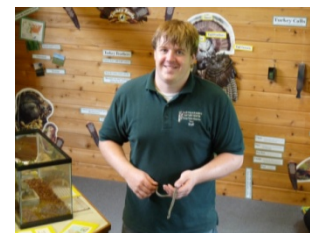


a collaboration of the University of Northern Iowa, Iowa State University and the University of Iowa

## I-Teach Math & Science Keeps Going in Summer

I-Teach recruit Kyle Bauch, science teacher-to-be, is spending his summer planning nature hikes, talking about snakes and leading canoe trips down the Iowa river, supported by an I-Teach Internship, part of the comprehensive recruitment program led by the Iowa Mathematics and Science Education Partnership (IMSEP) to draw talented mathematics and science majors into teaching. Launched as a pilot at UNI last fall in partnership with North Iowa Area Community College, I-Teach expanded to Iowa State University in the spring and to Hawkeye Community College this coming fall. Thus far, 77 mathematics and science teaching majors have participated in the program, eclipsing the annual production of high school mathematics and science teaching graduates from our three universities by about a dozen.



I-Teach intern Kyle Bauch at Black Hawk County's Hartman Nature Preserve.

## Real World Welcomes Teachers

Science and mathematics teachers across Iowa, along with several intrepid businesses, pioneered the IMSEP core program *Real World Externships for Math & Science Teachers* this summer. Externships are designed to provide teachers with modern applications of their discipline for enhancing classroom instruction, while at the same time increasing their students' awareness of STEM careers in Iowa. And, private sector partners benefit from high quality temporary help. Jason Dayton, a science teacher at Dowling High School in West Des Moines, is externing at Kemin Industries. "This is the first time we've had a teacher extern here," said associate scientist Tatania Emmick, who is working with Jason. To help Kemin with an objective of finding more economical sources for their nutraceuticals, Jason will spend the summer looking for novel compounds in various fruit and vegetable peel extracts that may eventually be used in one of the company's dietary supplements. "I think we should teach kids skills they can use in a work



Extern Jason Taylor and Kemin Scientist Tatania Emmick

environment and increase their employability," said Jason when asked what he hoped to take out of his time at Kemin. "This further solidifies the Iowa Core Curriculum to me and my students – by modeling a real world work environment, students will see that not only can they do science as a job, there are other opportunities – media studies, accounting, patent law and marketing – they can go into that are all connected to science." Other businesses and organizations partnering with IMSEP for this inaugural program are Allen Hospital, Clipper Windpower, Blackhawk County Conservation, Hagie Manufacturing, Iowa Department of Natural Resources (DNR), Pella Corporation, Polk County Conservation and Struxture Architects. For more information about the program, including the blogs of some participants, go to <http://www.iowamathscience.org/externships/>.

## Summer of Stars: IMSEP Partners with Science Center of Iowa

Goody edible landfills, solar boats, the magic of science, and farming fun are just a few of the educational programs sponsored by IMSEP at the Science Center of Iowa (SCI) this summer; just one of several museums and nature centers collaborating with IMSEP to educate citizens young and old about the wonders of science and mathematics. Faculty and students from each of Iowa's public universities will take a turn during SCI's *Summer of Stars* to bring the excitement of STEM to audiences.

- **Saturday, June 20 - IMSEP Day at SCI** featured Rebecca Whitaker, University of Iowa - College of Engineering, educational, edible landfill demonstration
- **Thursday, June 25** – featured Dr. Recayi Pecem's UNI Panther Solar eBoat, a third place winner at the International Solar Splash Competition.
- **Saturday, July 11 - Science of Magic** - University of Iowa's physics rock stars Dr. Dale Stille and Dr. Vincent Rodgers demonstrate how science can sometimes seem magical.
- **Saturday, August 8 - Farming Fun** - Dr. David G. Acker, Associate Dean for Academic and Global Programs, College of Agriculture and Life Sciences, Iowa State University oversees a mini-Iowa State Fair.



Edible landfills were a hit at SCI's IMSEP Day.

For more information about these and other information about the Science Center of Iowa, go to [www.sciowa.org](http://www.sciowa.org).

## News and Updates

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### STEM Education Organization Leaders Convene

Striving for a comprehensive science, technology, education and mathematics (STEM) education strategy for the entire State of Iowa, leaders of public and private organizations targeting STEM education convened in Des Moines on June 22 to discuss progress and priorities. *Focus and coordination* of the many stellar local efforts across Iowa was a consensus call. Represented at the table were the Iowa Department of Education, the Governor's Office, the Iowa Academy of Science, the Iowa Department of Economic Development, the Iowa Business Council, the Iowa Commission on the Status of Women, the Iowa Biotech Association, the Technology Association of Iowa, Kemin Industries, Pioneer, Rockwell Collins, Project Lead The Way, the Community College STEM Instructor Preparation Project, Kirkwood Community College, the Quad City Engineering and Science Council, and the Iowa Mathematics & Science Education Partnership. A searchable inventory of many Iowa STEM education activities can be found at <http://www.iowamathscience.org/inventory.shtml>.

### Robert Noyce Teacher Scholarship Rollout



Complimenting the entry-level recruitment initiative *I-Teach Math & Science*, the new IMSEP Robert Noyce Scholar Program, funded by a grant to IMSEP from the National Science Foundation, enables Iowa's public universities to recruit upper level and graduate STEM majors into teaching with \$10,000 annual scholarships. Plans are currently underway to provide each university with five to six scholarships each year through which talented students approaching graduation (or returning post-graduation) in the mathematical or scientific fields can work toward teaching certification. Graduates will then go on to teach in a high need school district. Additional information about the Noyce Scholars program can be found at <http://www.iowamathscience.org/noyce/>.

### Iowa Science and Mathematics Teacher Educators Summit

Partnering with Grand View University, IMSEP has nearly finalized plans for an unprecedented gathering of faculty members from all of Iowa's mathematics/science teacher education colleges and universities for a conference on August 14. Intended to seek a common vision or standard of excellence for graduating teachers of mathematics and science across Iowa institutions of higher learning through communication and resource sharing, this is a summit not to be missed. Details about the Iowa Science and Mathematics Teacher Educators Summit and networking reception are available at <http://www.iowamathscience.org/summit/>.

### IMSEP Director Blogs on Iowa STEM Education

The condition of STEM education in Iowa and what we are doing about it was the theme of IMSEP Director Jeff Weld's guest blog at the *Des Moines Register* online for the week of June 8 to 13. *Views expressed are those of Jeff, not of IMSEP as a whole.* <http://www.desmoinesregister.com/apps/pbcs.dll/section?category=PluckPersona&U=79035683476344f997099a90af1a72d7>

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