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Elements

March 2016

[Ames Laboratory now home to CaloriCool™ Research Consortium](#)



Vitalij Pecharsky, Ames Laboratory scientist (left) and Duane Johnson, Chief Research Officer for Ames Laboratory, celebrate CaloriCool™ with fellow ISU and Ames Lab associates during a recent faculty meeting

Story originally published by [The Ames Laboratory](#)

The U.S. Department of Energy's Ames Laboratory will be the home of a new research consortium for the discovery and development of more environmentally friendly and energy-efficient refrigeration technologies, sponsored by DOE's Office of Energy Efficiency and Renewable Energy (EERE).

The consortium, named CaloriCool™, will pursue the development of alternative forms of refrigeration technologies, called caloric cooling, in partnership with the private sector and universities. CaloriCool™ is one of four consortia that make up the DOE's Energy Materials Network (EMN). The EMN will facilitate industry access to the unique scientific and technical resources available at the national laboratories, enabling manufacturers to bring advanced materials to the market more quickly.

[Click here](#) for more information about this story.

- Iowa State had [two teams participate](#) in the SpaceX Hyperloop Design Weekend, held Jan. 29 and 30, 2016 at Texas A&M University in College Station, TX. While neither team was selected to advance to this summer's competition weekend, the students came away with new collaborations and ideas. One team, led by materials engineering senior Andrew Kitahara, came back to Ames with [a new name and a new focus](#). Called IMPACT (Innovators Making Positive Advances in Creative Technologies), the group hopes to find creative avenues to utilize what is learned in the classroom and apply it to real-world challenges, such as developing smart cities.



- Research by MSE Assistant Professor [Martin Thuo](#) and his team was published in [Scientific Reports](#), a journal from the publishers of *Nature*. The paper focused on the heat-free soldering, or molding, of metal structures.

- The College of Engineering remained consistent in *U.S. News and World Report's* 2017 [Best Graduate School rankings](#). The College tied for 48th overall and tied for 26th among public universities. In these latest rankings, MSE was tied for 33rd overall and tied for 21st among public schools.

- Associate Professor Jun Cui was recently profiled in a [feature story](#) by the College of Engineering. Cui discussed how he has immersed himself in research at Iowa State University and at the Ames Laboratory. Dr. Cui's work focuses on a variety of magnetic materials.



- MSE alum Emma White (Ph.D., '14) was featured in a profile by [Ames Laboratory](#). Emma, twin sister Molly, and their friends and fellow twins Ru-Shyan and Ru-Huey Yen met in high school and now all four are working in science-based careers. Emma currently works as a post-doctoral researcher at the Ames Laboratory's Division of Materials Science and Engineering, specializing in high-pressure gas atomization of metals.



- Kristen Constant, Morrill Professor and Chair of the Materials Science and Engineering Department, was recognized by the Program for Women in Science and Engineering (WiSE) as a WiSE Champion. In honor of WiSE's 30th Anniversary, the program is recognizing 30 ISU faculty and staff whose service has enhanced their ability to serve K-12 students and undergraduate women at ISU. Constant (*right*) is pictured here with fellow WiSE Champions Dr. Susan Rhoades and Anthony Hamilton.

- Anja Mudring was elected to serve as the ACS Ames Local Section Chair-Elect for 2016 and the 2017 Chair of the organization. Mudring is the Glenn Murphy Professor of Science and Engineering with the MSE department.

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