STEM
SCIENCE • TECHNOLOGY • ENGINEERING • MATHEMATICS
DuPage Regional Office of Education
Education, Exploration, & Innovation for Today and Tomorrow

News You Can Use. . .

VISIT THE DUPAGE ROE STEM WEBSITE http://www.stemdupage.com.

Curious About How Science Education Will Change with the NGSS?
Check out this chart from the National Research Council's free downloadable report.

NEXT GENERATION
SCIENCE
STANDARDS
For States, By States

STEM Women Stories: Aspire and Inspire
The push to attract women to STEM education and careers is gaining steam, but the impact is questionable. Efforts span the country, including Tennessee where the Women Ground Breakers recently held their annual Chattanooga GroundBreaking Storytelling featuring women in STEM. **http://www.huffingtonpost.com/deborah-j-levine/stem-women-stories-aspire-and-inspire_b_7041686.html**

Construction students apply practical skills
Students from the Kankakee Career Center apply math, electrical, construction and other skills in building a three-bedroom, one-story home. Students work on site, installing drywall, insulation, concrete, tile, and electrical work while supervised by construction instructors. **Daily Journal (Kankakee, Ill.)**

N.J. School Adjusts Science Courses to Align with Math Classes
A New Jersey school has seen an increase in Advanced Placement course participation since adopting the Progressive Science Initiative, an online guided curriculum that starts with physics (previously an elective) and aligns science courses with math classes. **The Star-Ledger (Newark, N.J.)/Times of Trenton**

Kid Invents Cool No-Spill Cup
You don't have to be an engineer to think like one and design things to help people. Ask Lily Born, who at age 9, invented a no-spill cup for her grandfather whose hands trembled from Parkinson's disease. Two years later, her Kangaroo Cup is in production and Lily was honored at the 2015 White House Science Fair. **Learn More**

Budding Scientist-Entrepreneur Puts the Girls-In-STEM Problem in New Perspective
There's no doubt that women tend to steer clear of careers in science and technology. Nor is there any doubt that the persistent gender disparity in STEM fields represents a big problem for our competitiveness as a nation as well as for individual women. **Read more here**.

Key to Engaging Girls in Science? Teachers
Early exposure to science teachers who are inspiring role models can play an important role in getting more girls interested in the sciences, says Carol Robinson, the first female professor of chemistry at Oxford and Cambridge universities. She shares her own experience with an inspiring teacher and offers some steps schools can take to engage more girls in the sciences. **Forbes**

Upcoming Events and Opportunities

Verizon Innovative App Challenge
The **Verizon Innovative App Challenge** is an exciting, creative and collaborative competition that offers grants for winning middle and high schools and Galaxy Tabs for students on the winning teams. Ignite student interest in STEM. Bartlett High School had a winning team in the 2014 challenge. Registration opens August 4, 2015.

IIT Offers High School Next Gen Tech Camps
NxtGen courses offer a glimpse of the future of the internet, computing, programming, networking, and the next wave of emerging technologies. Courses are hands-on and involve interactive projects with support from IIT faculty, staff and select students. Open to sophomores, juniors and seniors. **http://appliedtech.iit.edu/nxtgen**

Ready for a Change of Pace? Take a Teacher Class at Brookfield Zoo!
Our expert educators will inform, entertain, and engage you as you explore a wide range of topics and carry ISBE credit (PDCHs) at no additional charge. Many provide optional graduate credit for an additional fee. **http://www.czs.org/teacher-classes**

U of I Extension
New and exciting opportunities for teachers and students are scheduled for the weeks of June 15 and 22 and July 20 and 27. Learn more: **http://web.extension.illinois.edu/cook/summerenrichment**

TEAACH (Teachers and Engineers for Academic Achievement)
Northrop Grumman engages teachers in unique experiences to help teachers integrate all STEM areas. Applicants must be US citizens and middle school guidance counselors or science, technology, engineering, or math teachers. **http://www.northropgrumman.com/CorporateResponsibility/Community/Pages/Teaach.aspx**

The CryptoClub Project
U of I Chicago is offering a 3-day summer workshop for middle school teachers and afterschool leaders on June 25-27, 2015. For more information: **http://www.math.uic.edu/CryptoClubProject/workshops.html**

Fresh Water Ecosystems Class – Brookfield Zoo, August 9-13 from 8:30 a.m. to 4:30 p.m.
Investigate NE Illinois fresh water ecosystems. Design a student project to experiment, analyze data, and report results. All Grades, 45 CPDUs, 3 optional graduate credits (Aurora University). Involves off-site water quality investigations and local area travel. Cost: $50, refunded after successful completion. Receive a $100 stipend, books and materials. Mail $50 check (payable to **Brookfield Zoo**, with your name, address, phone, e-mail, and grade or subject taught to: Teacher Workshops, Attention Julie Wozniak, Brookfield Zoo 3300 Golf Road, Brookfield, IL 60513. **Not available on the website**. **For information: Lanis Petrik Lanis.petrik@czs.org or 708-688-8372.**

Resources

Egg Science
If you think a hard-boiled egg has to be ovoid in shape, think again! With a bit of kitchen chemistry, you can **turn ordinary hard-boiled eggs into fun shapes!** The trick to the transformation is understanding the science behind the process of hard-boiling.

Science Buddies Wants to Know Your Science, Technology, Engineering, and Math Stories
Let Science Buddies know how your students' projects went by emailing photos to **blog@sciencebuddies.org.com. (Be sure to obtain media releases first!)** Your students might end up featured in a success story on the Science Buddies Blog, in the spotlight at Facebook, Twitter, Google+, or in the newsletter.

Digital Compass: A Free Gaming Platform
Common Sense Education has released **Digital Compass**, a free, interactive gaming platform created to help sixth- through ninth-graders learn digital literacy and citizenship skills.

Want to Teach Code? Not Sure Where to Start?
Start with a one-hour introduction to demystify computer science. While students worldwide join together to learn an Hour of Code during the international campaign each December, you can bring it to your students any time. **http://code.org/**. Or, explore guides, activities, videos, and more to help you with your Hour of Code campaign, from December 8-14, 2015. **http://hourofcode.com/us/resources**