab.

## Workshops in Python, CAD, and Web Design

CAD: Engineering Hall 406B1 & 110A Friday 11 am-12 pm

Python: Engineering Hall 406B1 & 110A Friday 12-1 pm

Web Design: Engineering Hall 406B1 & 110A Friday 1-2 pm

Join us for a workshops in Python, CAD, and Web Design at the Engineering Hall computer lab.

## DIRECTOR'S NOTE

Welcome to the 103rd Engineering Open House (EOH) at the University of Illinois Urbana-Champaign! We are so excited to welcome university students, faculty, community members, and field trips to campus. EOH is the nation's largest student-run STEM (Science, Technology, Engineering, and Math) fair, where participants have the opportunity to showcase independent engineering projects and innovations unseen by the scientific community.

The theme of this year's event is **The Age of Innovation**. It is our hope that EOH visitors will foster new curiosity in STEM and learn more about how students at the Grainger College of Engineering are at the forefront of innovation and scientific excellence.

EOH 2025 features over 200 exhibits, including 10 student startups, and 14 special events such as rocket launches, student-engineered cars, and escape rooms. Each exhibit at EOH has been many months in the making, and the majority of projects are entirely student-led. EOH features work from every engineering discipline, celebrating not only current technologies but ushering in a new **Age of Innovation**.

This year, EOH has the special opportunity to be a part of the festivities of Mom's Weekend. We would like to give all Grainger Engineering Moms a warm welcome, and invite you to explore the unique features of EOH that have been organized in celebration.

EOH would not be possible without exhibitors, volunteers, corporate sponsors, judges, alumni, faculty, staff, and Grainger administration. We thank you for your dedication, hard work, creativity, and resilience in the face of challenges. Our largest thank you goes to the EOH Central Committee, composed of 29 directors all responsible for a unique aspect of EOH. EOH is an entirely student-led event, and planning has been in full force for almost an entire calendar year. We rely on the Central Committee to plan EOH on top of being full-time students — an immense responsibility that we would like to express our deepest gratitude for.

We thank every single person for being a part of EOH and celebrating what it means to be a Grainger Engineer. We hope that you explore engineering and appreciate the new **Age of Innovation** that is happening right here at the University of Illinois.

Alicia Kim & Alyssa Huang  
Co-Directors, Engineering Open House 2025



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| Pykrete: Ice with the Strength of Steel                              | E122           | 26          |   |                |             |
| Quantum Levitation and Wave Lab                                      | E186           | 25          |   |                |             |
| Railroad Signalling System   | E70            | 30          |   |                |             |
| Robotic Hand   | E56            | 34          |   |                |             |
| Robotic Shoulder Joint   | E59            | 22          |   |                |             |
| Rube Goldberg Society  | E163           | 34          |   |                |             |
| Sakura MedTech   | E139           | 22          |   |                |             |
| Scaled Down X-Ray Machine  | E36            | 15          |   |                |             |
| ScribeAR: Augmented-Reality Captioning                               | E152           | 18          |   |                |             |
| Sediment Flume   | E110           | 25          |   |                |             |

# EXHIBITS

# BARDEEN QUAD

## Ackerman Steering Demo

SEM (Society for Engineering Mechanics)

The Ackerman Steering Demo is a fun way to feel how different steering geometries affect the handling of cars with your own bare hands!

Cars

Mechanics

Design Team

## American Institute of Aeronautics and Astronautics

AIAA

AIAA is an Aerospace professional organization that sponsors 4 exciting projects: drones, electric planes, jet engine experiments, and a simulated Mars mission!

Planes

Future-Oriented

Kid-Friendly

## Astronaut Tasks

Illinois Space Society

Come try how it feels to use astronaut gloves! Feel the difference between simple daily tasks on Earth and those same tasks being done in a spacesuit. Learn why developing technology for astronauts is so important and why many new materials are developed in space.

Outer-Space

Research

Physics

## The Beast

American Society of Mechanical Engineers Special Projects

Experience the mechanics of motion! Come see a large, man-powered walking linkage machine and learn about the fascinating engineering behind linkages and dynamic movement.

Mechanics

Construction

Physics

## Bike-pump-fed Rocket Engine Injection System

Liquid Rocketry at Illinois

Join us as we explore some of the fundamental concepts that enable humans to reach space and win exciting prizes

Outer-Space

Mechanics

Physics

## Biodiesel for the Future

Illinois Biodiesel Initiative

Biodiesel for a renewable future!

Bio-Fuel

Sustainable

Chemistry

## The Chemistry of Slime

Alpha Chi Sigma

You already know that slime is super fun to play with. But what makes it act the way it does? And how can there be so many different types? Experiment with the makeup of all sorts of slime (or even try making your own) and learn a little bit about chemistry along the way!

Chemistry

Kid-Friendly

Art & Design

## Ctrl-Z Robotics

Champaign-Urbana Community/ FIRST Robotics

Come visit Ctrl-Z FIRST Robotics Competition Team! Winners of the 2023 World Championship, we are a community team of high school students in Champaign County that builds robots that compete with teams from around the world.

Robotics

Programming

Kid-Friendly

## Fountain Wars

American Society of Agricultural and Biological Engineers

Agriculture

Environment

Water

## Freedom Machine: Adaptive Gravel E-Trike

American Society of Mechanical Engineers (American Society of Mechanical Engineers)

Our adjustable trike takes the idea of a normal trike and makes it custom to anyone on the market looking to take a stroll in nature. Having an adjustable seat bucket, back plate, and foot plate accommodates anyone, especially our clients who have limited mobility below the waist. Our motorized hitch simplifies loading and unloading an e-trike, making the process effortless and fully independent. This practical solution empowers individuals with mobility challenges to explore and enjoy greater freedom. Come see our product live in action through a fun obstacle course!

Design Team

Mechanics

Future-Oriented

# BARDEEN QUAD CONT

# EXHIBITS

## Healing Wounds with Adhesive Hydrogels

Wang Lab

Healing wounds with gelatin.

Biology

Chemistry

Health & Medicine

## Horizon Blaze

Illinois Space Society

Watch two rockets race between the bridges every hour! We designed and built 2 model rockets, and will race them between the bridges while teaching about the processes used to build rockets and the motors that power them.

Robotics

Mechanics

Future-Oriented

## HuLC Smash

Illinois Space Society

Frozen flowers?! Come see flowers frozen in liquid nitrogen while learning about the uses of liquid nitrogen in cryogenic technology today. We will demonstrate how we are using cryogenic technology to compete in a competition to develop new systems for NASA and how that can be a really interesting field for students interested in both space and chemistry.

Food

Future-Oriented

Chemistry

## Illinois Robotics in Space Outreach

Illinois Robotics in Space

A fun and interactive activity to learn about lunar construction and robotics!

Robotics

Outer-Space

Construction

## Keeping Our Rivers Green

International Water Resources Association

To keep our rivers green, we will be dyeing them green! We will inject a small amount of dye in our Boneyard Creek to learn how pollutants travel in rivers. With this knowledge we can avoid the risks that pollution brings to our rivers.

Environment

Water

Chemistry

## Pasta Rocket

Illinois Space Society

Burning a pasta noodle?! Come watch us demonstrate a hybrid engine as we burn a mixture of yeast and peroxide in a typical pasta noodle. We will show our testing methods and teach about why hybrid engines are used in modern rocketry.

Chemistry

Combustable

Physics

## Scaled Down X-Ray Machine

Biomedical Engineering Society (BMES)

Homemade X-Ray Machine!

Health & Medicine

Electronics

Biology

## The Science of Cotton Candy

Material Advantage

You've seen it at fairs, carnivals, and more, but what exactly is cotton candy, and how is it made? Stop by our booth to watch cotton candy being spun, learn how it's similar to fiber glass, and even take some cotton candy home for yourself!

Food

Chemistry

Kid-Friendly

## Self Regulating Reticulated Python Enclosure

Individual

A vivarium that is always the perfect conditions for a snake. Watch as our enclosure automatically takes care of an 8 foot reticulated python!

Biology

Electronics

Kid-Friendly

## Stomp Rockets!! ft. Women in Aerospace

Women in Aerospace

Blast off with Women in Aerospace! Join us at the Women in Aerospace booth and launch your imagination sky-high! Design and build your very own paper rocket, then feel the thrill as you stomp on the foot pump and send it soaring into the air. Discover the science behind flight and celebrate the amazing contributions of women in aerospace engineering and exploration.

Outer-Space

Design Team

Mechanics

## Triangle Arcade Machine

TRIANGLE

Come play retro arcade games with your friends and family!

Kid-Friendly

Art & Design

Electronics

# EXHIBITS

# BARDEEN QUAD CONT

## UIUC Precious Plastic

Maker Network

Turning plastic waste into 3D printing filament

Sustainable  
Mechanics  
Environment

## COORDINATED SCIENCE LABORATORY (CSL) STUDIO

### Center for Autonomy Robotics Showcase

Coordinated Science Laboratory (CSL Studio)

Center for Autonomy Showcase: Our research focuses on designing innovative robots and drones that can function autonomously and interact with humans in a safe and reliable ways. Come and see the things they can do.

Robotics  
Future-Oriented  
Research



### LabEscape

LabEscape

The situation is dire as a deadly asteroid hurtles towards earth and a complete extinction event. Only a cool head, quick wits and quantum technology can save us -- the fate and security of the entire world are in your hands. You'll have to search the lab, solve mind-blowing puzzles to reveal clues, and hopefully find a way to complete your mission! Reservations required: labescape.org/EOH2025 (QR code in Special Events section)

Kid-Friendly  
Programming  
Research

## ELECTRICAL AND COMPUTER ENGINEERING BUILDING (ECEB)

### Atalanta: The Space Argonaut

Women in Electrical and Computer Engineering

Exploring the Unknown, Six Steps at a Time

Robotics  
Outer-Space  
Programming

### DIY Musical Instruments

Society for Engineering Mechanics

Explore two innovative instruments that let you create music through motion and technology! Move your hand to generate unique melodies with an ultrasonic sensor, or scan barcodes to unlock a symphony of sounds. Engage, play, and experience music in a whole new way!

Electronics  
Music  
Programming

### ECESAC

ECESAC

ECESAC presents an exciting booth featuring a racetrack and a booth for questions!

Electronics  
Kid-Friendly  
Good for older  
students

### EchoMe!

Illinois Enactus

Step into a world of fun and learning with Echo Me, an innovative approach to helping young children master tricky speech sounds through guided play. Explore adorable plush toys that come to life with sound! When moved, these toys produce engaging speech sounds like "sss" for a snake or "vv" for a vacuum, helping kids associate sounds with objects while building their motor skills. Designed for children ages 0-5, Echo Me's playful and age-appropriate design uses auditory bombardment, a speech therapy technique, to provide constant exposure to sounds that support speech development. With toys modeled after animals, vehicles, and more, Echo Me brings speech learning to life through imaginative and interactive play. Perfect for caregivers and children alike, this exhibit is where play meets progress!

Design Team  
Robotics  
Kid-Friendly

## Ghost Electric Motorcycles

*Ghost Electric Motorcycles*

Riding into the future, powered by innovation. Discover the cutting-edge of electric vehicles with Ghost Electric Motorcycles, a student-led organization from the University of Illinois. Learn about our journey of engineering and sustainable design as we build a high-performance electric motorcycle, competing at AHRMA race events. Explore how we're redefining the thrill of riding, one electric revolution at a time!

Cars  
Sustainable  
Mechanics

## Gotham City Pinball

*Lego Masters at UIUC*

Gotham City Pinball: Build Beyond Limits. Challenge your perception of LEGO with Gotham City Pinball, an extraordinary Batman-themed pinball machine made entirely with LEGO Technic. This exhibit combines technical mastery with creative flair, showcasing flippers, a plunger, ramps, and motorized obstacles in a functional design. Alongside the machine, discover how LEGO Technic drives real-world innovations such as life-sized cars and prosthetics, proving its practicality and versatility. With engaging visuals and a breakdown of each mechanism, Gotham City Pinball invites you to explore the endless possibilities of engineering and creativity.

Kid-Friendly  
Mechanics  
Art & Design

## Illini RoboMaster

*Illini RoboMaster*

Robots in Action: Precision, Power, and the Future of Engineering!

Robotics  
Mechanics  
Electronics

## Illini Solar Car (Static)

*Illini Solar Car*

Illini Solar Car presents our second and third generation solar-electric vehicles. Both of these cars have driven thousands of miles across the United States on solar power alone.

Sustainable  
Cars  
Design Team

## Illini VEX Robotics

*Illini VEX Robotics*

Experience a thrilling showdown of cutting-edge tech at our 12 ft by 12 ft indoor robot challenge field! Visitors can grab a controller and guide real robots through ramps, cones, and other obstacles in a timed or scored adventure. Explore the engineering behind these machines and dive into our organization's broader educational mission. With interactive demos and exciting competition, this exhibit promises to spark curiosity and inspire the next generation of STEM enthusiasts.

Robotics  
Kid-Friendly  
Mechanics

## Illini VEX Robotics R&D

*Illini VEX Robotics*

Illini Vex Robotics' R&D team has been designing and developing omni-wheel driven robots in cooperation with Prismier Manufacturing which can move in any direction, controlled remotely or autonomously!

Robotics  
Design Team  
Electronics

## Illini VEX Robotics Software R&D

*Illini VEX Robotics*

Smart Sampling for Smarter AI: Efficiently Mastering Atari with Multi-Task Training

Programming  
Research  
Robotics

## Information Trust Institute (ITI)

*Information Trust Institute (ITI)*

Securing the Future: Cyber Defense for Critical Infrastructures.

Kid-Friendly  
Programming  
Electronics

## InSPIRE (Institute of Scientific Progress, Innovation, Research and Edu-training)

*INSPIRE*

Discover the power of the sun with our dual-axis solar tracker and solar-powered drone—innovative solutions for a sustainable future!

Electronics  
Sustainable  
Robotics

# EXHIBITS

# ECEB CONT

## ISSA - Semiconductor Processing Game

ISSA

Learn about Integrated Circuit fabrication by playing this game as a scientist in the UIUC NanoFab Lab!

Electronics  
Programming  
Physics

## Marionette

Individual

Try to beat our self-driving remote-control cars around a mini race track and learn how we made them!

Robotics  
Electronics  
Cars

## Physics Outreach and Instruction through New Technologies (POINT) VR

Illinois Center for Advanced Studies of the Universe

Step into Albert Einstein's shoes and discover general relativity through our immersive virtual reality exhibit, created by UIUC physicists. Explore how gravity shapes space and time in a visually stunning and interactive experience. *Using virtual reality headsets leads to a 1/4000 risk of seizures due to flashing lights. Users will be warned before use that they should not participate if they have any history of epilepsy or seizures. There is also a risk of walking into objects that the user cannot see, but this risk will be mitigated by having safe, designated play zones that are free of objects and trained volunteers available to assist participants in the headsets.*

Physics  
Outer-Space  
Smart Technology

## Power and Energy Group

ECE Power and Energy Group

Come and learn about topics related to power and energy through fun and interactive exhibits including a levitating frying pan and an electromagnetic ring cannon.

Electronics  
Physics  
Sustainable

## ScribeAR: Augmented-Reality Captioning

ScribeAR

Come see how robots sort and deliver treats! Watch as the robot arm organizes candies, and then the mobile robot brings them to you. It's a show of sweets and robots – simple, fun, and totally delicious!

Programming  
Smart Technology  
Electronics

## SIGRobotics

Association for Computing and Machinery (ACM @ UIUC)

SIGRobotics is a project and research focused robotics club here at UIUC. In just the last year, we've built a miniature humanoid, several 3D printed robotic arms, and a mobile manipulator (think roomba with an arm on it). Come see what the future looks like!

Robotics  
Future-Oriented  
Programming

## Smart Bird Feeder

Professor Kindratenko

Tailored Treats for Every Tweet - as birds land at our feeder, our weight sensor and video livestream feeds data to machine learning algorithms, seamlessly identifying the birds as they come and releasing the appropriate food for each bird.

Smart Technology  
Environment  
Programming

## Society of Hispanic Professional Engineers (SHPE)

Society of Hispanics Professional Engineers (SHPE)

Robotic Hand: Bridging Communication-Type a letter, spark a conversation—watch our robotic hand bring language to life! AI Lotería Machine: Challenge the Mind-Are you lucky enough to beat the machine?

Robotics  
Smart Technology  
Electronics

# EVERITT LABORATORY

# EXHIBITS

## Adaptive Walker for Parkinson's Patients

Illini MediMech

Try our adaptive walker featuring an innovative button-activated brake, designed to help Parkinson's patients regain control and confidence.

Health & Medicine  
Design Team  
Smart Technology

## Bionic Arm

Tau Beta Pi

The future of motion.

Robot  
ics  
Prosthetics  
Electronics

## Breathable Wrist Brace for Carpal Tunnel Syndrome

Biomedical Engineering Society

Brace yourself for an accessible future! A comfortable and stylish medical device with sensing functionality.

Design Team  
Health & Medicine  
Kid-Friendly

## Build a Mars Habitat

Illinois Space Society

Build a home on humanity's next frontier! Come to our exhibit to learn about the science behind life on Mars, hear what NASA's next plans are, and build your own future house on the red planet. Exercise your creative side and build a physical model that can be your future place of living when we reach Mars!

Outer-Space  
Mechanics  
Physics

## Care for the Air

AAAR@UIUC

We will show air pollution research in an accessible way. Visitors could see the mini smog in a jar, air quality sensor, and way to "catch" them.

Environment  
Kid-Friendly  
Sustainable

## Chemical Engineering: Flames and Flows

Chemical and Biomolecular Engineering Graduate Student Advisory Council

Come to see how Chemical Engineering intersects with flames and flows.

Chemistry  
Molecular Scale  
Kid-Friendly

## Chemistry Through Time

Reaching & Educating America's Chemists of Tomorrow (REACT)

Dive into the wonders of chemistry through time with REACT! With the opportunity to make ancient pigment art, reveal secret messages with invisible ink, or mold biodegradable plastic, each station will spark your curiosity with hands-on experiments that show how chemistry has shaped the past, present, and future. Join us on this journey through time and science!

Chemistry  
Kid-Friendly  
Future-Oriented

## Continuous ECG Monitoring Systems

I-MADE

Investigating how to make ECG monitoring more cost effective to detect heart attacks and chronic disease progression.

Health & Medicine  
Electronics  
Smart Technology

## Design Your Cure

Association of the Liberal Arts and Sciences

Design Your Cure is an engaging and educational activity that allows participants to experience how AI is revolutionizing drug development. The exhibit begins with an introduction to a specific "disease" and its biological cause, such as an overactive enzyme. Participants view an animated 3D representation of the target protein, the molecule that the drug needs to interact with, learn about its structure and function, and are tasked with designing a drug to block this enzyme and stop the disease. Participants will test their creation by submitting it to the AI system.

Biology  
Chemistry  
Data Science

# EXHIBITS

# EVERITT LABORATORY CONT

## Designing for Accessibility with MedLaunch UIUC

MedLaunch UIUC

Explore the exciting projects we have been working on all year long to make our community a more accessible place! While you're at it, experience the human-centered design process for yourself and understand its importance in engineering solutions!

Health & Medicine  
Design Team  
Art & Design

## Ergonomic Syringe Administration Project

Biomedical Engineering Society

Assistive Device Aiding in Self-Administration of Medications for Disabled Individuals

Health & Medicine  
Design Team  
Robotics

## FormFit: Wearable Motion Sensor for Sports Injury Prevention

Biomedical Engineering Society

Discover how wearable technology is revolutionizing injury prevention! Try on our motion sensor prototype, see real-time feedback on a monitor, and learn how it tracks movements to identify risks and promote safe, healthy activity. Visit our booth for an interactive look at how engineering is keeping people moving safely!

Health & Medicine  
Electronics  
Smart Technology

## Hands-On Healthcare: Creating Personalized Fluidic Devices with 3D Printing

Leggett Lab at Illinois

Discover the future of healthcare at our interactive booth, where students can create their own microfluidic devices for personalized medicine using 3D-printed components

Health & Medicine  
Biology  
Mechanics

## Hydrogels in Healthcare

Biomedical Engineering Society

Hydrogels are a material of interest in healthcare for many reasons, one of which is that they can regulate many important factors in the healing of chronic wounds. Swing by our exhibit to see our take on this field of research, build your own hydrogel, and test how hydrogels can absorb up to 800 times their weight in water!

Health & Medicine  
Chemistry  
Sustainable

## Intragastric Balloon Therapy

I-MADE

Obesity affects millions globally, yet affordable, effective solutions remain scarce. Our innovative approach uses cost-effective intragastric balloons to reduce treatment costs from \$1500 to just \$10. Leveraging their sterility, elasticity, and biocompatibility, we introduce a novel sealing mechanism to ensure safety and efficacy. This breakthrough makes minimally invasive weight-loss therapy accessible to underserved populations, paving the way for a healthier, more equitable future.

Health & Medicine  
Biology  
Smart Technology

## Jump Simulation Urbana (closed 12-1 Friday and Saturday)

Carle Illinois College of Medicine

Jump Simulation Urbana is the state of art medical simulation program for Carle Illinois College of Medicine . Within this center simulation training is revolutionizing medical education. Enhancing technical skills in a low-risk environment with virtual reality, manikins, and more, it's as close to reality as possible without affecting a human's health and safety while a student learns.

Health & Medicine  
Future-Oriented  
Good for older  
students

## Mighty Mouse

The Mighty Mouse is here to solve any and every puzzle! Watch our wheeled robot navigate to the center of a randomized 16x16 maze.

Robotics  
Programming  
Electronics

# EVERITT LABORATORY CONT

# EXHIBITS

## Motion Controlled Fruit-Ninja

Association of Computing Machinery (ACM) Special Interest Group for Human-Computer Interaction (SIGCHI)

Slice, Dice and Score!

Kid-Friendly  
Smart Technology  
Programming

## Motor Testing Technology

Illinois Space Society

Can you provide more power than a rocket motor? Testing a rocket motor requires a lot of detailed technology. Come try out that technology for yourself using our testing stand that can handle loads up to 400N of force!

Mechanics  
Electronics  
Physics

## Murder Mystery

Tau Beta Pi

Be a detective and help us find the murderer! Discover how engineering skills can help solve this mystery.

Physics  
Good for older students  
Future-Oriented

## Neuro Drive

KSEA

Control a car with your thoughts! Experience the future of human-machine interaction! Using a custom-designed EEG headset and machine learning, this exhibit lets you control an RC car using just your brainwaves. Witness how focus and relaxation can drive technology forward—literally. Dive into the fascinating world where neuroscience meets robotics!

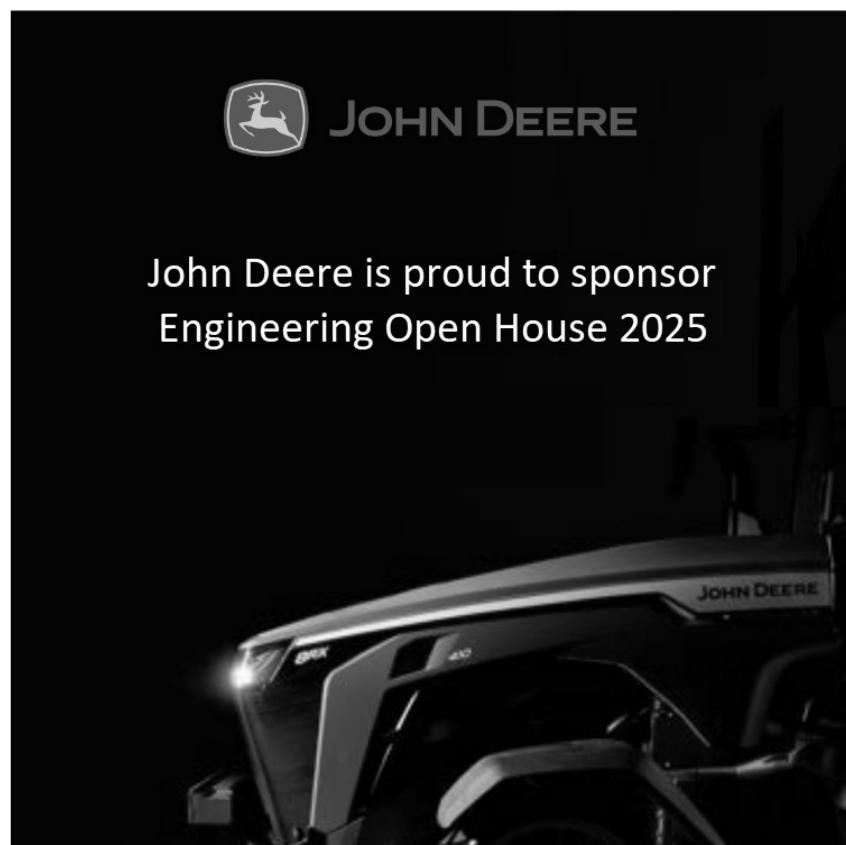
Electronics  
Data Science  
Biology

## Neurogame

Biomedical Engineering Society

Jump into the Game with Your Mind! Control a game using just your eye blinks through cutting-edge brain-computer interface technology!

Electronics  
Programming  
Biology



# EXHIBITS

# EVERITT LABORATORY CONT

## NeuroTechX@UIUC

NeuroTechX@UIUC

Mind Meets Machine: Watch as we turn brain and muscle signals into live control of remote devices. See raw EEG signals transformed through denoising and filtering, powering games like Flappy Bird. Experience the future of tech-driven by the human body—right before your eyes!

Research  
Prosthetics  
Smart Technology

## Plastic Straw Tower Challenge

Engineering Outreach Society

Elevate Your Game: The Straw Tower Test!

Kid-Friendly  
Construction  
Art & Design

## Robotic Shoulder Joint

Biomedical Engineering Society

Interact with our anatomy and watch how we move our shoulders everyday!

Biology  
Electronics  
Robotics

## Sakura MedTech

Sakura Med

Our device is a self-insertable, reusable, tampon-shaped imaging tool with a disposable casing that eliminates the need for a speculum, significantly reducing patient discomfort and anxiety. The software allows for on-the-spot visualization and diagnostics using computer vision while maintaining the option for cell collection, helping physicians provide immediate results while improving patient retention and comfort.

Health & Medicine  
Research  
Future-Oriented

## The Security Drone

AE483 class final project

Detect, Deter, Defend. Our innovative program uses a camera to identify intruders entering a home, apartment, or building. Upon detection, a drone takes flight and emits a loud beep to deter the intruder and alert residents or nearby individuals.

Programming  
Mechanics  
Future-Oriented



**LET'S DO THE WORK.<sup>TM</sup>**

# EVERITT LABORATORY CONT

# EXHIBITS

## THUNDERSCI (Saturday only)

Centennial High School Community of Science-Oriented Students

K-12 Students / Teachers / Parents or who are seeking for some fun introductory STEM activities

Biology  
DNA  
Electronics

## Urinalysis

I-MADE

Home-based Testing System for Geriatric Patients

Health & Medicine  
Biology  
Electronics

## Women's Reproductive Health Hormone Sensor

Biomedical Engineering Society

Invisible Signals, Visible Impact: Unveiling Hormones with Technology! The hormone sensor is a convenient device which combines the technology of glucometers and pregnancy tests to provide an easy at-home test for women's reproductive hormones. It is non-invasive, easy to use, and provides important insights into the hormone cycles, becoming especially useful for monitoring conditions like perimenopause, PCOS/PCOD, and pregnancy. It also allows doctors to analyze these trends and treat/diagnose the women accordingly.

Health & Medicine  
Biology  
Electronics

# GRAINGER LOADING DOCK

## Illini Electric Motorsports

Illini Electric Motorsports

Illini Electric Motorsports is a student team at the University of Illinois at Urbana-Champaign that designs, fabricates, and races, an all electric formula-style race car.

Cars  
Environment  
Sustainable

## Illini Pullers (Quarter Scale Tractor Pull Team)

Illini Pullers

We've all heard of memes, but what about MEMS? Micro-Electromechanical Systems (MEMS) are abundant in everyday life so come by to learn how they work and where they're found!

Design Team  
Agriculture  
Cars

## Illini Solar Car (Dynamic)

Illini Solar Car

Illini Solar Car presents our second and third generation solar-electric vehicles. Both of these cars have driven thousands of miles across the United States on solar power alone.

Sustainable  
Cars  
Design Team

## Off-Road Illini (Baja)

Baja SAE

A powerhouse team of engineers from diverse disciplines, pushing the limits of design and innovation to dominate off-road races across the US every year!

Cars  
Design Team  
Mechanics

# HOLONYAK MICRO & NANOTECHNOLOGY LABORATORY (HMNTL)

## Bionanotechnology Lab

HMNTL

Step into the fascinating world of science and discover the secrets of DNA and viruses—unravel the mysteries of life and explore the tiny agents that shape our world in ways you never imagined!

Biology  
DNA  
Kid-Friendly

## Exploration into the Microscale

Illinois Microtech

Ever wonder how micromachines shape our everyday world? Join us for an up-close look at how these tiny marvels are made and tested, revealing the magic behind microengineering. Experience for yourself how small innovations can have a huge impact!

Mechanics  
Electronics  
Research

# EXHIBITS

# HMNTL CONT

## Holonyak Micro Nano Technology Lab

HMNTL

The Holonyak Micro and Nano Technology Laboratory exhibit demonstrates how the power of the sun can be used to make patterns on special paper. Similar techniques are used to make patterns on harder materials using UV light and photosensitive chemicals called photoresist. These patterned materials form the building blocks of everyday electronics including LEDs, solar cells, computers, and cell phones. Because these devices are at the micro or even the nanometer scale, they must be made in special environments called cleanrooms that control temperature, humidity, light, room pressure, and particles. Special clothing is also required to work in cleanrooms including hoods, suits, boots, and gloves that protect these delicate structures from the particles we generate just by moving. We will have demonstrations of sun/UV light patterning on paper, posters showing microfabrication processing, and students working in the ECE 444 cleanroom laboratory located on the second floor of HMNTL.

Electronics  
Research  
Smart Technology

## Learn about Light with iOptics

iOptics

Discover amazing properties of light and matter, from polarization and diffraction to fluorescence and chirality with a variety of demos assembled by iOptics!

Physics  
Good for older  
students  
Kid-Friendly

# HYDROSYSTEMS LABORATORY

## Fluidized Sand

International Water Resources Association

We can walk on sand, but we can't walk on water. Sand is a solid then, right? Engineers think that way, since they put our buildings on top of it. However, in some weird cases, sand can behave like a fluid, bringing destruction to all kinds of things engineers build.

Water  
Geology

## Hazards of Modern Spillways

International Water Resources Association

Spillways are an essential part of dams. During big storm events, they move enormous amounts of water over dams in a controlled way. But these structures, created to keep us safe, can sometimes become dangerous. Do you know why?

Water  
Construction  
Environment

## Hydrology Sandbox

International Water Resources Association

The exhibit will take place in the Ven Te Chow Hydrosystems Lab. The setup consists of a sandbox and a system of water spraying. This exhibit uses water. Caution tape will separate the areas of safe circulation. Tripping and slipping hazards will be minimized.

Water  
Weather

## Little Big River

International Water Resources Association

Real rivers are mobile and wavy. Our unique meandering flume will allow you to explore the hydrodynamics of big rivers. We will find out why rivers meander and the impact of river bends on human activities, from how we navigate through them to how sedimentation and erosion affect our infrastructure.

Water  
Environment  
Good for older  
students

## Protecting Our Coasts from Waves

Civil and Environmental Engineering - Hydrosystem Lab

At beaches around the world, waves and sand are at constant battle. Sand stops the advance of waves, but waves take grains of sand back from the beach. In this exhibit, we see how eco-engineering can help us solve problems that come when we get ourselves mixed in this war.

Water  
Environment  
Research

# HYDROSYSTEMS LABORATORY CONT

# EXHIBITS

## Sediment Flume

International Water Resources Association

The bed and banks of rivers are not fixed. Erosion and sedimentation processes are constantly changing their shape. They have impacts on natural processes and manmade structures. This small-scale model shows how these processes happen and allows us to see how structures interact with them.

Environment  
Water  
Sustainable

## The Shape of Our Rivers and Coast

International Water Resources Association

We know the shape of the land tells water where it should go. But water also moves land around. This interaction forms the Earth's everchanging landscape. Our stream table shows how waves and rivers move through land and how they also can change the land.

Water  
Environment  
Physics

# LOOMIS LABORATORY OF PHYSICS

## Hybrid Quantum Architectures and Networks (Friday only)

HQAN/UW-Madison

The NSF QLCI Hybrid Quantum Architectures and Networks will tackle the challenge of scaling quantum processors by pursuing an alternative paradigm: distributed quantum processing and networks composed of a hybrid architecture.

Physics  
Research  
Future-Oriented

## Illini Service Dogs Outreach - Pet a Pup

Illini Service Dogs

Come learn about Illini Service Dogs and their organization's mission while interacting with their dogs!

## IQUIST

MRL

Visit the Future of Quantum Information Today.

Research  
Physics  
Future-Oriented

## Physics Playground

Society for Women in Physics

Come see fun physics demonstrations! We will provide short explanations of the physics concepts behind each demonstration.

Physics  
Kid-Friendly  
Water

## Physics Van

Physics Van

Come see Physics Van for their 30 year anniversary shows! We do cool things with liquid nitrogen, lasers, leaf blowers and more! Come to our shows at 11 am and 1 pm on Saturday for a special edition in honor of our anniversary!

Physics  
Kid-Friendly  
Mechanics

## Public Quantum Network

Lorenz Group

See the Future of the Internet Using Quantum Information

Physics  
Future-Oriented  
Research

## Quantum Levitation and Wave Lab

Illinois Quantum Information Science and Technology Center (IQUIST)

Quantum Physics is all around us- you just have to know where to look! Come explore hands on activities on quantum levitation, superconductivity, and waves brought to you by the Illinois Quantum Information Science and Technology Center.

Physics  
Chemistry  
Future-Oriented

## Society of Physics Students

Society of Physics Students

Witness the laws of physics in action! The Society of Physics Students is presenting many demonstrations designed to show you the power and wonder of physics!

Physics  
Mechanics  
Research

# EXHIBITS

# MATERIALS SCIENCE AND ENGINEERING BUILDING

## Exploring Conductivity with Color-Changing Paint

MSE 183

Choose a material and test its conductivity! Will the paint change color?

Electronics  
Chemistry  
Mechanics

## Gecko Adhesives

Material Advantage

Learn how biomimicry inspires strong, reusable adhesives that balance strength and versatility for practical applications!

Smart Technology  
Sustainable  
Future-Oriented

## Hot Ice

MSE 183

Salt, sugar, and everything nice, crystals are everywhere, even HOT ice!

Chemistry  
Molecular Scale  
Kid-Friendly

## Levitating Superconductor

MSE 183

Trains of the future are here. Our exhibit is a superconductor "train", powered by the piezoelectric properties of quartz, levitating over a magnetic track.

Future-Oriented  
Cars  
Physics

## Molten Metallics

Material Advantage

Come see the fascinating properties of gallium and based alloys!

Chemistry  
Electronics  
Kid-Friendly

## Oobleck!

Keramos Honors Fraternity

Have you ever heard of liquid that turns solid when you punch it? Ever wondered why ketchup and honey flow faster when you squeeze them? Explore the world of Non-Newtonian fluids with Oobleck!

Kid-Friendly  
Chemistry  
Physics

## Piezoelectric Materials & Sound, 2D & Moire Materials

UIUC I-MRSEC

Piezoelectric Materials & Sound: Discover materials that can convert mechanical motion into electricity! Learn how this fascinating behavior is used in industries like medicine and music, then generate and view signals you create with your own voice or an instrument! 2D & Moire Materials: Imagine a material just one atom thick! Believe it or not, you could create this yourself with just a pencil and tape. Come learn about the thinnest of material systems, how they are fabricated, and how they may be stacked to create devices with unique properties!

Molecular Scale  
Electronics  
Kid-Friendly

## Polymers in Action: Make a Keychain

Keramos Honors Fraternity

Come create your own custom keychains with Shrinky Dinks while discovering the fascinating science behind plastics. Learn how we can take the same plastic and manipulate it to have different properties.

Art & Design  
Chemistry  
Kid-Friendly

## Pykrete: Ice with the Strength of Steel

MSE 183

Learn how adding various aggregates to a material can drastically change and improve its mechanical and physical properties, turning weak and brittle ice into a formidable building material!

Environment  
Sustainable  
Construction

## Shrinky Dinks Polymer Magic!

MSE 183

Have you ever wondered why shrinky dink plastic gets smaller while most things expand when heat is added? Or have you ever wondered how things such as "flex" tape and self-healing tape work? Come to our exhibit where you get to see hands on how both things work! You also have the ability to design a shrinky dink and tape home and Illini keychain!

Mechanics  
Kid-Friendly  
Chemistry

## The Strongest Glass You've Ever Seen

MSE 183

Strongest Glass You've Ever Seen!

Molecular Scale  
Kid-Friendly  
Mechanics

## Water You Afraid Of?

Material Advantage

We've always learnt that water is shapeless, so how about we make shapes out of it today? Make your favorite 2-D shapes out of water and solve water droplet mazes while exploring and learning about an interesting property called hydrophobicity!

Kid-Friendly  
Chemistry  
Molecular Scale

# MECHANICAL ENGINEERING LABORATORY

## Illinois Robotics in Space

Illinois Robotics in Space

Illinois Robotics in Space presents their drivable Lunar Rover! Navigate a lunar obstacle course and successfully complete tasks to beat the course.

Robotics  
Outer-Space  
Mechanics

## Novel Mobile Robots Lab

Reserch lab in MechSE

See nimble robots walk, jump, and balance at the Novel Mobile Robots Lab (NMBL)!

Robotics  
Research  
Mechanics

## The Department of Climate, Meteorology, and Atmospheric Science

The Department of Climate, Meteorology, and Atmospheric Science

Do you want to know how rainbows form? Do you want to make a cloud? Stop by the CliMAS Department exhibit for hands-on interactions with weather!

Weather  
Environment  
Kid-Friendly

# NATIONAL CENTER FOR SUPERCOMPUTING APPLICATIONS (NCSA)

## AI, Extreme Scale Computing and Scientific Visualization for Gravitational Wave Astrophysics

NCSA Gravity Group

Visit our exhibit and learn how students are developing world class artificial intelligence solutions to study the universe through the observation of gravitational waves produced by the collision of black holes. Play black hole ping pong and take a selfie where you see yourself embedded in a black hole. It will be an out of the world experience!!

Physics  
Data Science  
Kid-Friendly

## Center for Digital Agriculture

Center for Digital Agriculture

Come explore how we are applying technology to agriculture to feed and support a growing global population.

Agriculture  
Robotics  
Programming

## Cinematic Visualizations

NCSA Advanced Visualization Lab

Award-winning, cinematic-style visualizations of science data in our stereo theater.

Outer-Space  
Molecular Scale  
Weather

## Genomics at NCSA

NCSA

Meet NCSA Genomics and learn about the future of computing!

Data Science  
Programming  
Research

## Illinois Science Explorers

NCSA

Visit the Illinois Science Explorers table geared toward ages K-8 for an exciting, hands-on science experience! Play our Science Matching Game where you'll match scientific fields with their corresponding images—like pairing astronomy with a scientist using a telescope. It's a fun and interactive way to challenge your current science knowledge while learning about vastly different fields, ranging from sociology to microbiology. Stop by to try the game, learn more about what we do, and get inspired by the fascinating world of science!

Kid-Friendly

INTERACTIVE, INTERDISCIPLINARY SCIENCE



# BECKMAN INSTITUTE

## OPEN HOUSE

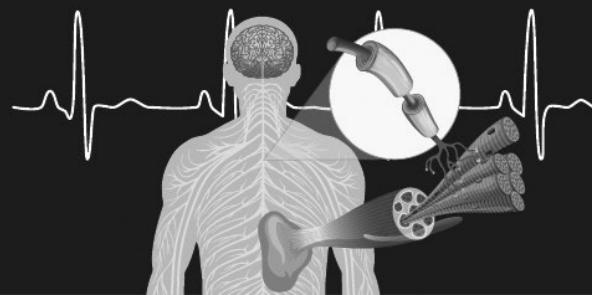
APRIL 5, 9 A.M. TO 4 P.M. &

APRIL 6, 9 A.M. TO 3 P.M.



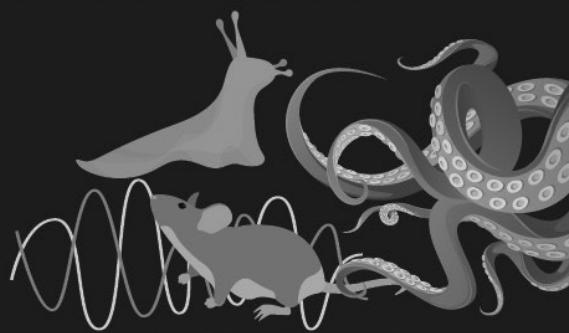
### UNLEASH THE POWER OF YOUR BRAIN

Levitate a ball with your brain, learn how your mind helps your muscles move, and watch your brain waves in action.



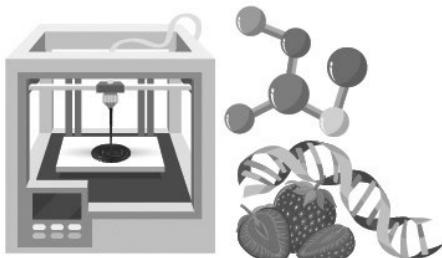
### EXPERIENCE THE WORLD DIFFERENTLY

Look inside the body with medical imaging, enter the microscopic world of insects, and adventure through virtual reality.



### TALK TO THE ANIMALS

Test your hearing against a rat's, learn about your brain from a slug, and cheer on the cyber-octopus as it tackles an obstacle course.



### SEE SCIENCE EVERYWHERE

Extract DNA from a strawberry, build batteries with fruit, 3D-print with chocolate ink, and create a rainbow from the molecules around you.

# NCSA CONT

# EXHIBITS

## Human Centered Design with Design for America (Friday only)

Design for America

Design for America (DFA) is a nationwide network of student-led studios focused on using Human-Centered Design (HCD) to address real-world social challenges. Come visit our exhibit to explore how following HCD principles allows for more interesting solutions to design problems! Using craft supplies, build a house that meets the needs of different animals!

Design Team  
Art & Design  
Kid-Friendly

## Illinois Science Explorers

NCSA

Stop by our table to explore a variety of K-8 activities developed by the Illinois Science Explorers! These quick, hands-on activities showcase exciting research and innovations from the National Center for Supercomputing Applications (NCSA). Try all three activities, each lasting just 5 minutes! These activities make complex computing concepts engaging and accessible for young learners.

Kid-Friendly

## IMMERSE: Center for Immersive Computing

Siebel School of Computing and Data Science

Immerse Yourself in the Future. Imagine What's Possible

Future-Oriented  
Research  
Smart Technology

## Mobile Manipulation Delivery Robot

IMMERSE and UIUC CS Department

A robot that can move in any direction, pick up objects, and navigate through buildings like a human. Get hands-on with a real robot and try out our interactive simulation challenge!

Robotics  
Research  
Programming

## National Center for Supercomputing Applications (NCSA)

NCSA

At NCSA, we aim to bring the brightest minds together to solve the grandest challenges and advance humanity. We do this by harnessing the transformative power of computing, software and data sciences, and fostering a united community dedicated to advancing human knowledge and addressing critical societal challenges through research.

Research  
Programming  
Kid-Friendly

## NCSA Visualization Demonstration

NCSA Visualization Program Office

A wide variety of visualizations created at NCSA as part of important research in astronomy, earth science, biology, and many other fields

Environment  
Art & Design  
Biology

## Students Pushing Innovation Internship Program (SPIN)

NCSA

The National Center for Supercomputing Applications (NCSA) has a rich history of fostering innovation, with many of the best ideas coming from motivated, creative undergraduates. NCSA launched the Students Pushing INnovation (SPIN) internship program in 2012. Our program's mission is to provide University of Illinois undergraduates the opportunity to apply and develop skills that address real challenges aligned with their interests. SPIN interns work on cutting-edge research projects in areas such as AI, quantum computing, high-performance computing, data analysis and visualization, cybersecurity, and more topics that align with NCSA's mission. Want to know more about SPIN projects? Join us for in-person demos and meet the outstanding interns driving this program's success!

Research  
Programming  
Future-Oriented

## UIUC.chat

NCSA/CAII

Your Own Personal AI teaching assistant - plus many more applications.

Smart Technology  
Programming  
Research

## Understanding Personalized Nutrition

NCSA SPIN

Let's do an activity to help understand the importance of a balanced diet and healthy eating, informed by novel research done here at U of I!

Food  
Health & Medicine  
Kid-Friendly

# EXHIBITS

# NCSA CONT

## Visual Nutrition

NCSA and PNI

Through integrating AI technologies, such as machine learning, data analytics, large language models, and computer vision personalized diet plans can now be tailored to individual nutritional needs, preferences, and health goals with unprecedented precision. This new app will allow a person to take a photo of a meal, and it will log nutrients into their personalized nutrition platform which will help design their own nutrition guidance plan.

Health & Medicine  
Data Science  
Programming

# NATURAL HISTORY BUILDING (NHB)

## Frontiers of Geospatial Data Science

Dept of Geography & GIScience, Healthy Regions and Policies Lab

Let's explore the fusion of computer science and geography! Play GeoGuessr and VR games to use your spatial thinking skills. Explore pandemic stories and environmental health data, and make a paper globe to bring home!

Environment  
Research  
Data Science

# NEWMARK CIVIL ENGINEERING LABORATORY

## ASCE

ASCE

Answer engineering trivia for a treat!

Construction  
Environment  
Kid-Friendly

## Engineers in Action Bridge Program

Engineers in Action Bridge Program

Welcome to our station!!! where your creativity and engineering skills come together to solve a timeless challenge: building a bridge to cross a river! Using a variety of miscellaneous materials provided, design and construct the bridge and test it with a little "earthquake!"

Kid-Friendly  
Construction  
Physics

## Engineers Without Borders

Engineers Without Borders

Building Bridges, One Block at a Time: Teamwork for Global Impact! Learn how Engineers Without Borders overcomes physical and cultural boundaries to engineer a better world.

Construction  
Kid-Friendly  
Sustainable

## Highway/Rail Crossing

American Railway Engineering and Maintenance-of-Way Association Student Chapter at UIUC

Come learn more about railroad crossings, find out how they work with a scaled down model of one!

Electronics  
Kid-Friendly  
Good for older students

## Intermodal Game

American Railway Engineering and Maintenance-of-Way Association Student Chapter at UIUC

Who's better at delivering cargo long distances, trains or trucks? Come and play the Intermodal Game and see if you can deliver the most cargo in the shortest amount of time!

Sustainable  
Kid-Friendly  
Good for older students

## Model Train Switching and Sorting

American Railway Engineering and Maintenance-of-Way Association Student Chapter at UIUC

Come see (and maybe operate) a functional model railroad and learn about the aspects that are involved in successfully operating a profitable railroad!

Electronics  
Kid-Friendly  
Good for older students

## Power of Clean Water and Tree Rings

SESE

See how water, the most important resource for life, goes from dirty to clean and build a molecular model of water toxins.

Environment  
Water  
Chemistry

## NEWMARK CONT

## EXHIBITS

### Railroad Signalling System

American Railway Engineering and Maintenance-of-Way Association Student Chapter at UIUC

Ever wondered how trains are able to stay apart from each other on the railroad? Come find out how a railroad signalling system works from an actual railroad!

Electronics  
Smart Technology  
Good for older students

### Train & Track Dynamics Demo

American Railway Engineering and Maintenance-of-Way Association Student Chapter at UIUC

Come learn about the incredible engineering decisions behind the design of train wheels and tracks that ensure trains can stay on track even if there's a curve!

Mechanics  
Kid-Friendly  
Good for older students

### Train Simulator

American Railway Engineering and Maintenance-of-Way Association Student Chapter at UIUC

Come drive a virtual train simulating real conditions with a controller based on real train controls!

Electronics  
Kid-Friendly  
Good for older students

### WCEE Sustainable Energy Solutions

Women in Civil and Environmental Engineering

The Women in Civil and Environmental Engineering will be showcasing a Water Power Generator, designed to demonstrate how water can be used to produce clean, renewable energy. Learn about sustainable energy solutions, including hydropower, wind power, and more!

Sustainable Water Future-Oriented

## NORTH QUAD

### Bioelectricity: Visualizing Neural Signals

Biomedical Engineering Society

When you hear a loud crash or touch a hot stove, this sensation races to your brain at more than 250 mph. Our exhibit shows how this complicated electrical process works using a simple analogy -- water -- which flows through our interactive, supersized 6-foot long neuron! Intuitively understand how Multiple Sclerosis, Paralysis, and Botox actually work!

Health & Medicine  
Good for older students  
Electronics

### ISSA - RF Project

Illinois Semiconductor Student Alliance

Speak to your friends at a distance using transistors!

Electronics  
Smart Technology  
Physics

## OBSERVATORY

### Spectacular Solar Observing

Astronomical Society at the University of Illinois

Experience the Sun like never before! Peer through our historic 129-year-old Dome Telescope to explore the wonders of our Universe. Dive into the science behind how the Sun powers all life on Earth and explore the fascinating chemical composition of our stars and galaxies. Don't miss this exciting opportunity to discover the wonders of our universe—all at the heart of campus at the U of I Observatory!

Outer-Space Physics  
Kid-Friendly

# EXHIBITS

# SIDNEY LU MECHANICAL ENGINEERING BUILDING (LUMEB)

## 3D Printed FPV Drone

American Society of Mechanical Engineers

Designed and hand-built by students, this 3D-printed FPV drone carries payloads and navigates courses.

Design Team

Planes

Future-Oriented

## 6-Axis Robotic Arm

American Society of Mechanical Engineers

6-Axis Robotic Arm: Draw your own picture with light or sand!

Robotics

Programming

Art & Design

## App-Controlled Nerf Turret - NSBE

National Society of Black Engineers (NSBE)

Engineering precision meets Nerf Fun! - Step into the future of tech innovation with NSBE's EOH project: an app-controlled turret that combines engineering precision and Nerf fun. Watch live demonstrations as the turret targets and fires Nerf bullets with impressive accuracy—all controlled through a custom-built mobile app. Visit our booth in order to explore the technology behind this project, and learn how our NSBE technical team designed and programmed the system from scratch!

Robotics

Mechanics

Electronics

## ArachnoBot

American Society of Mechanical Engineers

Nature's Mechanics in Motion! Take control of ArachnoBot, a spider-inspired robot showcasing the mechanics of multi-legged motion. Learn how nature's designs enhance stability and adaptability in robotics, with applications in search-and-rescue and space exploration. Explore the robot's code, design process, and interactive demos in this hands-on exhibit!

Robotics

Mechanics

Design Team

## Autonomous Driving Demo

Illini EV Concept

AI-Powered Self-Driving Car Simulation! See how self-driving cars actually work with our autonomous simulation! Watch as a virtual vehicle navigates a simulated environment entirely on its own, reacting to various environmental elements. This simulation reflects how companies such as Tesla and Rivian develop their self-driving cars after they receive input from their sensors.

Robotics

Electronics

Programming

## Carbon Capture & Sweet Chemistry

AIChE

Carbon Capture and Sweet Chemistry: Exploring Solutions for a Greener Future. Discover the fascinating world of carbon capture technology with our mini projects! Watch water flow in a distillation setup, see how CO<sub>2</sub> can be stored in rock formations, and experience the real effects of this greenhouse gas. Plus, enjoy a fun twist—learn about the chemistry of sugar crystals while indulging in freshly made cotton candy!

Chemistry

Sustainable

Food

## “Drone” Hunt: Obstacle Avoidance

Axcis Lab

Have you ever wished to knock a drone out of the sky? Say no more, and step on down to “Drone” Hunt: Obstacle Avoidance!! We encourage you to try and knock down our drone, designed and built to avoid moving obstacles and projectiles. In this game, you get three tries to throw a stuffed animal from 10-15 feet away and hit our drone! With use of robotic perception, trajectory generation techniques, and quick drone control, we developed a fun arcade game where YOU can try to defeat our drone, and if you win, you may walk home with your own stuffed animal!

Robotics

Smart Technology

Programming

## From Scrap to Spool: 3D PLA Recycler

American Society of Mechanical Engineers

Discover how discarded 3D prints are transformed into reusable filament through our innovative recycling system. Hands-on activities and live demos bring engineering and sustainability to life!

Sustainable Environment  
Kid-Friendly

## Cithub Repository Classifier

Open Source At Illinois

Open Source at Illinois presents a project utilising LLM models to improve the user search experience through new upcoming technologies. This project showcases the ability to use GPT in order to refine the search results in order to provide you just the repository you are looking for.

Programming  
Data Science  
Research

## Ground Shakers

Korean-American Scientists and Engineers Association

Discover the forces that bring buildings down! Explore seismic engineering with interactive simulations to calculate forces and pinpoint where collapses begin—see how innovative designs save lives!

Construction  
Sustainable Mechanics

## Human Hamster Wheel

MechSE Makerworks Club

Step into our Human Hamster Wheel and Experience the Power of Motion!

Kid-Friendly  
Mechanics  
Physics

## IATP

American Society of Mechanical Engineers

Come see devices designed to help people with disabilities do a variety of daily tasks. We will be hosting mini competitions to see who can wash dishes the fastest with our product.

Design Team  
Mechanics  
Kid-Friendly

## Intelligent Mattress Topper

American Society of Mechanical Engineers, Illini MediMech, Carle College of Medicine

Revolutionizing Comfort and Care: The Intelligent Mattress Pad for Patients! This is an intelligent mattress pad for patients. The goal is to minimize pressure injuries in hospitals and reduce load on work staff. This pad automatically detects abnormalities and works to relieve patients from pain.

Smart Technology  
Health & Medicine  
Electronics

## Laboratory for Advanced Space Systems at Illinois (LASSI)

LASSI/ ENG 491

UIUC's laboratory for Advanced Space Systems is training the next generation of engineers on the design, development, and testing of CubeSats.

Outer-Space  
Electronics  
Research

## NovoPrint: Multi-Extruder Robotic Printing Arm

An exhilarating, futuristic spectacle that combines robotics and 3D printing to produce real-life CAD models!

Research  
Kid-Friendly  
Programming

## pAInt me a picture photo booth

Alpha Omega Epsilon

Combining two AI concepts to bring you a emotions-based photo booth!

Programming  
Smart Technology  
Kid-Friendly

## Pilot Your Drone: Air Traffic Adventureland

Transportation and Development Institute (T&DI)

Take control of your drone, navigate dynamic airways, and discover the secrets of air traffic flow optimization in this thrilling, hands-on board game adventure. Can you pilot your way to success without a crash?

Smart Technology  
Future-Oriented  
Planes

# EXHIBITS

# LUMEB CONT

## Prosthetic Robotic Arm

Discover how robotic prosthetics are reaching new heights in fine motor control. This innovative glove introduces dynamic programmability, allowing users to control prosthetics beyond basic mirror mode. With sensors on individual fingers, it interprets organic hand gestures, enabling seamless switching between multiple preset hand positions. Experience the future of intuitive, personalized movement!

Prosthetics  
Robotics  
Smart Technology

## The Rheology Zoo

### Ewoldt Research Group

We demonstrate simple and complex materials (water, honey, sand, therapy putty, polyethylene oxide solution) to show different rheological phenomena like how these materials under different conditions can behave like a solid or a liquid, and see these phenomena in daily life products such as toothpaste, hand sanitizer, moisturizing cream, ketchup, etc.

Research  
Mechanics  
Chemistry

## Robotic Hand

### Pi Tau Sigma

This is an interactive robot hand controlled by audiences.

Robotics  
Prosthetics  
Future-Oriented

## Rube Goldberg Machine

### Rube Goldberg Society

This chain reaction machine uses household items to complete a simple task in a complicated way. This year, our machine will complete the task: "feed a pet."

Design Team  
Physics  
Mechanics

## SEM Drawmaton

### Rube Goldberg Society

The SEM Drawmaton is a completely mechanical machine that can draw any picture. It uses a set of linkages and cams that store the information about the drawing. When the cams are turned, a drawing is produced.

Mechanics  
Art & Design  
Robotics

## SEM Elliptical Pool Table

### Society for Engineering Mechanics (SEM)

The SEM Elliptical Pool Table is a twist on the classic game, designed to guarantee successful shots like never before. With its unique elliptical shape, any ball placed at one focus point will always sink into a pocket at the other when struck with the right force.

Mechanics  
Physics  
Kid-Friendly

## Sigma Phi Delta Engineers

### Sigma Phi Delta Fraternity

Come and join the Sigma Phi Delta Engineers to earn a high score on a self made claw machine game and learn about the engineering principles necessary to create it!

Mechanics  
Electronics  
Robotics

## The S'mores Machine

### American Society of Mechanical Engineers

Watch as S'mores roll off our assembly line. Stop by our booth for a demonstration of manufacturing in action and you might even walk away with a S'more!

Robotics  
Food  
Kid-Friendly

## Sugar Rush Spin Pinball Machine

### Women in Mechanical Science and Engineering

Play with our exciting Candyland themed pinball machine, handcrafted from wood with eye-catching 3D-printed and laser-cut details. Discover the mechanical engineering behind this classic game with gears, springs, and more!

Mechanics  
Kid-Friendly  
Physics

## Transit Taujectory Marble Wall

### Theta Tau Marble

Roll Through Campus: A Human-Sized Marble Run Mapping Urbana-Champaign's Bus Routes at UIUC!

Art & Design  
Mechanics  
Electronics

## SWEnie of the Crime

Society of Women Engineers

Step into the world of chemistry, biomaterials, and biology to discover how forensic scientists collect DNA from crime scene samples! You'll extract DNA from strawberries using everyday materials. Discover crime-solving technology by creating your own working circuit using just a pencil! Design an LED circuit to uncover how electrical pathways power real-life crime-fighting tools. Get into the minds of criminals as you build a model of a building that could hold key clues at a crime scene. Work solo or with friends, using paper and tape or popsicle sticks and clothespins.

DNA  
Electronics  
Mechanics

## Visualization of Gradient Descent

Professor Angrave Lawrence's Research Group

Dive into the World of Optimization: Watch Gradient Descent in Action!

Data Science  
Programming  
Research

## VoxLink

American Society of Mechanical Engineers

"Step into the future of voice and translation technology—try it, feel it, shape it!" / Explore our AI translator product in action! Discover the innovation behind the device with live demos and the chance to try it yourself. Don't be afraid of sharing your feedback and ideas. This is your chance to be part of the future of AI-powered communication.

Smart Technology  
Mechanics  
Programming

## WCS Dev Ada

Women in Computer Science

Code. Collaborate. Create. Discover the transformative projects developed by participants of WCS' Dev Ada project cycle. This exhibit highlights innovative software solutions crafted by aspiring developers who have collaborated throughout the year to bring these ideas to life.

Programming  
Smart Technology  
Data Science

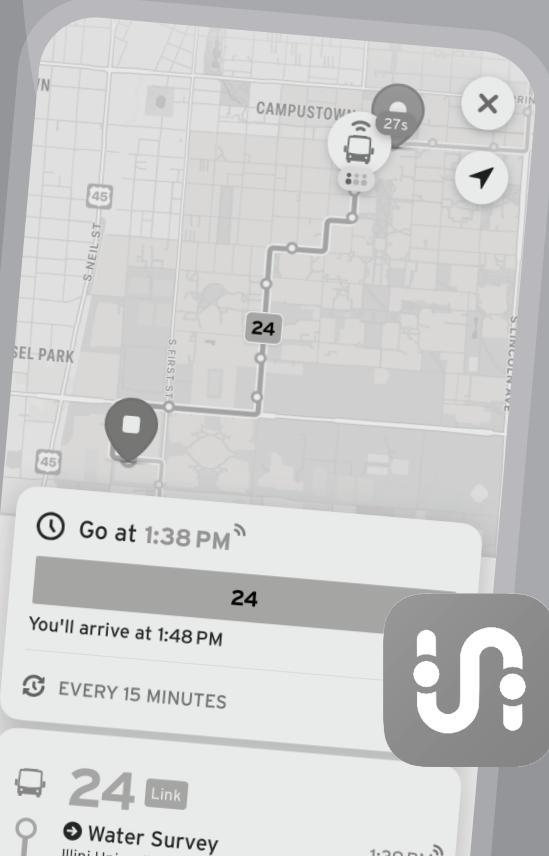


## Your Real-Time Travel Companion is Here!

MTD passengers can enjoy premium features at no cost in *Transit*.

Plan your trip.  
Track your ride.  
Pay your fare.

*All in Transit.*



# EXHIBITS

# SIEBEL SCHOOL FOR COMPUTING AND DATA SCIENCE

## AI Photobooth

Artificial Intelligence

We will email the participants the pictures and then delete right away off of the computer.

Kid-Friendly  
Programming  
Research

## AI Vision: Adaptive Face Masking

Black, Indigenous, and Latinx in Tech (B[U]ILT)

Avatar Yourself: Customize Your Face in Real-Time! Discover the magic of real-time facial detection and digital customization! In this exhibit, you'll see yourself on a live video feed with a personalized avatar overlay, created using advanced machine learning technology. Visitors can select and customize preset avatars through an interactive web app, which updates instantly on the live display. Engage with this innovative experience that showcases the power of modern computing in a fun and accessible way for all ages!

Programming  
Future-Oriented  
Kid-Friendly

## Building in Minecraft, View Modes of 360-Degree Video, and Unplugged Activities

CS STARS

Exciting interactive activities

Electronics  
Kid-Friendly  
Programming

## Games in Computer Science

Siebel School of Computing and Data Science

Come learn about how computer science is used in games! Participation is encouraged!

Kid-Friendly  
Programming  
Research

## Interactive Activities with AI

Siebel School of Computing and Data Science

Come learn about and interact with artificial intelligence (AI)!

Kid-Friendly  
Programming  
Research

## Lab Tour of IoT lab

IoT Lab

Lab Tour of IoT lab.

Mechanics  
Combustable  
Outer-Space

## Lab Tour of Wireless

iSENS Lab

Visitors will be given the opportunity to try VR demos the lab has created and learn about radar and the kind of experiments that happen in the lab.

Geology  
Physics  
Good for older students

## Learn About Research in Computer Science

Siebel School of Computing and Data Science

Come learn about cutting edge research in computer science. There will be multiple video demonstrations of computer science research being done at UIUC.

Kid-Friendly  
Programming  
Research

## Unplugged Activities in Computer Science

CS STARS

Hands on nonelectronic interactive activities.

Kid-Friendly  
Programming  
Research

# TALBOT LABORATORY

## Build a Reactor Simulation

American Nuclear Society

Get a look under the hood of a nuclear reactor using an interactive simulation!

Sustainable  
Programming  
Mechanics

## Cloud Chamber

American Nuclear Society

Come see radiation with your own eyes! A cloud chamber uses differences in temperature to create a cloud of supersaturated alcohol, allowing for the trails left by subatomic particles to become visible. Cosmic background radiation, or the subatomic particles that are all around us, become visible within the chamber, as well as radiation emitted from certain elements.

Physics  
Kid-Friendly  
Health & Medicine

# TALBOT CONT

# EXHIBITS

## CT Scanner

American Nuclear Society

See Through Anything: How Light Brings the Inside Out!

Health & Medicine  
Physics  
Good for older students  
Kid-Friendly Physics  
Outer-Space

## DC Glow

American Nuclear Society

An up-close demonstration of a plasma, the fourth state of matter, being created and manipulated using electric fields and permanent magnets.

Outer-Space  
Data Science  
Kid-Friendly

## Exploring the Future with NASA

Aerospace Engineering

Join NASA's Glenn Research Center and Illinois Space Grant for an interactive experience that brings space exploration to life! Learn about NASA's Artemis program, which will return humans to the Moon and pave the way for future missions to Mars.

Physics  
Sustainable Research

## The Fusor

American Nuclear Society

Witness the creation of a high-energy plasma inside of a miniature fusion reactor and learn about fusion energy.

Environment  
Sustainable Future-Oriented

## Geiger Counters/Fiesta-Ware

Women In Nuclear

The radiation science table demonstrates how Geiger counters detect radiation.

Outer-Space  
Sustainable Physics

## Ion Thruster

American Nuclear Society

Ion propulsion harnesses electrical power and ionized air to generate thrust, like a fan without blades!

Sustainable Construction  
Kid-Friendly

## Model Nuclear Reactor

American Nuclear Society

Witness the inner workings of a model nuclear fission reactor, where flowing lights and spinning motors bring the nuclear power generation to life

Sustainable Environment  
Future-Oriented

## Mousetrap Reactor

Women In Nuclear

Demonstration of how nuclear chain reactions work in a reactor using mouse traps and ping-pong balls.

Chemistry  
Kid-Friendly  
Sustainable

## Nuclear Enrichment Centrifuge and Diffusion

American Nuclear Society

Discover the science behind nuclear fuel enrichment! See the power of both centrifuge and diffusion methods!

Electronics  
Music  
Kid-Friendly

## Plasma Speaker

American Nuclear Society

Experience music made by pure electrifying plasma.

Physics  
Kid-Friendly  
Good for older students  
Sustainable Environment  
Future-Oriented

## Plasma Toroid

American Nuclear Society

Glowing spinning donut -- It's not magic, it's plasma

## Plinko Trivia Game

Women in Nuclear

Play Plinko Trivia game in order to learn fun facts about Nuclear related topics.

# TRANSPORTATION BUILDING

# EXHIBITS

## CACMS (Center for Autonomous Construction and Manufacturing at Scale)

UIUC Autonomous and Unmanned Vehicle Systems Lab (AUVSL)

"Autonomous Engineering— No Strings Attached!"

Robotics  
Research  
Construction

## Efficiency in Transportation

Institute of Transportation Engineers

This exhibit is designed to make our transportation more efficient and faster. Less traffic, clean air, fast travel.

Sustainable  
Environment  
Future-Oriented

## Egg Drop

Institute of Industrial and Systems Engineers

Put your design skills to the test with this exciting egg drop challenge! With a limited budget, your mission is to construct a "spacecraft" capable of delivering your fragile supplies safely to the target zone. The most resourceful and egg-efficient designs will earn a spot on the leaderboard!

Kid-Friendly  
Design Team  
Construction

## ISE Senior Capstone

Institute of Industrial and Systems Engineers

Senior ISE students will proudly present their Senior Design Projects, developed over the course of the Fall semester. The event will feature a variety of engaging poster displays, complemented by physical models of designs where applicable. Guests are invited to explore the room, interact with the exhibits, and gain insight into the innovative solutions crafted by the students.

Good for older  
students  
Research  
Future-Oriented

## Photogrammetry 3D Scanner

Institute of Industrial and Systems Engineers

Participants will get to take part in a fun demonstration of how 3D technology is used. They will be able to be scanned into a 3D model and see how a 2D image can be converted into a 3D model.

Robotics  
Smart Technology  
Future-Oriented

## Product Design Lab Solar Farm Design Challenge

Learn about generative design and compete in a CAD-based solar farm design challenge.

Art & Design  
Environment  
Research

## Product Design Laboratory

Department of Industrial and Enterprise Systems Engineering

Explore the intersection of technology and engineering in our interactive 3D modeling exhibit.

Kid-Friendly  
Art & Design  
Smart Technology

## Shark Tank Challenge

Institute of Industrial and Systems Engineers

Participate in a recreation of the Shark Tank show by solving a given problem and pitching the potential solution to a group of judges. This interactive game will allow students to practice entrepreneurship and sales, while using engineering skills to explore creative solutions.

Good for older  
students  
Design Team  
Future-Oriented

## Supply Chain/Optimization Maze

Institute of Industrial and Systems Engineers

Participants must decide on the shortest path between two points (to resemble supply chain operations/optimizations). Cameras will be set up in the room to capture the maze, and a computer vision program will analyze participant traffic and optimal routes. Participants will learn about the industrial applications of AI, automation and supply chain.

Smart Technology  
Kid-Friendly  
Data Science

INTERACTIVE, INTERDISCIPLINARY SCIENCE



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April 5, 9 a.m. to 4 p.m.

&

April 6, 9 a.m. to 3 p.m.



Meet KEMAR the listening robot.



Levitate objects with  
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Zoom in on cicadas, beetles,  
and bees with a microscope.



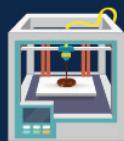
Cheer on the cyber-octopus  
as it tackles an obstacle course.



Use medical imaging to find a  
hidden prize.



Practice 3D-printing with  
chocolate ink.



Go on a virtual reality adventure.



Learn about your brain  
(from a slug).

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**Alicia Kim**  
**Co-Director**  
Bioengineering  
Senior



**Alyssa Huang**  
**Co-Director**  
Electrical Engineering  
Masters



**Aparna Kamath**  
**Director of Exhibits**  
Physics  
Junior



**Huamin Gao**  
**Director of Facilities  
and Equipment**  
Chemical Engineering  
Senior



**Vishnu Bala**  
**Director of Special  
Events**  
Aerospace Engineering  
Junior



**Arpit Bansal**  
**Director of Special  
Events**  
Computer Science  
Junior



**Adithi Bikkavilli**  
**Secretary/Treasurer**  
Computer Engineering  
Sophomore



**Karan Jain**  
**Startup Showcase  
Director**  
Industrial Engineering  
Senior



**Katerina Baxter**  
**Middle School Design  
Director**  
Bioengineering  
Senior



**Manasi Bhargava**  
**High School Design  
Director**  
Engineering Mechanics  
Sophomore



**Ella Greer**  
**Senior Director of  
Outreach**  
Aerospace Engineering  
Junior



**Hiruni Bopearatchy**  
**Junior Director of  
Outreach**  
Mechanical  
Engineering  
Sophomore

# EOH CENTRAL COMMITTEE



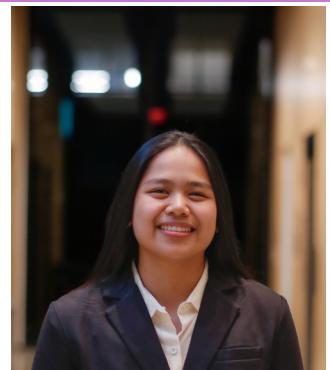
**Tessa Waldhoff**  
Junior Director of Outreach  
Bioengineering Freshman



**Archir Luhana**  
Director of Advancements  
Electrical Engineering Sophomore



**Arryan Kanodia**  
Senior Director of Hospitality  
Industrial Engineering Senior



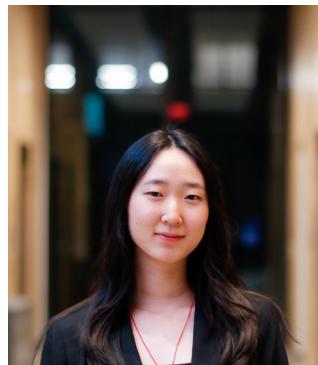
**Kate Pactol**  
Junior Director of Hospitality  
Mechanical Engineering Sophomore



**Keya Patel**  
Director of Judging and Awards  
Bioengineering Senior



**Yoon Lee**  
Director of Marketing  
Chemical Engineering Junior



**Emily Liu**  
Director of Marketing  
Bioengineering Senior



**Aditi Shah**  
Director of Marketing  
Computer Science Senior



**Maddie Conrad**  
Director of Visitor's Information  
Physics Junior



**Shreya Gosavi**  
Director of Visitor's Information  
CS + Crop Sciences Sophomore



**Shivaditya Gohil**  
Senior Corporate Director  
Computer Engineering Senior



**Roshni Mathew**  
Senior Corporate Director  
Computer Engineering Junior

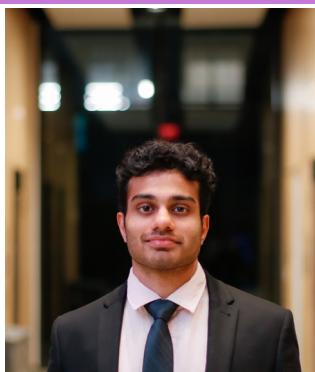
# EOH CENTRAL COMMITTEE



**Aarya Patel**  
Junior Corporate  
Director  
Civil Engineering  
Junior



**Madeline Kim**  
Junior Corporate  
Director  
Industrial Engineering  
Freshman



**Oviyan Rathi**  
Director of Traffic &  
Safety  
Industrial Engineering  
Senior



**Tushar Jain**  
Senior Director of  
Technology  
Industrial Engineering  
Junior



**Atsi Gupta**  
Junior Director of  
Technology  
Computer Engineering  
Junior



**Shaan Doshi**  
Junior Director of  
Technology  
Computer Science  
Sophomore



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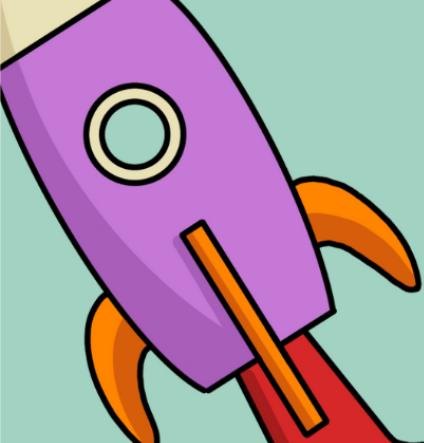
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