2020 E-DAY PRESENTED BY:

Lexmark™

HUNGRY?

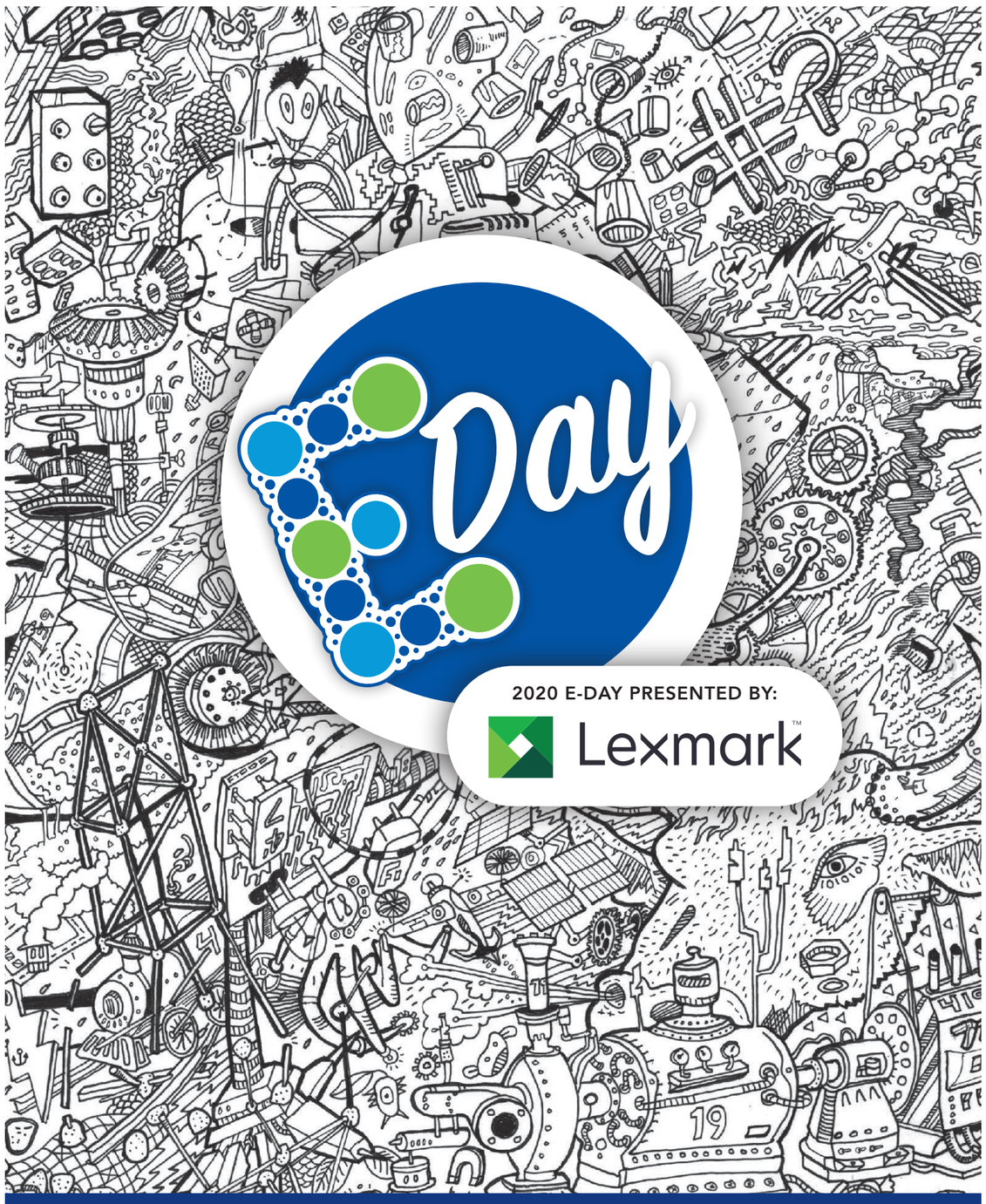
Grab a bite at **Rising Roll** in the **Ralph G. Anderson Building**

IN CASE OF EMERGENCY

If you have an emergency and need assistance please call **859-257-2451** or visit the **E-Day Headquarters** in **108A Ralph G. Anderson Building**.

College of Engineering

@UKYengineering



ENGINEERS DAY OPEN HOUSE

SATURDAY, FEB. 22, 2020 • 9:00 a.m. – 1:00 p.m.

Contests & Exhibits (Alphabetical Order)	Building	Room
3D Doodling in STEM	ASTeCC	Basement
A quantum computer?	FPAT	581
Acoustics Laboratory	RGAN	6
Advanced Hand Eye Coordination Challenge - High School Focused	FPAT	263
After the Flush: Do you know where you wastewater goes?	FPAT	260
After the Storm	FPAT	255
Ask An Engineer	RGAN	2nd Floor
Augmented Reality Sandbox	OHR	Basement
Balloons! Balloons!	FPAT	257
Biomechanics of Whole Body	FPAT	253
Biomedical Engineering Society	FPAT	253
Biomedical Optics Lab	FPAT	253
Biosystems Engineering Information	FPAT	257
Bucket Tower Challenge	FPAT	3rd Floor Lobby
Bullard - A Century of Safety	OHR	112
Cameras as computers	FPAT	581
Cardiac Rhythm Lab	FPAT	253
Center for Applied Energy Research	ASTeCC	Basement
Chemical & Materials Engineering Program Information	FPAT	1st Floor
Computer Science Showcase and Mini Workshops	RGAN	102, 111, 114
DIY Candy Tablets	FPAT	59A
ECE Maker Space	FPAT	551
ECE Senior Design Projects	FPAT	453F
Egg Drop Competition ★	OHR	**2nd Floor**
Electrification of Our Communities	RGAN	Atrium
Electromagnetics	FPAT	682
Elephant Toothpaste with AAPS	FPAT	59A
Energy generation	RGAN	Atrium
Engineering Origami with a Tessellated Twist	FPAT	263
Everything is Science	ASTECC	2nd Floor
Factory of the Future at Parker Hannifin	OHR	2nd Floor
Fire Tornado	Outside	Courtyard*
Formula Kentucky: FSAE Racing Team	Outside	Courtyard*
Fun with Computer Science	RGAN	1st Floor
Fun with Dash and Dot	FPAT	351
Fun with Fluids	FPAT	1st Floor
Fun with Sand	FPAT	16
Gato Del Sol VI	Outside	Courtyard*
Geothermal HVAC System Model	Outside	Courtyard*
Go with the flow (Floodplain Simulation)	RGAN	Basement
Headqurters	RGAN	**108A**

Contests & Exhibits (Alphabetical Order)	Building	Room
Hemp	FPAT	255
Hour of Code	RGAN	103
How Aluminum Products Are Made	FPAT	Basement
How is Cotton Candy Made?	FPAT	257
How strong is YOUR house?	OHR	1st Floor
Innovation Center	RGAN	202
Innovation in Chemical Engineering	FPAT	59A
Intelligent Kinova Gen3 Collaborative Robotic Arm	FPAT	455
Intelligent Machines and Brain	CRMS	209
K-Car Competition	CRMS	10
Keeping Tabs on Cells in the Body	FPAT	253
Keeping Tik Tok Ticking	OHR	1st Floor
Kentucky American Water: Stronger from the Ground Up	OHR	1st Floor
Kentucky Children's Hospital	Outside	Courtyard*
Kentucky Engineering Exposure Network	OHR	220
Kentucky Geological Survey	OHR	Basement
Kentucky Operation Lifesaver / Railroad Safety Education	OHR	1st Floor
Launch Objects Through the Air with Electricity	FPAT	591
Learn About Electrical and Computer Engineering	FPAT	453
Lego Bridge Build Challenge	OHR	1st Floor
Lego Earthquake Towers and Lego Dams	OHR	2nd Floor
LEXMARK Activities	RGAN	207
Lift Them Up	Outside	Courtyard*
Lignin as a 3-D Printing Feedstock for Sustainability	FPAT	255
Lip Gloss Manufacturing	FPAT	59A
Materials Science Circus	FPAT	71
Math and Logic Puzzles	RGAN	203
ME Senior Design Prototypes and Posters	RGAN	3rd Floor
Mini City	RGAN	Atrium
Mining Engineering - Tools, Toys, Techniques	OHR	Basement
Mining Engineering: Can You Dig It?	OHR	2nd Floor
Nanoscale 3D printing	ASTeCC	361, 365, 369
NASA Robot	FPAT	659
NCWIT Aspirations in Computing and AspireIT	ASTECC	2nd Floor
Neural Systems Lab	FPAT	253
Newton's Attic	ASTECC	Basement
Outreach Ambassadors	ASTECC	Basement
Paper Airplane Contest ★	RGAN	**Basement**
Paper Bridge Competition ★	OHR	**226**
Photo Booth - What Type of Engineer will you be?	ASTeCC	Basement
Pipe Cleaner Structures	FPAT	263

Contests & Exhibits (Alphabetical Order)	Building	Room
Popcorn!	FPAT	257
RailCATS	OHR	54
R. J. Corman Railroad Group	OHR	1st Floor
Rain Cloud in a Jar	FPAT	Lobby (150F)
Rainbow Liquid Densities	FPAT	263
RC Pulling Tractors	FPAT	255
Ready for the races!	ASTECC	Basement
Robot Maze	FPAT	462
Rocketeers	Outside	Courtyard*
Rotating Room of Wonder [Vomit Vortex]	ASTECC	Basement
Rube Goldberg Machine Design & Build	RGAN	203
See the Sun for Free	Outside	Courtyard*
She Can STEM	OHR	2nd Floor
Snap Circuits	FPAT	473
Society For Biomaterials - Bone Activity	FPAT	253
Space-age Material for Bridge Repair	OHR	226
SpaceLex	OHR	1st Floor
Speed Bent Building Contest ★ **and FIRST Lego League Robotics Exhibition**	RGAN	**Commons**
STEAM Academy Showcase	OHR	Basement
Storm Water Control / WPSC Club	OHR	1st Floor
Straw Rockets	FPAT	259
Stream Restoration	FPAT	255
Super Structures	RGAN	203
The Great Boat Race 2020	OHR	Basement
The Kentucky Re-Entry Universal Payload System (KRUPS)	CRMS	112
Toyota Learning Center	FPAT	3rd Floor - Tutoring Area
Transportation Quiz Bowl	OHR	226
UAS and Remote Sensing in Agriculture	FPAT	255
Virtual Reality Demo	RGAN	211
Volcano Contest ★	FPAT	**59A**
Watershed in Pieces	RGAN	Basement
We're Building a Better Tomorrow	ASTECC	Basement
What do Biosystems and Agricultural Engineers do?	FPAT	257
What makes a material recyclable?	FPAT	71
Writing with Robots	ASTECC	Basement

ASTeCC FPAT OHR RGAN CRMS

★ **Contests!**

**weather permitting*

Oliver H. Raymond Building (OHR)

Exhibit	Room
BASEMENT	
Augmented Reality Sandbox	Basement
Kentucky Geological Survey	Basement
Mining Engineering - Tools, Toys, Techniques	Basement
STEAM Academy Showcase	Basement
The Great Boat Race 2020	Basement
RailCATS	54
FIRST FLOOR	
Bullard - A Century of Safety	112
How strong is YOUR house?	1st Floor
Keeping Tik Tok Ticking	1st Floor
Kentucky American Water: Stronger from the Ground Up	1st Floor
Kentucky Operation Lifesaver / Railroad Safety Education	1st Floor
Lego Bridge Build Challenge	1st Floor
R. J. Corman Railroad Group	1st Floor
SpaceLex	1st Floor
Storm Water Control / WPSC Club	1st Floor
SECOND FLOOR	
Egg Drop Competition	**2nd Floor**
Factory of the Future at Parker Hannifin	2nd Floor
Kentucky Engineering Exposure Network ★	220
Lego Earthquake Towers and Lego Dams	2nd Floor
Mining Engineering: Can You Dig It?	2nd Floor
Paper Bridge Competition	**226**
She Can STEM	2nd Floor
Space-age Material for Bridge Repair ★	226
Transportation Quiz Bowl	226

Ralph G. Anderson Building (RGAN)

Exhibit	Room
BASEMENT	
Acoustics Laboratory	6
Go with the flow (Floodplain Simulation)	Basement
Paper Airplane Contest ★	**Basement**
Watershed in Pieces	Basement
FIRST FLOOR	
Mini City	Atrium
Speed Bent Building Contest and ★ FIRST Lego League Robotics Exhibition	**Commons**
Electrification of Our Communities	Atrium
Energy generation	Atrium
Fun with Computer Science	1st Floor
Computer Science Showcase and Mini Workshops	102, 111, 114
Hour of Code	103
Day Headquarters	**108A**
SECOND FLOOR	
Ask An Engineer	2nd Floor
Innovation Center	202
Math and Logic Puzzles	203
Rube Goldberg Machine Design & Build	203
Super Structures	203
LEXMARK Activities	207
Virtual Reality Demo	211
THIRD FLOOR	
ME Senior Design Prototypes and Posters	3rd Floor
COURTYARD/OUTSIDE	
Fire Tornado	Courtyard*
Formula KY FSAE Racing Team	Courtyard*
Gato Del Sol VI	Courtyard*
Geothermal HVAC System Model	Courtyard*
Kentucky Children's Hospital	Courtyard*
Lift Them Up	Courtyard*
Rocketeers	Courtyard*
See the Sun for Free	Courtyard*

**weather permitting*

Center for Robotics and Manufacturing Systems (CRMS)

Exhibit	Room
BASEMENT	
K-Car Competition	10
FIRST FLOOR	
The Kentucky Re-Entry Universal Payload System (KRUPS)	112
SECOND FLOOR	
Intelligent Machines and Brain	209

F. Paul Anderson Tower (FPAT)

Exhibit	Room
BASEMENT	
Fun with Sand	16
DIY Candy Tablets	59A
Elephant Toothpaste with AAPS	59A
Innovation in Chemical Engineering	59A
Lip Gloss Manufacturing	59A
Volcano Contest ★	**59A**
Materials Science Circus	71
What makes a material recyclable?	71
How Aluminum Products Are Made	Basement
FIRST FLOOR	
Chemical & Materials Engineering Program Information	1st Floor
Fun with Fluids	1st Floor
Rain Cloud in a Jar	Lobby (150F)
SECOND FLOOR	
Biomechanics of Whole Body	253
Biomedical Engineering Society	253
Biomedical Optics Lab	253
Cardiac Rhythm Lab	253
Keeping Tabs on Cells in the Body	253
Neural Systems Lab	253
Society For Biomaterials - Bone Activity	253
After the Storm	255
Hemp	255
Lignin as a 3-D Printing Feedstock for Sustainability	255
RC Pulling Tractors	255
Stream Restoration	255
UAS and Remote Sensing in Agriculture	255
Popcorn!	257
Balloons! Balloons!	257
Biosystems Engineering Information	257
How is Cotton Candy Made?	257
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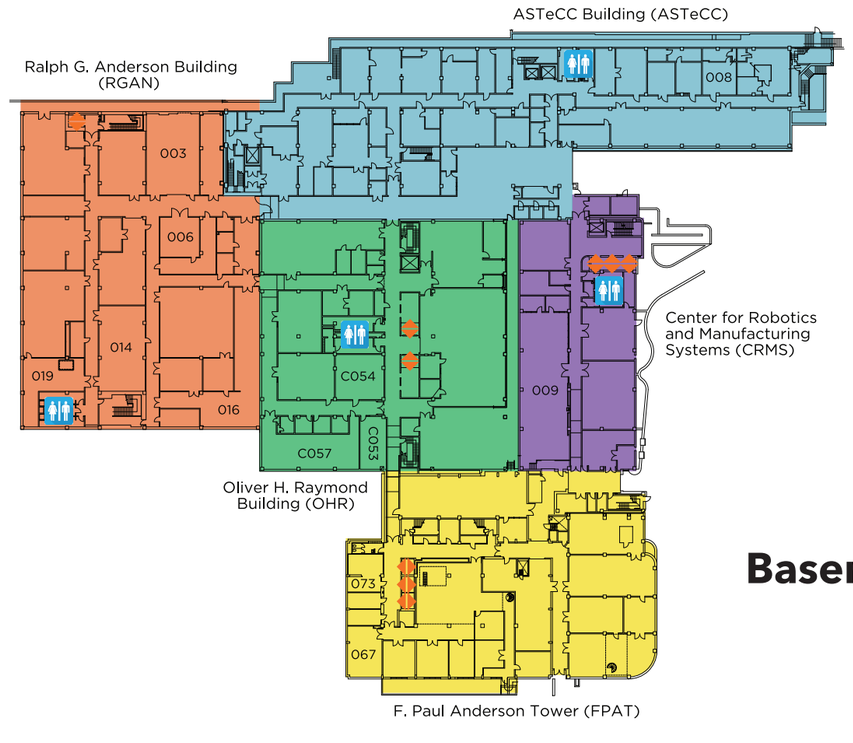
Advanced Hand Eye Coordination Challenge - High School Focused	263
Engineering Origami with a Tessellated Twist	263
Pipe Cleaner Structures	263
Rainbow Liquid Densities	263
THIRD FLOOR	
Bucket Tower Challenge	Lobby
Toyota Learning Center	Tutoring Area
Fun with Dash and Dot	351
FOURTH FLOOR	
ECE Senior Design Projects	453F
Learn About Electrical and Computer Engineering	453
Intelligent Kinova Gen3 Collaborative Robotic Arm	455
Robot Maze	462
Snap Circuits	473
FIFTH FLOOR	
ECE Maker Space	551
A quantum computer?	581
Cameras as computers	581
Launch Objects Through the Air with Electricity	591
SIXTH FLOOR	
Electromagnetics	682
NASA Robot	659

Advanced Science & Technology Commercialization Center (ASTeCC)

Exhibit	Room
BASEMENT	
3D Doodling in STEM	Basement
Center for Applied Energy Research	Basement
Newton's Attic	Basement
Outreach Ambassadors	Basement
Photo Booth - What Type of Engineer will you be?	Basement
Ready for the races!	Basement
Rotating Room of Wonder [Vomit Vortex]	Basement
We're Building a Better Tomorrow	Basement
Writing with Robots	Basement
SECOND FLOOR	
Everything is Science	2nd Floor
NCWIT Aspirations in Computing and AspireIT	2nd Floor
THIRD FLOOR	
Nanoscale 3D printing	361, 365, 369

FPAT CRMS OHR ASTeCC RGAN

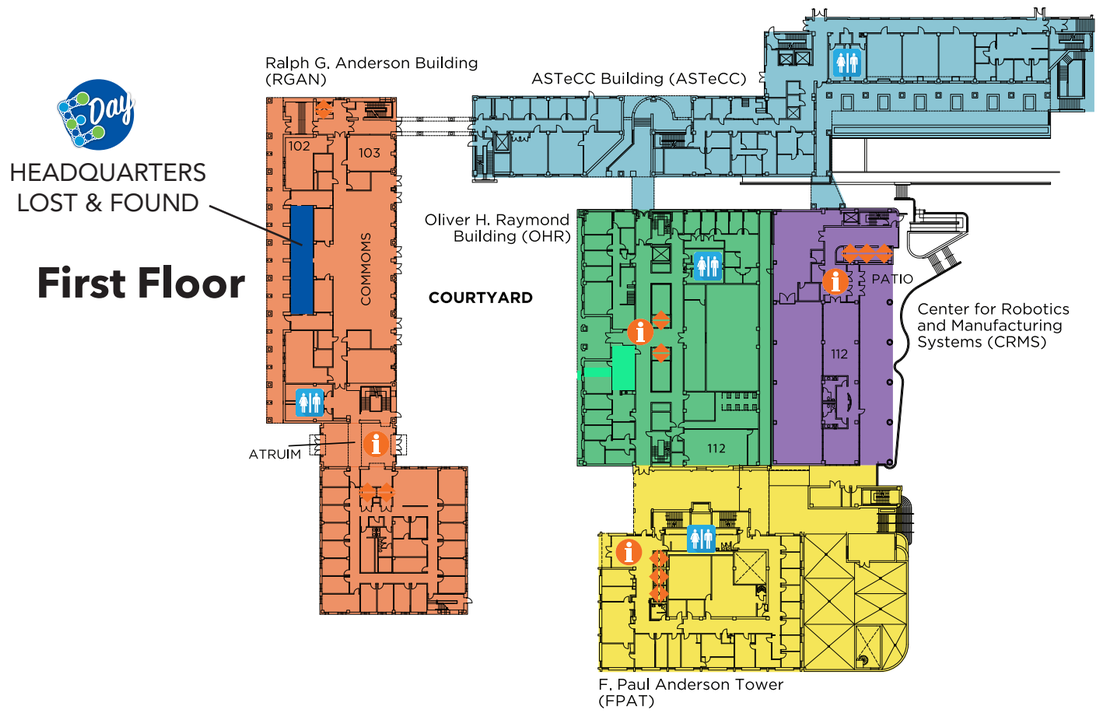
★ Contests!



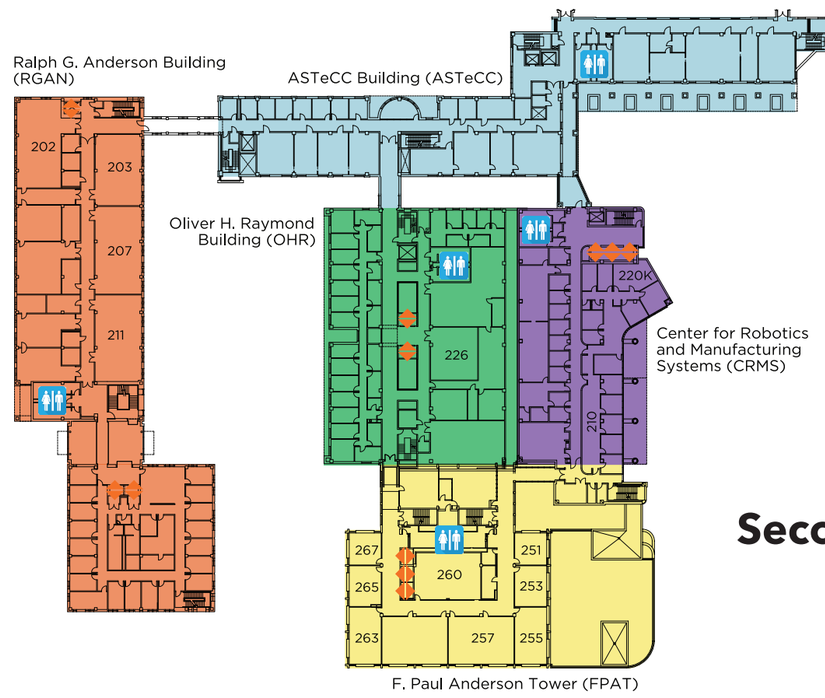
Restrooms

Elevators

Basement



First Floor



Second Floor

Day