

Welcome to the 3rd Annual Cedar Rapids STEM Festival!



4PM-8PM

1st Floor Exhibitors

Registration table will be at the first floor 4th Ave entrance. *Register on one of the iPads to be entered into a drawing for an Alliant sponsored KICK Camp Scholarship.*

Robotics: From Junior FLL to the University of Iowa Robotics Club and the Cyclone Space Mining Robot!

Belin-Blank Center, University of Iowa The Belin-Blank Center will be providing information on our student programs and services as well as a few small activities for students to enjoy. Stop by and see us!

Cedar Rapids Smile Center Have you ever wondered what x-rays revealed about your teeth?

CRCSD ProStart Program Cedar Rapids Community Schools ProStart Program What do science and math have to do with food preparation? Watch as the ProStart students from the Cedar Rapids Community Schools put math and science in to action while making an elegant dessert, one component of their competition meal.

Iowa Public Television Come visit IPTV to learn more about educational opportunities.

National Center for Science Education Join us for activities for early childhood and elementary ages!

Science Fun Come learn how to make fun toys on your own and have unlimited fun with some easy science projects: paper flying helicopter, pencil game, toy car and others.

Science Fun for Young Learn about experiments you can do at home which may include compass, levers, and hand pumps.

St. Ambrose University Visit the St. Ambrose tables to learn more about STEM.

The Iowa Children's Museum Our mission is to inspire every child to imagine, create, discover, and explore through the Power of Play!

U of I Science Education Center Have an opportunity for Science fun!

Bettendorf Community Schools Our students have been working on two project based units throughout the school year. We worked with our city council on ways to improve our city park (Environmental Issues) and we learned about renewable forms of energy while creating windmills and wind turbines.

Kirkwood Community College KICK camps re exciting and educational summer camps for youth ages 9-15. KICK camps are designed around career exploration, and provide fun, hands-on activities that promise to develop and build key skills for future success. No matter what career field you want to explore, KICK camps are sure to be an unforgettable adventure full of inspiring accomplishments and new friends!

UofI College of Engineering The wind can blow your hat off, rustle the leaves, & even power your computers. For thousands of years, people have used windmills to pump water. This activity will examine wind turbines & how they are used to make electricity.

Uof I Biology "Hawkeyes at the Microscope" Traveling Exhibit Model Organisms: Powerful Tools to Study Biology

Workplace Learning Connections Learn more about career exploration opportunities for high school students.

METRO Made From chocolate bars to weather balloons, see first-hand the authentic learning taking place.

Imagination Iowa Stop by the computers in the Teen Union for a chance to code & learn more about Imagination Iowa!

Iowa Tech Chicks Check out Spheros (programmable robotic balls) and create paper circuits with the Iowa Tech Chicks, a community organization that educates and connects women and girls interested in technology.

National Advanced Driving Simulator "Our mission is to improve driving safety for everyone by researching the connection between humans and motor vehicles."

Tech Petting Zoo Check out new gadgets and other technology available at the library!

2nd Floor Exhibitors

**Barrington Irving
Whipple Auditorium
5:00 PM & 6:00 PM**

Speaker Session/Book Signing of
Touch the Sky:
My Solo Flight Around the World
The generosity of Rockwell Collins provided the opportunity for Barrington Irving to share his experiences & for attendees to receive a copy of his book.

Alliant Energy Become the brightest bulb in the box! Visit the Alliant Energy display to learn which bulb is the brightest and why! Check out our mini power plant complete with thermal imaging camera & find your address on our GIS Mapping software. While you're here create a mini light or sound show by experimenting with our circuits made out of squishy dough!

CR Police Department Learn more about the CR Police Department!

City of Cedar Rapids "The City of Cedar Rapids Traffic Engineering Division keeps the city moving. The Division oversees traffic operations including signal timing & maintenance, roadway pavement markings & signage, pedestrian & cyclist movement, & works to make traffic flow smoothly and efficiently. Traffic Engineering is one arm in the Public Works Department, which supports all infrastructure of our community including roads, bridges,

sewers, storm water, & flood control. Learn more about the technology Traffic Engineering uses to help us get where we need to go every day.”

College for Kids Grant Wood AEA's College for Kids is a summer program offering advanced level academic & fine arts courses in the college setting to eligible talented & gifted students who have completed 6th, 7th or 8th grade. Through the College for Kids experience, students are offered advanced or specialized curricula, & the opportunity to further explore a hobby or a topic of interest not typically available in middle school general education.

Cornell College's Departments of Physics, Engineering, Mathematics, & Computer Science will have several fun exhibits including applications involving magnets & electricity, a gigantic slide rule, large mathematical origami displays & a robot!

CRCSD Home School Assistance Program Can you make a piece of paper jump - without touching it? It's not magic, it's science! Students from the Cedar Rapids Home School Assistance Program will share what they know about static electricity and help you make your very own 'magic' trick.

Girl Scouts Outreach Come have a Mad Scientist experience with us! Interactive snap circuits will allow you to construct the inside of alarms, doorbells, & more.

Indian Creek Nature Center Indian Creek Nature Center invites you to examine nature up-close and observe its amazing beauty and wonder. Learn to use a dissection microscope.

Iowa State University Extension & Outreach The C6 BioFarm developers intend the game to be similar to Farmville in that it engages youth in a gaming environment to learn about the bioeconomy from an agricultural production perspective. Game players will progress through the game with C6, a character designed to get students excited about

learning. Come play C6 BioFarm and learn how to join 4-H as well!

Johnson STEAM See students' work during the first year of "hands on-minds on" learning!

Kaplan University Kaplan University, located in Cedar Rapids, IA, offers certificate & degree programs in Nursing, Health Science, Information Technology, Business/Finance & many more. Stop by Kaplan's booth & speak with admissions to learn more about our programs

Kenwood Elementary Learn more about the Kenwood Leadership Academy Magnet School!

Kirkwood LCRC Learn about the STEM offerings at the Linn County Regional Center!

Linn County Solid Waste Agency "Living "green" is easy once you know how. Recycling is part of it, yes, but so are resource conservation, resource recovery, and making environmentally conscious choices."

Marion-CR Optimists Learn more about a local Optimist group and their service projects

Mount Mercy University Learn about various STEM majors – math, computer science, chemistry, forensic science, & more - at Mount Mercy University.

OPN Architects Enter a timed tangram competition, participate in city building using toothpicks /Dots candy to build over the course of the event, & learn more about OPN.

Rockwell Collins Test your flying skills at the Rockwell Collins Booth! Talk to Rockwell Collins engineers. Try out the Rockwell Collins Heads-up Guidance System Flight iPad app. Experience first-hand some of Rockwell Collins' aviation software on our very own developed app, available for free on the iPad store. High scores could walk away with a prize!

Shive-Hattery is a Cedar Rapids based architectural & engineering

design firm with offices in Iowa, Illinois & Indiana. Stop by to try out the latest in 3D visualization software & create our own candy structure.

State Hygienic Laboratory/ 71st Civil Support Team " As the state's public health and environmental laboratory, the Hygienic Laboratory serves all of Iowa's 99 counties through disease detection, environmental monitoring, and newborn and maternal screening"

Uof I-Iowa Flood Center Join the learning at our tabletop watershed display!

University of Iowa Health Care STEM Education Current UofI Carver College of Medicine students will be on hand to assist kids in "scrubbing up" for surgery & testing their visual-spatial skills on the laparoscopic surgical trainer to see what it is like to perform a minimally invasive surgery! They will also learn about human anatomy by examining real human plastinated specimens.

University of Iowa, Department of Chemistry Join us for hands on fun with chemistry! In our Baggie Science experiment, you will experience a chemical reaction forming gas and changing color, all within your own hands! Our light emission demonstration will use diffraction gratings to reveal the colors of light emitted from different types of light bulbs!

2nd Floor Computer Lab
Linn Mar Robotics An opportunity to develop experience with CAD/Drafting.

2nd Floor Conference Room
Coe College Chemistry Club Coe College Chemistry, Biology & Physics Clubs will provide fun, hands-on science activities for all ages to teach concepts about the world around them.

2nd Floor Unconference Room
Moss Enterprises Learn and experience 3D printing and 3D virtual reality for the classroom.