

South Central STEM Hub Newsletter

STEM Happens



High school sophomores get hands-on engineering experience during winter break.

'Winterim' experience connects high school students with Iowa engineers

High school students spent their winter break connecting with professionals in STEM careers during the PEERS "winterim" experience. In the Exploring Engineering course, sophomores met with engineers from Cargill, Vermeer, Pella, UNI, the Army Corps of Engineers,

and Central College. One student said "I had no idea there were that many types of engineering...I have a better focus for what I am interested in." A Cargill Engineer responded "We can really see these students as great thinkers; we met a couple that we really want to mentor and come work for us".

Governor's STEM Initiative draws crowds at First Tech Challenge competitions



When South Central STEM Hub Manager, Dr. Kris Kilibarda, gave a welcoming address at the First Tech Challenge competition in Ankeny, she asked "How many teams are here because of support from the Iowa Governor's STEM initiative?" Every single person in the room stood up!

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Winterset Elementary 2nd-grader "scales-up" with Engineering is Elementary

[Proposals to](#)

Events

STEM Seminar for Educators

Wednesday, February 27, 2013

11:30 a.m. to 1:00 p.m.

DMACC Ankeny Campus, Building #7, Oak and Maple Rooms

This exciting seminar will feature what is actually happening in the classrooms of the Adel-DeSoto-Minburn (ADM) School District in regard to STEM. The middle school has implemented the Project Lead the Way Gateway to Technology (GTT) program. GTT is designed to provide middle school students with the knowledge and skills to create a strong foundation for further STEM learning with units on Design and Modeling and Automation and Robotics. The middle school has also implemented First Lego League.

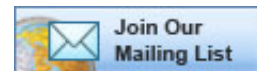
In 2011-2012, the first course in the Project Lead the Way curriculum was offered at the ADM High School. Over 60 students took the Introduction to Engineering Design Course. This year, they added a Principles of Engineering course. The district has partnered with the Dallas County Hospital in Adel to implement a new Biomedical course for the 2013-2014 school year.

Presenters at this seminar will include administrators, teachers, and students from the Adel-DeSoto-Minburn School District. Pizza and pop will be served.

Please email David Boelman dwboelman@dmacc.edu by Wednesday, February 20th if you plan to attend.

become a 2013-2014 Scale-Up program are due Feb. 10th

This year, applicants must include a plan for cost-sharing, in addition to other improvements. Follow the link below for [proposal submission materials](#) and more information.



Tau Beta Pi Spring Roller Coaster and Catapult Competitions

Roller Coaster Competition: Thursday, April 11

9:00 a.m. to 3:00 p.m.

ISU Ames Campus, Howe Hall Atrium

Catapult Competition: Saturday April 22

During VEISHEA

ISU Ames Campus, Central Campus

Click to register or learn more about the [Roller Coaster](#) or [Catapult](#) Competitions. Questions? Contact Kate Brown, President, Tau Beta Pi, Iowa Alpha Chapter, kmsbrown@iastate.edu




Roller Coaster Competition
Create a roller coaster for a ball bearing that incorporates tricks and a Rube-Goldberg challenge. Visit ISU to compete.
Middle School/High School

Catapult Competition
Form a team to build a trebuchet to throw eggs 120 ft. Bring your device to ISU for VEISHEA to compete.
High School

Don't miss these upcoming STEM events!

Feb 6 [STEM @ the Capitol](#), Des Moines

Feb 23 [First Tech Challenge - Iowa Championship](#), Iowa City

Feb 27 **STEM Seminar for Educators**, Ankeny

March 5 [Governor's STEM Advisory Council Summit](#), Newton

April 11 [Tau Beta Pi Roller Coaster Competition](#), Ames

April 22 [Tau Beta Pi Catapult Competition](#), Ames

June [Bioethics and Biotech Summer Workshops](#), Ames

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