SOLAR SPLASH: UNI hosts international solar boat competition

plus:
Getting to the Root of the Matter

Southern Italy Becomes UNI Classroom
I write to you for the first time as Dean of the newly formed College of Humanities, Arts and Sciences, the result of the merger of the College of Humanities and Fine Arts and the College of Natural Sciences on July 1, 2011. While some issues of the merger still need to be resolved, we are excited about the new relationships resulting from the process. We are also benefiting from fiscal economies of scale. The education of our students, the creative and scholarly activities of our faculty and the outreach to the state of Iowa and beyond remain our focus.

Enrollment at UNI this fall was 13,168, down 33 students from the year before. The number of students studying in CHAS has remained strong, however, with 4,560 majors. (The timing and method of counting majors has changed this year, making comparisons between the two years problematic.) Thus, over one third of the students at UNI major in a program in our college.

We believe firmly in the value of communication with our alumni and friends, and we'd like to do this as sustainably as possible. This first issue of the Communiqué for CHAS actually has two editions, one focusing on the arts and humanities and one on the sciences. The edition you receive depends on which of the former colleges, CHFA or CNS, was yours. But we invite you to read the edition for the other half of our college online at www.uni.edu/chas/communique. We are also exploring ways to deliver Communiqué to you online next year. At present, we expect to send you a postcard to let you know when it is available. (You will still have the option of receiving a hard copy if you prefer.)

Likewise, you are invited to visit the CHAS homepage www.uni.edu/chas and our calendar of events at www.uni.edu/chas/events to keep abreast of our activities. If you are a Facebook user, I invite you to like our College page at www.facebook.com/unichas.

Faculty and students continue to work together to benefit students’ learning and the cultural, social and economic development of the state, as is demonstrated throughout this issue of Communiqué. CHAS disciplines are the heart of the liberal arts core; educating our students for their future in the context of a strong liberal arts education is a point of pride among our faculty.

The University of Northern Iowa has always sought to teach, nourish and foster the growth of its students. As part of this evolving and ongoing effort, we have embarked on a new beginning, one that focuses our strengths and sharpens our goals. We are excited about the opportunities that this merger has created for our students and staff and we look forward to a vibrant future.

Joel K. Haack

Dean of the College of Humanities, Arts and Sciences
“Solar Splash officials, as well as other teams, were extremely satisfied with the facilities and with UNI’s planning and organization of the event,” said Reg Pecen, professor of industrial technology and adviser to the Solar Panthers. UNI, which has participated in Solar Splash since 2000, will also host the event in 2012 and ’13.

During the event, Solar Splash teams earn points in seven categories, including technical inspections and reports, engineering design, visual displays, workmanship and on-the-water sprint, endurance and slalom competitions.

Beginning in August, individual solar boat teams focus on design objectives and improvements as they prepare the boat’s hull, solar-electric power system, mechanical or electronics controls, power storage and wireless/wired telemetry system for optimum data acquisition and telecommunications. Students must also prepare professionally written technical reports and technical display materials.

The Solar Panthers’ boat, named Hannah after their team leader Hannah Loan, is a foam and fiberglass craft outfitted with six large solar panels strapped to the exterior, which produce 480 watts of energy. The boat was built four years ago by earlier team members and has been modified each year since then.

Loan, an electrical engineering technology major who graduated in May 2011, was a member of the UNI solar boat team for three years and was the team leader for two years in a row. “Being involved in the solar boat team opened up so many opportunities for me—from networking and meeting people to experience with hands-on applications to finding out what I’m most interested in.” Loan now works at Rockwell Collins, Inc., in Cedar Rapids, as does Damon Knowling, another solar boat team member, who was hired for an engineering technology position.

This year’s Solar Splash was sponsored by the Institute of Electrical and Electronics Engineers’ Power Electronics Society (IEEE-PELS) with assistance from the Iowa Mathematics and Science Education Partnership, Waterloo Tent, Cedar Falls Utilities, Cedar Falls Tourism and Visitors Bureau, Cedar Valley Sports Commission, the Iowa Department of Natural Resources, Solar Creations by Waterloo, Rockwell Collins, Inc., and the Greater Cedar Valley Alliance and Chamber. The UNI solar electric boat project was sponsored by the Iowa Energy Center, with additional support provided by the UNI Office of the Executive Vice President and Provost and the College of Humanities, Arts and Sciences.

What is Solar Splash

Begun in Milwaukee in 1994, Solar Splash promotes clean, zero-emission transportation technologies in U.S. waters and encourages interest on the part of young people in STEM [science, technology, engineering, mathematics]-related careers, according to Reg Pecen, UNI solar boat adviser. “Designing, building, testing and troubleshooting solar-powered boats have been excellent ways to involve students in these areas,” he said. “This competition allows undergraduates to be involved in applied engineering and technology research and to develop confidence in their abilities.”
Sometimes to gain an understanding of the big picture, it helps to place yourself in a totally different environment, one that makes it impossible not to take a fresh look at a question. That’s what students in Chad Heinzel’s Capstone course (Environment, Society and Technology) in southern Italy did last summer. The two-credit Capstone course is the culminating requirement of the Liberal Arts Core at UNI. During the two-week-plus trips, students (18 in the first session and 16 in the second) investigated the environmental and sociopolitical implications of climate change on Mediterranean cultures. “Students often have a superficial view of the environment,” said Heinzel. “They may think of the environment in terms of recycling and being green rather than in terms of larger issues, such as how the presence or lack of natural resources can impact a society, or the devastating effects of natural hazards such as earthquakes or volcanoes.”

The cultural center of the course is the Mediterranean—the Greeks, Phoenicians and Romans. Sicily and southern Italy are at the crossroads of the beginning of Western civilization, according to Heinzel, a stopping point on the route to Asia, Africa and Western Europe. This was the major reason, as well as Heinzel’s familiarity with Sicily, for selecting the area as the site of the course. [Some capstone courses are offered on the UNI campus; others at different overseas locations.] Heinzel taught two sections of the course last summer and hopes to teach it again in summer 2012.

During their stay in southern Italy, students visit archaeological sites, geologic outcrops, beaches, museums and more, while experiencing contemporary Mediterranean culture, from the landscapes of rural Sicily to the modern metropolis of Rome. Heinzel frames stops at different points of interest with what he calls scavenger hunts. For example, at Monte Polizzo, students are asked to find, document and return pieces of archaeological material; to determine and discuss the advantages and disadvantages of living in Monte Polizzo in 550 B.C.; and to write an essay entitled “Time” that addresses their own view of time.

“These exercises help students become aware of big questions, such as the role of the environment in the quality of life, how environments change through time, sometimes quickly and sometimes over millions of years,” said Heinzel. “The students’ active experiences help them internalize their understanding of these larger issues.”

Students prepare for the trip by meeting approximately eight times during the spring semester for discussions of material they have read on Mediterranean archaeology, the land ethic, the relationship of environment, technology and society, as well as the fragility and evolution of humanity. During their stay in southern Italy, they document their experiences in a journal, including answers to questions, summaries from class discussions, thoughts about the course readings and summaries of what they have seen and done.

“In the end, this course is not about what I think,” said Heinzel. “It’s about giving students an opportunity to examine what they have learned and develop their own human/environmental philosophy.”

Background: Students visit a volcano on Vulcano Island, one of the seven Aeolian Islands off the coast of Sicily.

Inset left: Capstone student Melinda Blakeman studies the tomb of St. Helen, the mother of Constantine I, in the Vatican Museum.

Inset right: Students hiking up the summit of Stromboli, a volcano that erupts about every 20 minutes.
He was also appointed chair of the Nielsen Professional Service Award. He received the 2010 Lifetime Achievement in Environmental Education Award from the Iowa Association of Naturalists and the Iowa Conservation Education Coalition.

Karen Breitbach (Physics/Science Education; Lab School) was elected to the executive board of the Iowa Academy of Science.

John Bumpus (Chemistry and Biochemistry) served on the National Science Foundation Graduate Research Fellowship Panel in February 2011.

Shoshanna Coon (Chemistry and Biochemistry) is the first recipient of the McKone Unique Academic Award, sponsored by Midwest One Bank.

Kavita Dhanwada (Biological, CHAS Associate Dean) was elected to the executive board of the Iowa Academy of Science.

J. Philip East (Computer Science) is a member of the committee to revise NCATE standards for secondary computer science teacher preparation programs and a member of the planning committee for the Computer Science & Information Technology Symposium 2011.

Kamyr Enshayan (CEE) was an invited panelist at a National Academy of Sciences workshop in March 2011 on increasing national resilience to hazards and disasters in Cedar Rapids.

Larry Escalada (Physics/Science Education) received the 2010-11 Ross A. Nielsen Professional Service Award. He was also appointed chair of the Committee on Physics in High Schools (2011-12) of the American Association of Physics Teachers.

Scott Giese (Industrial Technology) was elected to the professor committee and the board of directors of the Foundry Education Foundation.

John Groves (Earth Science) was awarded a $65,000 grant from the American Chemical Society Petroleum Research Fund for his project "Tests for the Possibility of Photysymbiosis in Late Paleozoic Fusuline Foraminifera." He was appointed to a four-year term as a voting member of the International Union of Geological Sciences, Subcommission on Carboniferous Stratigraphy.

Joel Haack (CHAS Dean) was the guest lecturer for the UNI Department of Mathematics’ Hari Shankar Memorial Lecture in March. In "These Are a Few of My Favorite Things," Haack discussed examples of connections between mathematics and the arts and humanities.

Bill Harwood (Chemistry and Biochemistry) served as chair of a review panel for the National Science Foundation DPR-12 proposals to develop research on improving science learning in the K-12 classroom.

Chad Heinzel (Earth Science) was awarded the 2010-11 University Book and Supply Outstanding Teaching Award for CNS nontenured faculty. He was elected regional director of the National Association of Earth Science Teachers.

Patricia Highy (CEE) was selected to serve on the Green Schools Committee Cabinet, which works with the Center for Green Schools team to provide guidance on the direction and development of the Green Schools Committee programs and initiatives.

T.J. Hitchman (Mathematics) was elected chair of the Iowa section of the Mathematical Association of America and was appointed to the MAA’s Iowa NETr steering committee.

Tom Hockey (Earth Science) is the author of How We See the Sky, a general audience book, published by the University of Chicago Press, that takes a cultural and historical approach to astronomy.

Elizabeth Hughes (Mathematics) was elected to the board of directors of the Iowa Association of Mathematics Teacher Educators.

Mohammad Iqbal (Earth Science) was presented the 2010 Dean’s Award for Research. He received the Milestone Award in 2010 for outstanding mentoring of graduate students; the award is given to members of the Graduate Faculty who have served as the major advisor of at least 10 graduate students at UNI.

James Jurgenson (Business) received the 2010 Dean’s Award for Excellence in Teaching Departmental Programs.

Jeff Morgan (Physics) received the 2011 CNS Dean’s Award for Excellence in Teaching in the Liberal Arts Core. He was awarded the 2011-12 University Book and Supply Outstanding Teaching Award for CNS nontenured faculty.

Siobahn Morgan (Earth Science) is a member of a review committee evaluating research proposals for the Hubble Space Telescope.

Jihwa Noh (Mathematics) received a 2011 Veridian Credit Union® Community Engagement Award for her work in building relationships with schools and mathematics teachers in the Cedar Falls and Waterloo school districts.

Stephen O’Kane (Biology) received the 2011 Dean’s Award for Excellence in Research and Beta Beta Beta’s Excellence in Teaching Award.

John Ophus (Biology) received the 2010 CNS Dean’s Award for Excellence in Teaching in the Liberal Arts Core.

Linda Paar (Chemistry and Biochemistry) received the 2011 Regents Staff Excellence Award.

Reg Pecol (Industrial Technology) is a board member for the Iowa Alliance for Wind Innovation and Novel Development. He received the UNI CARE Sustainability Award and the Milestone Award for outstanding mentoring of graduate students at UNI.

Syed Kirmani (Mathematics) gave 20 lectures on quality control at the École Nationale de la Statistique et de l’Analyse de Information (ENSAI) in Brux, France, in November 2010 at ENSAI’s invitation.

Min Hi Lee (Mathematics) was invited, based on his published research results, to deliver a three-hour lecture at a workshop on quasimodular forms, held in June 2010 at Blaise Pascal University in France.

Kirk Manfredi (Chemistry and Biochemistry) was appointed to the awards committee of the American Society of Pharmacognosy.

John McCormick (Computer Science) received the 2011 Dean’s Award for Excellence in Teaching Departmental Programs.

Karen Sabey (Mathematics) was appointed teacher of the Iowa Association of Mathematics Teacher Educators.

Ben Schaefer (Computer Science) was invited to attend the NSF–sponsored Computing Education for the 21st Century in New Orleans in winter 2011.

Aaron Spurr (Earth Science/Science Education; Lab School) was one of four Iowa teachers to receive the Yager Exemplary Science and Mathematics Teaching Award. Yager, who received a B.A. in biology from UNI, is professor emeritus of science education at the University of Iowa, where he taught for 50 years.

Bill Stiglami (CEE) was an invited speaker at the Eric International Seminars on Early Emergency, held in Erice, Sicily, in August 2011. The title of his talk at the session on climate was “The Chemical Time Bomb Concept Revised in the Context of Climate Change and Other Recent Developments.”

Jody Stone (Chemistry and Biochemistry/Science Education; Lab School) received the 2011 state Presidential Award for Excellence in Mathematics and Science Teaching. The awards are the nation’s highest honor for teachers of science and mathematics.

Gerard Thiel (Industrial Technology) received the American Foundry Society Scientific Merit Award at the 2011 Casting Congress in April. The technical paper he wrote on high-temperature properties of chemically bonded sand received the 2011 Howard Taylor Award for research that significantly influences the future of the metal casting industry. Thiel is serving a four-year term as a national director of the Cast Metals Institute.

Brian Townsend (Mathematics) was appointed Affiliate Connections Committee chair of the Association of Mathematics Teacher Educators.

Kurt Pontoash (Biology) is a member of the nutrient technical advisory committee of the Iowa Department of Natural Resources.

Hageswara Rao Posinantisetti (Industrial Technology) is editor of the International Journal of Mechanical Engineering.

Scott Greenhalgh, assistant professor (Ph.D., Utah State University) Antonio Scontrino, assistant professor (Ph.D., University of Palermo, Italy).

Mathematics

Olga Ostapyuk, assistant professor. (Ph.D., Kansas State University)
Karen Sabey, assistant professor (Ed.D., University of Northern Iowa)
Gjof Bjorg Steinthorardottir, assistant professor (Ph.D., University of Wisconsin-Madison)
William Wood, assistant professor (Ph.D., Florida State University)

Physics

Rui He, assistant professor (Ph.D., Columbia University)

Retirements

Fred Behroozi, 13 years as professor in and nine years as head of the Department of Physics

Virginia Berg, 27 years as professor in the Department of Biology

Dorothy Brechelsen, 16 years as instructor in the Department of Biology

Diane Thiessen, 33 years as professor in the Department of Mathematics

Jack Wilkinson, 49 years as professor in the Department of Mathematics and 11 years as director of the UNI DoDEA mathematics project

Position change

Shoshanna Coon, associate professor of chemistry and biochemistry, is assistant dean for graduate academic affairs.
ELEVATE & INSPIRE
the Youds Challenge

Eileen (‘80 Mathematics and Chemistry) and Bob (‘80 Industrial Technology) Youds are issuing a challenge—Elevate and Inspire—to UNI alumni and friends: If you upgrade the gift you made last year to the CHAS Dean’s Fund for Excellence, they will match your upgrade dollar for dollar up to $15,000. The Challenge also applies to first-time donors.

Eileen and Bob believe that their UNI experience helped form the solid base from which they launched successful and fulfilling careers. Eileen is chief operating officer for shared services at Walser Automotive Group in Minneapolis. She has held significant global leadership positions with Honeywell, Kelly Services, Caridian and Pearson. Bob is an engineering manager of design automation with Medtronic in Minneapolis. His career has spanned commercial, industrial and defense industries. Eileen and Bob both serve on the UNI Foundation’s Imagine the Impact national steering committee, and Eileen was a member of the College of Natural Sciences Advisory Board.

“The Dean’s Fund helps students gain professional, social and cultural experiences that are vital for success in the business world, but those are things that can often go unfunded in today’s challenging economic times,” Eileen noted. The Dean’s Fund gives students opportunities for research experience, assists with living expenses when students take unpaid internships and helps fund professional presentations or study abroad.

You can answer the Youds Challenge and elevate your gift by going to www.adv.uni.edu/foundation/pledgeform.aspx. Scroll down the page to the section marked “Dean’s Fund” to make your contribution. •••

A SPECIAL BUDGET message from the Dean

The budget situation for the Regents institutions continues to be challenging, especially for UNI. Because just under half of the UNI budget comes from state appropriations, state budget cuts in the past 10 years have disproportionately impacted UNI, compared with its peer Regents institutions. Recognizing this disparity, the Board of Regents has recommended to the legislature a special appropriation for UNI. If you agree that it is important that this recommendation be funded, I hope that you will let your legislators know. (More detail can be found in President Allen’s budget message at www.uni.edu/president/budget.)

One expected impact of the budget strictures is that we will be forced to close some programs at UNI, not because of any concerns about their quality or because they do not produce well-prepared graduates, but solely because we cannot afford to continue all the programs we have. Of course, we will make sure that the students presently in the programs are accommodated, but I expect that you will hear of significant changes in UNI. It has been difficult for me to come to grips with this—I love the institution we have all created. But I firmly believe that UNI must be reformed to remain strong. My goal will be to make the process as transparent and fair as possible, while ensuring that, in the reallocation, we can strengthen the CHAS programs that remain.

I am very grateful for the financial support from our UNI alumni and friends; you make it possible for us to offer scholarships to students, support their research projects, purchase equipment for their classrooms and provide opportunities for faculty members to remain at the frontiers of their disciplines. In the proceeding column, there is information about a challenge grant from Eileen and Robert Youds. I encourage you to consider multiplying the value of your gift by taking advantage of their generous offer. •••
The CEEE worked with the Iowa Office of Energy Independence to provide energy-related materials and outreach presentations to Iowa K-12 teachers during the 2010-11 school year. Called Fabulous Resources for Energy Education (FREE), the program also offered professional development graduate credit courses to immerse teachers in energy conserva-
tion, efficiency and renewable energy.

Sustainability efforts in the college this year included offering a 3-credit-
hour course on the subject, a public
forum in April during Earth Week, when a
group of freshman Presidential Scholars
described their blueprint for a sustain-
able society in 2050, and the UNI Faculty
Leadership in Sustainability Education program, a year-long effort by a
group of eight organizations, one of
which is UNI’s Office of Sustainability
which works with the Office of Energy Independence to provide energy-related materials and outreach to Iowa teachers.

The LEGO Llamas, a team of seven
Cedar Falls middle school students, sponsored by the College of Natural Sciences and John Deere, Inc., went to the regional qualifier in Cedar Falls of the FIRST LEGO League to the state competition in Ames, where they won first place in programming. Students in
FIRST LEGO League design, build and program robots, apply real-world math
and science concepts, and learn critical-
thinking and team-building skills.

A thousand high school students from the Cedar Valley gathered on the UNI campus in late May for Green: What Does It Mean? Exploring Our Sustainable Community. The all-day event, aimed at providing hands-on learning experiences on environmental literacy that would not otherwise be available, featured rock wall climbing, kayaking, archery and activities related to solar energy, organic farming and water testing. The event was presented by Cedar Valley Sustainability Educators, a group of eight organizations, one of
which is UNI’s Recycling and Reuse Technology Transfer Center.

The Wayne and Jan Anderson
Summer Geology Field Camp Fund
was created by the former head of the
Department of Earth Science and his
wife to award $1,000 stipends to
students to help defray the costs of their
summer camp. A luncheon in their
honor in December 2010, the Andersons
posed with the students who received awards this past summer: seniors
Christina Spielbauer, Kasey Westley and Matt Even.

The RRTC’s Team ReCycle looked at
the recycling practices used at RAGBRAG XXXIX this past summer. The team,
consisting of Jenny Bruss, RRTC
program and community outreach coordinator, and students Katie Art and
Britney Torning, investigated what happens to the large quantities of disposable cups, plates, beverage bottles and other materials that are a
by-product of 20,000 riders crossing the
state and thousands more partici-
pating along the route. The team posted
daily reports of their adventures on the
RRTC’s Facebook page.

For the second summer, the
Department of Computer Science offered
two Google-supported workshops
for middle and high school teachers. One
workshop helped prepare teachers to have their students use graphical program-
making software in their classrooms, and
the other workshop focused on teaching students about various simulation tools.

Several dozen seventh and eighth grad-
ers from area schools participated in the
second annual UNI Energy Olympics
at the CEEE in May. The event included a
solar car race, an art project and a solar
water heater, all powered by sustainable
energy sources. This year, students also
had the option to build a wind turbine.

The Department of Physics hosted the
State Physics Olympics competition in April, at which more than 100 high school
students who qualified in their AEA re-
gional competition tested their skills.

A new chapter focused on climate
changes consequences for Iowa’s flora
and fauna.

The graphic communications major in the Department of Industrial Technology
graphic communications has been
renamed graphic technologies to
reflect broader course offerings and
current trends in the industry.

The CEEE’s Farm to School program
helps six northeast Iowa schools find
locally grown foods. The first part of the
program is getting locally grown food
into the cafeterias so schools serve
freshier, healthier food. The second part is educating students on where the food
comes from. The CEEE helps schools
find local growers through the Northern
Iowa Food and Farm Partnership.

The Physics Department hosted
for the first time the annual meeting
of the Iowa Association of

Physics Teachers in November 2010.

Some 60 Iowa physics teachers from high schools, community colleges, liberal arts colleges and universities, as well as UNI students, attended the meeting, one of the highlights of which
was the 2009 Iowa High School Physics
Teacher Survey, conducted by Jeff
Morgan, assistant professor of physics
and science education. Cliff Chancey,
head of the Department of Physics,
was president of the IAMPT at the
time. In November 2011, the department hosted the Prairie States Regional
meeting of the American Physical
Society, a research conference that
draws graduates and undergraduates.

This fall for the first time the Biology
Department offered an eight-week
orientation session for freshman
biology majors. More than 100 students took the zero-credit course, which
aims to help biology majors feel at
home in the department, meet Biology
faculty and learn about opportunities in the department.

The Department of Physics received a $365,000 grant from the National
Science Foundation to acquire a helium
cryocooler for its existing Physical
Property Measurement System (PPMS).

The cryocooler system captures evapo-
rated helium from the PPMS and reliq-
uiates it. Low-temperature capabilities are mandatory for cutting-edge physics and ma-
terials research. The new system allows UNI to conduct research without costly fillings of liquid helium.

Conrad and Jeanette Baumler
(‘BA 71, MA ‘73, and BA ‘73, respectively) recently created the
Conrad and Jeanette Baumler
Mathematics Education
News in Short continued on page 15.
student recognition

Kris Boss, a senior in industrial technology, was awarded a special scholarship of $2,000 for writing a paper demonstrating his interest in ductile iron from the Foundry Education Foundation at its annual College Industry Conference in Chicago in fall 2010.

Jack Kosmicki, a bioinformatics major in the Department of Computer Science, was awarded a second two-month internship at the prestigious Harvard-MIT Bioinformatics and Integrative Genomics summer institute. The institute offers hands-on research experience in biomedical engineering and medical science to outstanding undergraduate students.

Chelsea Meier, president of the American Chemical Society student affiliate at UNI, was recently awarded a $400 International Year of Chemistry grant from the ACS committee on education for her proposal, “Halloween Haunted House.”

Three earth science students presented the results of their research at the annual meeting of the Geological Society of America in Denver, Colo., in fall 2010: Jake Davidson, Matt Even and Jennifer Speck.

Mathematics education students in a class taught by Jihwa Noh, associate professor of mathematics, started a weekly after-school math club for students at Waterloo’s West High School in fall 2010. The UNI students taught lessons introducing or reviewing specific math concepts and connected the concepts to real-life applications and careers. They also provided homework help and ACT/SAT college entrance exam preparation. Noh received an outreach grant from the Iowa Mathematics and Science Education Partnership.

Corey Eichelberger, an electrical engineering technology major in the Department of Industrial Technology, completed a project in summer 2011 that involved monitoring the quality of the electric circuit when each of three different types of light bulb—LED, compact fluorescent and incandescent—is used. Of the three types of light bulbs, he found that the LED bulb used the least amount of electricity—5 watts—but was comparable to a 100-watt incandescent bulb in terms of light output.

student research/projects

Students Alexandra Popinga [bioinformatics, biology, biochemistry], Hannah Wilson [biology, biochemistry, philosophy], Melani Taylor [biology] and Samantha Cawiezell [biology] participated in the Department of Chemistry and Biochemistry’s exchange program at Ecole Nationale Superieure de Chemie de Rennes (ENSOCR) in Rennes, France, during the summer of 2011. Facilitated by John Burnus, UNI professor of chemistry, the students worked on research projects with ENSCR faculty. At the same time, two ENSCR students, Laura L’lardion and Terry Tomakinian, were involved in research at UNI with chemistry faculty Kirk Manfredi and Jeff Elbert.

Three earth science students presented the results of their research at the annual meeting of the Geological Society of America in Denver, Colo., in fall 2010: Jake Davidson, Matt Even and Jennifer Speck.
The problem isn’t with mathematics, but with the model. If I turned out to be wrong and turned around too soon, I would NEVER get to your destination! But that’s blatantly wrong! Half the time you would NEVER get to your destination! The problem isn’t with mathematics, but with the model. If I turned out to be wrong and turned around too soon, I would NEVER get to my destination, because I hadn’t put a SECOND turn-around point into my model—when do you turn back when you are going the other way? Then I’d need a third, and a fourth, etc.

Undergraduate Whitney Waechter and I worked on the problem this summer. We started by looking at an easier problem—assume that the road ends 10 miles in either direction and that the restaurant has equal probability of being anywhere on the road. Where do you turn around? Simple problem, simple answer. It turns out you go right 10 miles, to the end of the road, then turn around.

We then started playing with distributions that looked like bell curves, only were finite (because the road ends). We found several CEEE programs into one cohesive set of educational services. School administrators and teachers will learn how to make their school a green facility, and they will learn to teach students how to reduce their energy footprints.

The Grainger Foundation of Lake Forest, Ill., donated $5,000 to create the Grainger Graduate Assistantship for the CEEE. The grant will support a UNI graduate student who will coordinate the Iowa Green Schools Initiative, which will enroll several CEEE programs into one cohesive set of educational services. School administrators and teachers will learn how to make their school a green facility, and they will learn to teach students how to reduce their energy footprints.

Students and staff of the Metal Casting Center recently replicated a Picasso sculpture, known simply as “The Picasso,” located in Daley Plaza in Chicago. The replica, donated by the university and the center, was added to a new exhibit at the Waterloo Center for the Arts Phelps Youth Center.

Three DIAS students were selected to present their original work at the National Conference on Undergraduate Research at Weber State University in Ogden, Utah, at the end of March 2012. Kelsey Hampton will present her work on “Intra- and Interspecific Variations of Carapace Shape in Brazilian Fiddler Crabs (genus Uca).” Anne Shepherd’s paper is on “Understanding Emission Characteristics of a Foundry Sand Binder,” and Erik Wolter will present on “Electrical Transporting Anomalies in Nanometer Scale Manganese Films.” Their papers were selected from more than 3,500 submissions.

When do you turn back when you are going the other way? Then I’d need a third, and a fourth, etc.

The Grainger Foundation of Lake Forest, Ill., donated $5,000 to create the Grainger Graduate Assistantship for the CEEE. The grant will support a UNI graduate student who will coordinate the Iowa Green Schools Initiative, which will enroll several CEEE programs into one cohesive set of educational services. School administrators and teachers will learn how to make their school a green facility, and they will learn to teach students how to reduce their energy footprints.

The Department of Biology began an exchange program this past summer with National Chengchi University (NCCU) in Taipei, Taiwan. In July, students from UNI traveled to NCCU, where they worked in research labs in the Institute of Neuroscience and took Chinese language and culture classes. NCCU students also came to UNI in July and participated in the Summer Undergraduate Research Program and took English language and culture courses from UNI’s Culture and Intensive English Program.
Floods and soil erosion, conditions that have been worsening in the Midwest over the last few years, can rob Iowa of its fertile soil. Although many solutions have been proposed, such as levees, terraces and wetlands, they are often short term. “To address the problem at its source, we have to look at the function of plants on the landscape,” said Laura Jackson, professor of biology.

Instead of looking at conventional solutions, Jackson is looking underground—at the roots of growing plants. Perennial prairie plants, with their massive root systems, help slow runoff, trap sediments and pollutants and rebuild the structure of damaged soil while storing atmospheric carbon, she explained. “Perhaps because these roots are invisible, many people lack a clear understanding of what native plants can do.”

Following this logic, Jackson decided that what was needed was to make prairie roots visible. With funds she received from the Living Roadway Trust Fund (LRTF) in 2009, she began a project to do just that—to grow the plants in such a way as to reveal the intricate network of roots and then create a public display of the native prairie underground, with supporting interpretive materials for a wide audience.

Using an idea pioneered at the Land Institute in Kansas, Jackson and her students constructed a “big pots” facility at UNI in 2009-10. The 34 pots, made of PVC pipe 10 inches in diameter and 10 feet long, were “planted” vertically in a plot behind UNI’s Biology Research Complex. Turface was used as a rooting medium for a variety of perennial species, and the plants were fed with an automated fertilizer-water system during the summer time.

The first growing season, in summer 2010, demonstrated that grasses were easier to establish than forbs, but there was also some winter kill. The first attempt at pulling pots and washing out roots was in fall 2010. Three pots were pulled out with a backhoe lift; roots were washed out and soaked in a glycerin solution for preservation. In one year the roots had grown between three and four feet. When pots were pulled in 2011, the roots of the plants were six feet maximum in length, with a fuller, thicker root ball than in 2010.

With continued LRTF funding approved in July 2011, the project’s goals for 2011-13 are focusing on developing and testing ways to transport, display and protect specimens; researching the interpretive material by collaborating with UNI faculty and end-users such as nature center directors and high school science teachers; and loaning out the 10 to 12 specimens as prototype exhibits.

In May 2012, Jackson and her students will begin to pull out and process one third of the 34 potted plants, while at the same time refining methods of preservation and storage. The following fall they will begin developing the exhibit, first by assessing the needs of their intended audience, such as county nature centers and science classrooms. They will also consult with a variety of UNI faculty and staff with expertise in biology, chemistry, science education, communication and design arts. The group will investigate collaborations with various campus organizations to construct root exhibits.

“Our goal is to increase Iowa’s resilience to heavy rainfall, soil erosion, water contamination and flooding,” said Jackson. “Admittedly, this is a long-term and ambitious goal, but we hope that increased public understanding of how native perennial plants can contribute to a solution will be the first step to increasing the amount of perennial vegetation in the landscape.”

Students and a volunteer use hoses to spray down the roots. Laura Jackson and students open a pot to reveal the roots and turface, which was used as a rooting medium.
FACULTY RESEARCH

Mark Myers, assistant professor of biology, and colleagues at the Tallgrass Prairie Center are determining optimal methods for managing prairie vegetation for biofuel production while maintaining high-quality habitat for native wildlife. Research plots in Black Hawk County were seeded in May 2009 with one of four treatments of native vegetation, ranging from a single-species monoculture to a diverse 32-species mix. Native plant establishment at the site was excellent, according to Myers. During the 2009-11 growing seasons, Myers and his students, Benjamin Hoksch, James Mason, Jarrett Pfirrman and Drew Miller, monitored wildlife responses to the newly established grassland habitat, finding significantly greater butterfly abundance and species richness in the more diverse treatments and documenting successful nesting in the biomass production plots by three grassland birds classified as "species of greatest conservation need." Their results were published in the Journal of Insect Conservation. Ultimately, Myers hopes the results of the study can be applied to developing methods for using marginal farmlands in biofuel production in a manner that also provides improved habitat for Iowa’s grassland wildlife.

Lexi Friau developed a convergent synthetic approach to successfully synthesize the first target molecule. Ben Schafer, associate professor of computer science, has been working with a colleague on an infrastructure for a customizable student response system. With funding from the Grow Iowa Values fund, a summer research grant from UNI and the assistance of two undergraduates, he studied the use of Android apps as an input device in a collaborative classroom setting. Their framework expands on the idea of traditional “clickers,” with which students respond to basic multiple-choice questions, so that a diverse set of inputs will enable students to collaborate with each other and with professors in a classroom.

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James Walters, professor of geology, is searching north-east Iowa for sites with relic ice-wedge casts and/or other relic periglacial phenomena and describing the features at such sites in an attempt to interpret the late glacial/periglacial environment of northeast Iowa. He and one of his students discovered a site northwest of Cedar Falls that contains an excellent exposure of eolian sand over pre-Illinoian till. The eight samples they collected for optically stimulated luminescence dating have been dated, and they are now working with a doctoral student at the University of Wisconsin-Madison on additional dating of eolian deposits in northeast Iowa.

Hong (Jeffrey) Nie, assistant professor of industrial technology, is focusing on establishing a generic intra-vehicle, vehicle-to-vehicle and vehicle-to-infrastructure communication platform that can provide drivers real-time vehicle, road, traffic and accident information so as to reduce accidents and improve traffic flow. With a colleague at the University of Michigan-Dearborn who is a leading researcher on WAVE (wireless access in vehicle environments) technology, he is working on National Science Foundation-funded research developing new wireless communication and signal-processing technologies to achieve a reliable data communication link even when vehicles are running at freeway speed.

Marius Somodi, associate professor of mathematics, is investigating zeta functions of finite graphs and graph coverings, specifically 1) families of graphs for which the zeta function and the spectrum of the adjacency matrix determine each other and 2) graph coverings in which prime cycles from the base graph have similar decomposition laws. He and his graduate students have had success in understanding the zeta functions of cones and cylinders, and they are currently looking to extend their results to joins of regular graphs and permutation graphs.

Andrew Stollenwerk, assistant professor of physics, is investigating electron transport through manganese thin films on silicon substrates using ballistic electron emission microscopy. Examining the differences after introducing a hydrogen atmosphere will be the first step toward the realization of a manganese/silicon hydrogen sensor. Secondary is the investigation of single-electron charging in thin films, with possible high-density memory storage applications.

Geology student Jake Davidson excavates wind-sculpted boulders (ventifacts) from eolian sand on top of glacial till northwest of Cedar Falls.

UPDATE COMEBACK

Science update conferences for teachers were once annual events at UNI, but until recently they had declined in frequency. In 2011 three update conferences for science teachers were held at UNI: the Earth Science Update, the Physics Update and the Science Update, which combined biology and chemistry. The Physics Update was held in conjunction with a grant, and the Earth Science Update resumed a tradition begun in 1986 after a one-year hiatus. The Science Update Conference was made possible by a former biology teacher who attended many update conferences held in the 1990s and found them very helpful. Warren Bromann, B.A. Biology/General Science ’72, made a gift to the UNI Foundation to create the annual Science Educators’ Content Symposium. The first symposium, held March 25 on the UNI campus, targeted science educators interested in enhancing their classroom knowledge and skills. The topics were biological evolution and laboratory safety.

Bromann, who taught a variety of sciences in the Iowa Falls school district for 33 years and retired in 2004, hopes that the symposium provides a professional development opportunity similar to the update conferences he attended at UNI. “I think it’s important to give our science teachers some additional support, especially those who have to do multiple class preparations or are creating new preparations,” he said. “The science updates at UNI were a valuable resource for me when I was teaching, and I really appreciated the opportunity to make a connection with the science faculty at UNI.”

Cherin Lee, Science Education chair, concurs. “No Child Left Behind, with its heavy emphasis on literacy and mathematics performance, has tended to have the effect of minimizing science-oriented professional development for science teachers. Offering update conferences for biology and chemistry is an important part of UNI reaching out to Iowa science teachers.”
Jennifer Erich graduated from UNI in 1998 with a B.S. in geology. A geoscientist with ExxonMobil since 2000, she recently established the Jennifer and Andrew Erich Undergraduate Research Assistantship in Earth Science at UNI. The first recipient of the award is Elizabeth Madsen, who is working with Earth Science faculty members Chad Heinzl and Ken DeNault on a project on Iowa’s environmental sustainability, specifically heavy metal contaminant transport.

How would you describe your career path since you graduated from UNI? After graduation in 1998, I completed a master’s degree in geology at the University of Iowa. I was offered an internship with ExxonMobil in 1999 and joined the company in 2000 as a full-time geoscientist. The types of projects I have worked on have been quite varied and exciting. I have spent a lot of time as a petrophysicist, which involves interpreting well log data in drill wells. I have also worked as a prospecting geologist, looking at seismic data and creating maps to determine new locations to drill. I became a geologist in my freshman year at UNI, I had no idea where the path would lead me or the career I would have. It’s a more rewarding and exciting job than I could have imagined.

What were your undergraduate research experiences at UNI like? The Iowa Space Grant Consortium funded a couple of my summer research projects. Since I was also really interested in the Department of Physics, I worked on a project that compared Martian permafrost patterns with those on Earth. A later project focused on Alaskan permafrost variation over the past few decades. I also spent a summer working with mapping software to determine the source of lava flows on Venus compared with lunar flows. Learning how to define a problem and then using the scientific method to solve it was a great way to spend the summer. I didn’t realize it at the time, but this experience really helped me with my master’s thesis and later, my career.

What was the benefit of having a research opportunity? The research grants and resulting publications really made my resume attractive to graduate schools and potential employers. It’s not very common for undergraduates to have two or three publications or presentations at professional meetings to their credit, so it made me a strong candidate. The public speaking experience at conferences and poster presentations was valuable in job interviews and business meetings. I am able to speak confidently about my projects and defend my ideas and results.

Why did you decide to fund the Erich Undergraduate Research Assistantship in Earth Science? My years at UNI were some of the best experiences I had. The professors went out of their way to mentor me and to provide opportunities and scholarships to help my education. I was a teaching assistant for geology and astronomy classes and president of Sigma Sigma Gamma. When I graduated, I was honored to receive the Lux Service Medalion. I have been supporting the Earth Science Department for years and decided to step up my donation with this research assistantship to give back to the department and the university that set me on a path of success. I hope that future recipients will have a head start when they graduate and find good jobs in the industry. • • •

Parallel computing, in which many calculations are carried out simultaneously, is the latest seismic shift in the computer world. It operates on the principle that large problems can often be divided into smaller ones, which are then solved concurrently. The shift to parallel computing, on the computer hardware side, is bringing corresponding changes to software. Whereas programming for nonparallel computing is sequential, parallel computing requires that problems be decomposed into independent units. Multiple processing elements can then solve these independent parts simultaneously. “This really changes the way we need to think about problems and solutions,” said Eugene Wallingford, head of the Department of Computer Science.

“It really changes the way we need to think about problems and solutions,” said Eugene Wallingford, head of the Department of Computer Science. Learning how to write the software, however, means that students have to have access to parallel computing hardware. And thanks to a recent grant of $40,000 from the State Farm Foundation, this is now the case. Parallel computing hardware, located in the Innovative Teaching and Technology Center, is now available for the use of students enrolled in Operating Systems, Computer Architecture or Computer Systems, two upper division courses and a graduate course. Students in these courses will be introduced to the concept of many-threaded parallel processing, where hundreds of threads work together to compute the task at hand. The equipment consists of two high-end servers, each equipped with three Fermi-class Nvidia C2070 graphics processing units (GPUs). These GPU devices possess 448 cores (processors) each, for a total of 1,344 processing cores in each system and 2,688 GPU cores combined.

“Eventually most programming will be done in this way, and languages will be developed that help programmers think in terms of parallel operations. Right now, the hardware is ahead of the software, but this is only temporary,” Wallingford said. “Having this equipment gives our students the opportunity to stay apace with developments in the digital world.” • • •
1950s

- Patricia (DeKoster) Echelberger, BA ’50, is active in Girl Scouts, her church and with her teenage grandchildren. She has traveled extensively in North America and Western Europe.

- Jim L. and Jeanette Windegarden, both BA ’50, recently moved from Cedar Falls to North Liberty to be near family. They celebrated their 63rd wedding anniversary in August of ’11.

- Robert and Charlene (Dolly) George, both BA ’51, celebrated their 60th anniversary in July of ’11. Bob is a retired industrial arts instructor. He and Charlene, who taught briefly at the start of their marriage, live in Anamosa and have two children and four grandchildren. They are very active in the community with service on the city council, library board and area Republican committee.

1960s

- Donavon L. Roberts, MA ’60, is a retired teacher and coach living in Inver Grove Heights, MN.

- George C. Coffin, BA ’61, of Kahoka, MO, retired after 44 years as a middle school/high school science teacher. He and his wife recently visited Gilbraltar, AZ, where they met their new granddaughter, Kaitlyn Elizabeth, eight months old. She joins brothers Peyton, 11, and Andrew, 4.

- Lyle W. Bingaman, BA ’69, retired after 30 years of teaching industrial arts and other vocational courses in Wyoming schools. During those years, he earned an MA degree from the University of Wyoming, was voted favorite teacher several times and was the senior head of the school district’s Vocational Department.

- Steven Hellman, BA ’69, was recently honored by 3M for reaching the 100-patent milestone. Only five other 3M employees have been awarded 100 or more U.S. patents. Hellman, who worked at 3M from 1973 to 2007, was an inaugural member of the College of Natural Sciences Advisory Board, on which he served until ’06. His major research interests are electro-organic chemistry, synthetic organic chemistry, organic photochemistry, photopolymerization reactions, PSAs, reactive polymers, photosilica chemistry and enzymatic syntheses. After his retirement from 3M in ’08, he began working part-time as a research associate at the University of Minnesota Biotechnology Institute, where he conducts research on biomass conversion into fuel, mostly involving algae.

1970s

- Edward R. Hooper, BA ’70, retired from the 721st Civil Engineering Squadron of the Cheyenne Mountain Air Force Station, an Air Force military squadron with civilian engineering personnel, in ’06, where he was an engineering/tech/construction contract inspector. He became a member of the board of directors of Northern Churches Care, a family crisis center, and is now BoD chairman. The group provides rent assistance, utilities, food, medical assistance, legal advice and free tax preparation. In addition to Hooper, his mother and her aunt, her three sisters, and his daughter are UNI graduates.

- Rick Hofmeyer, BA ’74, MA ’91, was named the Girls Basketball Coach of the Year by the Iowa Girls Basketball Coaches Association.

1980s

- Gary Scholten, BA ’80, received the Alumni Achievement Heritage Honours Award, which recognizes outstanding professional achievement as well as involvement with and service to UNI, from the UNI Alumni Association in November ’11. Now senior vice president and chief information officer at Principal Financial, Scholten has held various positions within the organization since he joined it in 1980 and now leads a global staff of approximately 2,000 people. He has taken an active role in developing programs aimed at generating interest among Iowa middle and high school students in information technology careers. Scholten has been instrumental in the growth and success of the Technology Association of Iowa, a nonprofit aimed at enhancing Iowa’s high-tech industry. His long history of support to UNI includes fostering connections between Principal and the university, serving as a charter member of the Computer Science Department advisory board, and facilitating connections between universities and industry as a member of the Iowa Department of Economic Development’s Information Technology Council.

- Kathleen Klier, BA ’80, an investigator with the U.S. Food and Drug Administration offices in Des Moines, married Joshua E. Close in May of ’11.

1990s

- Jennifer Larsen, BA ’90, began dental school at Southern Illinois University in August ’11.

- Don Van Alen, EdD ’91, of Midland, MI, was honored by 3M for reaching the 1000-employee milestone.

2000s

- Hannah Haarhues-Casey, BA ’03, MA ’11, a high school science teacher in Oakland, IA, moved with her husband, Adam, to Brisbane, Australia, where she began teaching biology and chemistry when the Australian school year began in February.

- Nathan Sandstrom, BA ’04, was married in ’07 and had a daughter in ’09, the same year he started his own construction company in Fort Dodge.

- Wayne R. Tjelmeland, BA ’02, MA ’03, of Bloomingom, IL, died in April of ’10.

- Kenneth D. Stauffer, MA ’66, of Elizabethtown, PA, died in May of ’07.

• Jennifer Larsen, BA ’90, began dental school at Southern Illinois University in August ’11.

• Libby Reindl, BA ’10, is pursuing a master’s degree in occupational therapy at the University of Wisconsin-Madison.

• Jane Dell, PSM ’11, began the position of manager of Capitol Reef Field Station, a biological field station operated by Utah Valley University within Capitol Reef National Park, in summer ’11. Her position involves educating field visitors to the ecology of the Colorado Plateau, managing an “off the grid” solar facility, including maintenance and budgetary aspects, supervising interns and grant writing. She is a graduate of the Biology Department’s professional science master’s program in ecosystem management. As part of the degree requirements, she interned at the Rocky Mountain Research Station, a branch of the U.S. Forest Service, where she collected data on public and private forested lands. The data were used to identify trends in forest ecosystem health, fire effects and fuel loads, and potential timber production.

• Andrew Bloomcamp, BS ’86, a senior systems engineer with Allstate Insurance, married Kimberly Brand in August of ’10.

• Kathleen Keller, BA ’08, an investigator with the U.S. Food and Drug Administration offices in Des Moines, married Joshua E. Close in May of ’11.

• Kimberly [Mescal] Williams, BA ’92, and her husband, Eric, have a son, Aidan, born in September ’10. He joins Collin, born April ’07.

• Ariana Houe-Liebsch, BA ’02, who is an associate veterinarian at North Heights Veterinary Clinic, in Appleton, WI, gave birth to a daughter, Ellison Ava, in November ’10.

• Wayne R. Tjelmeland, BA ’02, MA ’03, of Bloomingom, IL, died in April of ’10.

• Kenneth D. Stauffer, MA ’66, of Elizabethtown, PA, died in May of ’07.
It takes a lot to put our kids through college these days. It takes commitment from both the student and the faculty to do their respective jobs in the classroom; from family, friends and mentors to support their student—financially if they can, most certainly with their moral support and encouragement.

Luckily, though, our students also have the commitment of people whom they don’t know and will likely never meet: people like you, our friends and alumni, who make an impact every day with your generosity. Never underestimate the difference you make—whether you loyaly make a commitment every year when our student callers contact you for the Dean’s Fund or Annual Fund, or if you make a bigger one-time gift that endows a scholarship or creates a professorship.

Our students bring their hopes and dreams to UNI, and our goal is to send them into the world equipped to tackle career and life challenges. Thank you for your partnership in helping us to do that. Your gifts, no matter what area you support, will impact our students for the rest of their lives. That’s real commitment.

Gary and Myrna Floyd have created an endowed professorship through an estate gift to the UNI Department of Biology. The Dr. Gary and Myrna Floyd Endowed Professorship in Plant Biology will provide funds for faculty salary, professional development, equipment and technical support, as well as funding for undergraduate and graduate research assistants. As lifelong educators, the Floyds know how important such additional support is, and they want to make sure future UNI faculty have the resources to be the best educators they can be.

“The most significant impact on our careers has been our start at UNI,” said Gary. “We still remember the names and faces of our instructors. I think UNI is just the right size: large enough to hire super-quality faculty and small enough for students to receive individual attention.”

Gary and Myrna taught in Grinnell before moving to Oklahoma, where Gary earned his master’s degree at the University of Oklahoma. Myrna continued teaching middle school science and earned her master’s at Miami University of Ohio after Gary accepted a position to teach botany there and began work on his Ph.D. Gary then became a professor of biology at Rutgers University in New Jersey, and Myrna taught junior high science. In 1973 they moved to Columbus, where Gary eventually became dean of the College of Biological Sciences at Ohio State University and Myrna taught general science. They both retired in 1986 after teaching for a combined total of over 60 years.

Dale and Janet Hawley of Manhattan, Ks., have recently made a planned giving commitment that will create two generous scholarship endowments for future chemists and chemistry educators. Proceeds from the Hawleys’ gift of rural Kansas property will create the Dr. Dale and Janet Hawley Chemistry Endowed Scholarship and the Dr. Dale and Janet Hawley Chemical Education Endowed Scholarship. Dale and Janet, who have long supported the Chemistry and Biochemistry Department, knew they could make a significant impact upon the lives of future chemists and chemistry educators by gifting their rural land to UNI.

Dale’s UNI chemistry professors were James Kercheval, Leland Wilson and Howard Lyon, all of whom strongly encouraged their students to pursue advanced studies in their chosen professions. With the foundation in chemistry that they provided, their encouragement, and the confidence in abilities and skills they instilled, many of their students went on to earn advanced degrees in chemistry, medicine and education. The Hawleys’ scholarships are intended to honor their commitment to chemical education and to prepare future outstanding undergraduate chemistry majors for careers in chemistry and chemical education.

Dale earned bachelor’s and master’s degrees in chemistry in 1960 and ’62, taught high school science and math for one year at Williamsburg, and received his Ph.D. in chemistry in 1965 from the University of Kansas. Janet received her bachelor’s degree in art in 1959 and taught in the Reinbeck and Dike school districts in the year following her graduation. Dale spent one year as a research chemist at the Dow Chemical Company following his graduate studies before accepting a faculty position with the Kansas State University Department of Chemistry in 1966. He served 38 years at KSU, including nine years as department head, and retired in 2004. They have three daughters, Julie in Houston, Jenise in the D.C. area and Joyce in St. Louis, and five grandchildren.

The success of many of our students relies heavily on the contributions, involvement and guidance of our alumni.

We extend a heartfelt thank you to all our CHAS alumni who have so generously given of your time, treasure and talents to ensure the success of our students.

To further assist in the achievements of our students, please visit www.uni-foundation.org or contact Cassie Luze, CHAS Director of Development, 319-273-6360, 800-782-9522 or cassie.luze@uni.edu.
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The University of Northern Iowa is an equal opportunity employer with a comprehensive plan for affirmative action.

A UNI chemistry student cradles a fireball in her hands after methane-filled bubbles were ignited during the Chemistry and Biochemistry Magic Show at Family Weekend.