Legacy News
May 2017

Pres. Wilson & Gov. Daugaard in front of CBEC
Governor Dennis Daugaard was among the dignitaries who joined the ribbon cutting of the renovated Chemical & Biological Engineering/Chemistry Building (CBEC) at the South Dakota School of Mines & Technology April 13 in front of the south wing of the building.

The $6.6 million renovation to the south wing of the CBEC includes several upgrades: state-of-the-art laboratories, modernized classrooms for teaching and research, better office space for faculty and staff, new elevators that increase access to the building and upgraded student lounge areas including new windows and a deck space overlooking the Quad.

A basic knowledge of chemistry is key in almost every science and engineering course at SD Mines. Applied Biological Sciences is one of the university’s fastest-growing majors and attracts a wide range of students who are pursuing careers in the medical field.

Scientists and engineers, in both chemistry and biology, are key innovators for economic growth, and this facility helps SD Mines continue to turn out top-tier scientists and engineers to tackle the problems of tomorrow – a story picked up by U.S. News & World Report.
Intern Spotlight

Dakotah Rusley | NASA

Senior computer engineering student Dakotah Rusley from Baker, Montana, is interning this semester at NASA Goddard Space Flight Center in Greenbelt, Maryland. He has been involved in the research and development of a high-efficiency, low-power electric thruster for CubeSat operations, as well as provided support for a 3D imaging LIDAR that will fly on NASA’s upcoming Restore-L satellite servicing mission.

SD Mines held a groundbreaking ceremony and press conference on Dunham Field at O’Harra Stadium to kick off renovations to the facility April 22.

O’Harra Stadium is a facility utilized by the university and the community. “South Dakota Mines, including O’Harra Stadium, is a community asset. I am pleased we are able to help with the beautification and maintenance efforts needed to upgrade the facility,” said Rapid City Mayor Steve Allender.

The Rapid City Vision Fund Committee, which oversees the community fund that is the result of a half penny sales tax implemented in 1992 to fund building projects, awarded the institution $1.9 million for the renovation project. Committee members joined community leaders, the Rapid City School District and SD Mines to break ground on the stadium improvements.

The upgrades include:

- New artificial turf and track surface to replace current surfaces nearing the end of their life expectancies.
- An updated digital scoreboard to provide live video feed and replay capability.
- New wrought iron fencing and brick pillars in front of the stadium to replace the existing chain link fence.
- A new digital marquee to replace the static display on the north side.

The events at O’Harra Stadium draw huge crowds from around the region and add millions of dollars to the local economy. These include the State High School Track and Field Championships, major football games, like the annual matchup between Rapid City Stevens and Central, and the “Black Hills Brawl” between SD Mines and Black Hills State.

The artificial turf that is being removed will be donated to several local community groups who will use it for their own facility enhancements, including Rushmore Little League, Post 22, The Rapid City School District and Rapid City Parks and Recreation.

The renovations officially began April 25 and will conclude before the start of fall football camp at the beginning of August.
SD Mines Teams Win Governor’s Giant Vision Business Plan Competition

SD Mines teams earned top honors in the Governor’s Giant Vision Business Competition, winning both the business and student divisions.

“The Governor’s Giant Vision Competition gives a boost to student and faculty entrepreneurs who seek to move their innovations from the lab to the marketplace. These teams from SD Mines show that investment in higher education and investment in research and development can translate to high-paying jobs and economic growth,” said Mines President Heather Wilson.

NP Systems integration with Daniel Stanton, a Mines Entrepreneur in Residence (EIR), won first place, and the $20,000 prize, in the business division.

NP Systems Integration, LLC (NPSI) is a SD tech startup created in collaboration with Mines researchers.

Mines professors involved in NP Systems include Jon Kellar, Ph.D., and William Cross, Ph.D. who originated the project with Stan May, Ph.D., of USD. Researchers who did most of the experimentation and development include Jeevan Meruga, Ph.D., David Langerman (CENG 17), Julian Brackins (CSC 17), John Rapp (ME 2017) and John Hillard (ME 19).

NPSI’s research partner is The Center for Security Printing and Anti-Counterfeiting Technology (SPACT), located on campus. Since 2009, SPACT has received more than $1 million in research funding to develop an innovative new system for securely marking products using nanotechnology.

“NPSI and SPACT have leveraged this research to create an anti-counterfeiting platform that is secure, flexible and affordable. This technology will be marketed under the brand name SecureMarking™,” Stanton said.

Provender, a company started by Mines student Henry Wegehaupt, a senior in electrical engineering, tied for first place in the student division. Wegehaupt invented an automatic cattle feeder. The machine is designed to save livestock growers labor, time and money.

Students Scyller Borglum and Zack Malone took home the $3,000 third-place prize with their business South Dakota Refining, which aims to build a next-generation oil refinery in eastern SD.

The awards were presented by Governor Dennis Daugaard.

Winners from SD Mines included:

Business Division
1st, $20,000 prize, NPSI, Daniel Stanton, Mines EIR

Student Division
1st (tied) $4,500 prize, Provender, Henry Wegehaupt
3rd $3000 prize, South Dakota Refining Company, Scyller Borglum, Ph.D. candidate in geology, and Johnathon Malone (Zack), geological engineering senior.

Mines student finalists in the competition also included Kelsey Hibl, Ian Hoffman, Alex Spilman, Dustin Johnson and Matt Wilcox.
Students in the Paleontology Resource Management class are leading a push to preserve and protect the largest known concentration of Jurassic dinosaur bones in the world. The site includes dinosaurs like the Allosaurus, an older carnivorous cousin of the more famous T. rex, and the Stegosaurus, the plant-eating dinosaur with a spiked tail and bony finned back.

*Cleveland Lloyd Dinosaur Quarry* in central Utah is on federal Bureau of Land Management land. But the widespread array of Jurassic dinosaur fossils at the quarry are protected only by aging metal buildings, almost open to the elements. Without careful preservation, the resources on the site could be lost to erosion, or even theft and vandalism.

“This class gives real-world experience to Mines students to build up the skills they need in working with or for federal, tribal, state and local government agencies when it comes to identifying and preserving rare paleontological resources for future generations,” said Sally Shelton, associate director of the SD Mines Museum of Geology.

Paleontology students traveled to Utah and visited the site over their spring break. They also sought input from leaders in the field, including experts from the Mammoth Site in South Dakota, the Dinosaur National Monument (National Park Service) in Colorado and Utah, the Ashfall Fossil Beds State Historical Park (Nebraska Game and Parks Commission and University of Nebraska), Toadstool Geological Park (U.S. Forest Service), and Hudson-Meng Research and Education Center (USFS) in Nebraska. Students are using sites like these as models for how to preserve and showcase large concentrations of fossils in the places where they are found.

Shelton says the scientific significance of these beds cannot be overstated. The Cleveland Lloyd site could be most simply described as a pile of dinosaur bones. There are no fully articulated skeletons at the quarry; rather the site contains a high concentration of the fossilized bones, mainly of Allosaurus specimens, all scattered across a large area. How these animals died and how their bones became concentrated in this place are intriguing scientific mysteries in need of further study.

Students are sharing their work with federal land managers and the public to consider in the future decision-making process as to how best to care for and preserve these vital paleontological resources.

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**Mines Ranked No. 1 Best Value in South Dakota**

SD Mines has been named the top university for best value in South Dakota in SmartAsset’s Best Value Colleges study, which ranks universities in categories of scholarships provided, starting salary, tuition, living costs and retention rates. SD Mines was named the No. 1 Best Value in South Dakota in 2016, as well.

“South Dakota Mines is a great value. We are consistently one of the best returns on investment for a college education in America,” said SD Mines President Heather Wilson.

SmartAsset gave 25 percent weighting to starting salary, tuition and living costs and 12.5 percent weighting to scholarships, grants and student retention rate to come up with a ranking of universities in its analysis. With that ranking, it created an index on a scale of one to 100. SD Mines ranked nearly 35 points higher than the second-highest ranked school, South Dakota State University.
Physics Ph.D. student Tyler Borgwardt has been awarded a Boren Fellowship to study in South Korea for the 2017-18 academic year. Borgwardt’s background is in nuclear physics and forensics, focused on attributing sources to nuclear weapons materials. For his fellowship, he will study the Korean language at Sogang University and Jeju National University to tailor his nuclear expertise to the Korean Peninsula, with a future career focused on the nuclear ambitions of North Korea and the security of the South Korean military’s cyber command.

“The Boren Fellowship will give me an opportunity, that otherwise would have been difficult, to work in a capacity to serve my country, while also helping with global security. It will allow me to develop a unique combination of skills that will be useful for helping with one of the largest nuclear threats in the world today,” Borgwardt said.

“The Korean Peninsula is an integral region for U.S. and global security. The nuclear ambitions of North Korea are one of the most consequential and unpredictable issues in the world. In addition, North Korea has some of the best, well-organized hackers as evidenced by the hacks on Sony and South Korean entities, including its military’s cyber command,” he added. Nuclear proliferation and cybersecurity are two of the most critical security issues facing the U.S. today.

“This is a great honor for Tyler and a tremendous opportunity to broaden his education by studying abroad,” said SD Mines President Heather Wilson.

In exchange for funding, Borgwardt must work in federal service following his fellowship. He hopes to pursue a position as a science, technology, and weapons analyst at the CIA. “North Korea is actively pursuing more advanced nuclear capabilities and poses a threat to the rest of the world. Understanding the language, region and culture, in addition to the science of nuclear weapons, would be a valuable combination of skills to assess capabilities and offer solutions,” said Borgwardt.

As part of his Ph.D. research, Borgwardt helped construct and test the Compact Accelerator System Performing Astrophysical Research (CASPAR) accelerator system, the first underground accelerator in the United States, housed at the Sanford Underground Research Lab. His dissertation will include running the first experiment. CASPAR was constructed in an effort to understand the universe’s origins by mimicking nuclear fusion in stars.

Borgwardt earned his master’s in applied nuclear physics from Mines in 2014, working on a project applying Photon Activation Analysis to paleontology and archeology, which correlates trace element concentrations in fossils and surrounding rocks to the original location where the fossil was formed. This research is critical as many fossils have been separated from their original locations, and understanding these trace elements can give clues about the living animal prior to death and fossilization.

Sponsored by the National Security Education Program, Fellowships allow language study in countries critical to U.S. security. Of 340 graduate applicants, 114 Fellowships were awarded this year. Fellows will live in 44 countries in Africa, Asia, Europe, Eurasia, Latin America and the Middle East and study 36 languages including Arabic, Mandarin, Russian, Portuguese, Japanese, Swahili and Korean.
A team of students with the South Dakota School of Mines & Technology Engineering Projects in Community Service (EPICS) program is taking on the design of tiny houses that can meet the needs of a segment of Rapid City’s homeless population.

The Tiny House Team has partnered with the Western South Dakota Community Action Agency, a nonprofit organization, to identify the critical design elements needed to make a tiny house work for homeless individuals in Rapid City. Team members are also working closely with local agencies and community organizations that serve this population to understand needed design elements like accessibility, security, safety and ease of access for emergency responders.

Team members credit the tiny house idea to the late Linda Edel. “It was her goal that no one in Rapid City would ever freeze to death during the winter,” said team member Hannah Moen, a sophomore in metallurgical engineering. Edel passed away last year. Team member Jamie Caffee, a senior in mechanical engineering, points out that “much of our inspiration and excitement for this project comes from her passion. She is the person that really started this whole thing.”

The multidisciplinary Tiny House Team also includes Cheyanne Herbert, senior mechanical engineering, Jamie Caffee, senior mechanical engineering, Kristen Haller, sophomore mechanical engineering, Ronald Kitoy, sophomore civil engineering, Devin Mollers, freshman civil engineering, and Angel Nunez, applied and computational math. Vaughn Vargas is a Mines graduate, and one advisor to the project. “One of the most important aspects of design is understanding the clients,” said Vargas. “For this project to be successful, it has to put the needs and desires of those who use these shelters first and foremost.”

Several organizations in town work to help homeless people. Organizations like the Cornerstone Rescue Mission and the Hope Center serve thousands of individuals each year. Members of the Tiny House Team hope their project can be a new tool in the effort to help homeless individuals off the streets and into safe spaces to begin a transition out of poverty.

The Tiny House Team is part of the EPICS program at Mines. EPICS allows undergraduate students to earn course credits for participation in teams that address community needs and tackle real-world projects. EPICS was funded by National Science Foundation grant titled “Collaborative Research: Intellectual Diversity and Critical Thinking Skills in Service Learning.”

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**Police Department Recognizes Students for Crime Lab Work**

The Rapid City Police Department (RCPD) recognized Wyatt Tatge and Ventura Sowers for their work in the crime lab helping identify illegal drugs by analyzing video and audio evidence. Pictured top left: Certified Forensic Video Technician Tim Appel, geological engineering sophomore Tatge and Lab Director Brendan Matthew. Pictured bottom left: Chemical engineering senior Sowers and Mines alumus and forensic chemist Richard Wold.
CAMP Celebrates 20th Anniversary

The Center of Excellence for Advanced Manufacturing and Production (CAMP) celebrated its 20th anniversary April 17 in the King Center Hall of Fame on campus with around 150 guests attending the celebration.

CAMP comprises competitive engineering teams including Aero Design, Alternative Fuel Vehicle (an all-electric snowmobile), ChemE Car, Concrete Canoe, Formula Racing, Human Powered Vehicle, Mini Baja, Robotics, Steel Bridge, Supermileage Car and Unmanned Aerial Vehicle.

The Concrete Canoe team recently placed first regionally and is headed to national competition in June.

Mines Hosts Seminar on Reducing Weather and Climate Impacts

SD Mines hosted a seminar titled “Sustainable Tools for Reducing Weather and Climate Impacts” with featured speaker Cindy Bruyère, Ph.D., Deputy Director, Capacity Center for Climate and Weather Extremes with the National Center for Atmospheric Research (NCAR) in Boulder, Colo.

Bruyère and others in her field point out that the economic impacts of weather and climate extremes are rising, as global population grows and moves into urban and more hazard-prone areas. In response to the growing need for information on the impacts of climate change, researchers within NCAR’s Capacity Center for Climate and Weather Extremes are partnering with a wide range of organizations to develop GRRIT – the Global Risk Resilience and Impacts Toolbox.

GRRIT places the tools and information to advance understanding of extreme events and their effects within reach of decision-makers and planners making society’s tough choices. GRRIT uses a sophisticated framework that provides users with access to hazard, vulnerability and exposure information and data from a broad variety of public and private sources via tools available within a web interface.

Government agencies, industry, universities and others have already started to develop information and tools that can be used by decision-makers to chart the best path for reducing the impact of extreme events. However, these data and tools may not be readily available, exist in formats accessible to the average user or be adaptable to related regions and requirements.

GRRIT’s sustainable, fully supported toolbox is designed to provide a common foundation for these and future developments, ones that aid society in reducing weather and climate impacts, building economic resilience and improving disaster recovery. In keeping with NCAR practice for community facilities, GRRIT will be freely available and will be maintained and supported by NCAR.

Featured speaker Cindy Bruyère is also a visiting research fellow at the North-West University of South Africa. She holds a M.Sc. in Dynamical Modeling and a Ph.D. in Environmental Management. She started her career at the South African Weather Service, where she rose to assistant director of research programs and project manager for operational systems.

The seminar was jointly hosted by Atmospheric and Environmental Sciences and the Department of Civil and Environmental Engineering at Mines.
The spare beauty of the prairie resonates in the work of Wade Patton in the Apex Gallery’s recent exhibit “Wade Patton: Seasons.”

An Oglala Lakota tribal member, Patton grew up in the Black Hills surrounded by a rich culture of music and art. He obtained a bachelor’s in art from Black Hills State University before moving to Boston.

Patton says it took leaving South Dakota for him to find the voice in his most recent body of work. He pursued arts opportunities in Boston, but longed for home. “Living on the east coast, I began expressing what I missed, the beauty and splendor of the Black Hills and the skies of South Dakota. I started to draw landscapes and clouds, as a reminder of home,” Patton said.

Patton’s work was quickly recognized by collectors and galleries, and he started sending work back home for exhibits. It’s this recognition that helped fuel his desire to return home. “I missed my family, and I needed to pursue my art in the place where I find the most inspiration,” said Patton. “That decision brought me straight into the thriving Native art scene in Rapid City that clearly wasn’t here when I left.”

“Patton draws the viewer into his interpretation of the natural elements and seasonal changes of the land. His mastery of graphite evokes the subtlest of phenomena and his sparing use of color inspired by beadwork, orchestrates the prairie grasses, stormy skies and the power of buffalo,” said Deborah Mitchell, Apex Gallery director.

“He’s establishing a style of his own. There’s nothing like it right now in the Indian art world,” said Artist Don Montileaux on Wade Patton’s most recent work.

Price Named Dean of Graduate Education

Maribeth Price, Ph.D., has been named Dean of Graduate Education at the South Dakota School of Mines & Technology. Price became a professor in the Department of Geology and Geological Engineering at Mines in 1995. She has served as both the department chair and the graduate program coordinator.

Price is an expert in Geographic Information Systems (GIS) and remote sensing technology. She is author of the peer-reviewed textbook Mastering ArcGIS, now in its seventh edition. Her curriculum vitae includes over 100 funded research and academic projects, publications, presentations, supervised student research, awards and honors.

“Dr. Price has the combination of research experience and commitment to graduate students that will continue to strengthen the graduate programs at Mines,” said Mines President Heather Wilson. “She is well-respected and will be a great addition to the university leadership team.”

Price was born in Portsmouth, Va., in 1963. She graduated from Palo Alto High School in Palo Alto, Calif., in 1981. In 1985 she received a bachelor’s degree in earth science from Dartmouth College. She went on to Princeton University to complete her master’s in geosciences in 1989 and Ph.D. in geosciences in 1995. Price has two daughters aged 20 and 25, one in grad school in Pennsylvania and one in college in Montana.
Alumnus Vaughn Vargas Selected for 2017 Bush Fellowship

Alumnus Vaughn Vargas has been selected as a 2017 Bush Fellow, one of 24 leaders chosen for their records of achievement and extraordinary potential to make significant societal contributions. Selected from 639 applicants from South Dakota, North Dakota, Minnesota and 23 Native Nations, Vaughn will receive up to $100,000 over one to two years to pursue educational and leadership development experiences.

"To be selected as a Bush Fellow is truly an honor. Being a Bush Fellow allows to me develop myself to amplify my service to my community. I have researched areas where I need to work, and my passion matches the challenge," Vargas said.

As coordinator of the first-ever cultural advisory committee for the Rapid City Police Department (RCPD), an appointment taken while completing his degree at Mines, Vargas has worked to help cultivate a police force that reflects the racial makeup of the community. He is currently working to help diversify the RCPD by focusing on organizational behavior and culture.

With his Bush Fellowship, Vargas will develop new methods to recruit and retain Native American police officers. He will attend the Harvard Extension School for leadership training for a certificate in organizational behavior. He will also research historical Lakota leadership and diplomatic relations between Native Americans and the federal government. He plans to tie these areas of development together to design a program that recruits and retains Native Americans in law enforcement.

"Vaughn is an exceptional young leader who is choosing to make a difference in our community. We are very proud of him," said SD Mines President Heather Wilson.

Bush Fellows were selected through a multi-stage process involving Bush Fellow alumni, Bush Foundation staff and established regional leaders. Applicants described their leadership vision and passion and how a Bush Fellowship would help them achieve their goals.

"The 2017 Bush Fellows are extraordinary leaders who make significant contributions to their communities," said Bush Foundation President Jennifer Ford Reedy. "The Bush Fellowship is both a recognition of their accomplishments and a bet on their potential to make an even bigger impact on our region."

More than 2,000 people have taken advantage of the fellowship to become better leaders through a self-designed learning experience, academic program or travel and research across the country to build connections with thought leaders on topics critical to their community. The Bush Fellowship counts among its alumni celebrated Oglala Lakota painter and educator Arthur Douglas Amiotte, internationally renowned artist Judith Onofrio and former Minnesota Governor Arne Carlson.

Vargas also won numerous awards while attending SD Mines, before graduating with a bachelor's in industrial engineering in 2016. He was awarded the prestigious Truman, Udall and Hawkinson Foundation Scholarships and has been named among the "40 Under 40" by the National Center for American Indian Enterprise Development.

Nano Expo at SD Mines Highlights Small-Scale Technology

The ninth annual Nano Expo at SD Mines showcased how cutting-edge nanotechnologies can change the future.

Research covered a range of topics, flexible solar cells, bio-imaging, nanowires, quantum dots, thermal insulating composites, nano fibers and more.

SD Mines’ nanoscience and nanoengineering Ph.D. program is an interdisciplinary doctoral program focusing on the science and engineering of nanomaterials. The goal is to manipulate matter at the atomic and nano-length scales where new materials and phenomena have been discovered.

The university’s program offers a research-intensive degree, with faculty and students participating from the chemistry and physics departments, as well as the chemical, electrical, materials, metallurgical and mechanical engineering departments.

SD Mines is one of the institutions participating in the Bio-chemical Spatio-temporal NeTwork Resource (BioSNTR), whose mission is to create the tools and expertise needed to catalyze innovation and discovery in bio-science and bio-technology.
SD Mines students and faculty visit Kiewit Corporation's Buckskin Mine and get an inside peek at industry in action.

**Extreme CAMPing Comes to Main Street Square**

Attendees guessed how far a supermileage car could go on one tank of gas, got a look at the making of a concrete canoe and saw aero design in action.

CAMP, the Center of Excellence for Advanced Manufacturing and Production, hosted the event to showcase the center's hands-on educational approach and variety of competitive engineering teams.

CAMP is designed to teach students engineering, science and design skills, as well as the ability to work in teams.

Team members design, build, market and raise money for their projects, partnering with industry on real-world projects and national competitions.

Watch the drag races [here](#).

SD Mines students and faculty visit Kiewit Corporation's Buckskin Mine and get an inside peek at industry in action.
SD Mines research scientist and recognized expert in the stability of steel-framing systems Andrea Surovek, Ph.D., has been named an American Society of Civil Engineers (ASCE) Fellow.

After serving 11 years on the civil engineering faculty, Surovek is currently a SD Mines research scientist and program director for EPICS, a new service-learning program that combines multidisciplinary design projects with community service.

She created the university’s steel bridge team in 2003. She has served as the team’s advisor ever since. She also helped establish the first program for Women in Science and Engineering at Mines in 2004.

Surovek is currently leading an initiative to bring bio-inspired design into structural engineering research and practice. Her research examines termite mounds as a potential model for sustainable structural forms, integrating functions of strength, stability and ventilation. She recently organized a new technical committee for ASCE/SEI on bio-inspired structures and is serving as committee chair.

Recently Surovek received the ASCE George Winter Award in recognition of her achievements as an active structural engineering researcher and educator.

The award is presented to those who best typify the late Winter’s humanistic approach to his profession, that is, an equal concern for matters technical and social, for art as well as science, and for soul as well as intellect. In addition to her work as an engineer, Surovek is the founding director of Music Adds Up, a nonprofit that provides grants to elementary school music instructors, recognizing the beneficial influence music has on the development of mathematic and scientific skills.

Surovek also co-developed the approach known as the direct analysis method. It is the preferred process for steel stability assessment in the ANSI/AISC 360 Specification. She is coauthor of the textbook Structural Stability of Steel: Concepts and Applications for Structural Engineers and has authored more than 60 technical publications.

Surovek has been active with ASCE and the Structural Engineering Institute (SEI), having served as chair of the SEI Technical Committee on Structural Members as well as chair of the Technical Administrative Committee on Metals. Additionally, she has been an associate editor for the Journal of Structural Engineering since 2008, and was a guest editor on the special issue “Commemorating 10 Years of Research since 9/11.” She also completed distinguished service activities with the Structural Stability Research Council, serving as the only woman elected to the executive committee in the organization’s history.

Surovek leverages her passion for, and bachelor’s in, theater by promoting and personally participating in numerous theatrical productions, helping to support local theatre in her community.

She earned her two bachelor’s and a master’s from Purdue University and her doctorate from Georgia Tech.

Surovek Named American Society of Civil Engineers Fellow
Graduating Mines students showed off a year’s worth of technical design, research and achievements at the 2017 Senior Design Fair.

Among the nearly 50 senior capstone projects were an electric dirt bike, an imaging device to monitor crop health and increase food production, a composite guitar, a testing track to aid in the design of new wheelchairs and the Moonrockers robot, which is designed to navigate a lunar landscape for the annual NASA competition.

Traditional student design projects from Mines’ Center of Excellence for Advanced Manufacturing and Production were also on display, including a steel bridge, concrete canoe, Formula racing car, Baja off-road vehicle and the Hardrocker supermileage car, which can travel 1,000 miles on a single gallon of gas.

In addition to demonstrating their projects, students answered questions about their work and interacted with the public.

All graduating seniors in engineering disciplines and computer science are required to participate in two semesters of team design. Many of the projects receive sponsorship from private industry, government agencies and local businesses.
Spring Concerts Feature Music from Mozart to Modern Day

SD Mines hosted three free concerts in April. The orchestra and brass played favorites from Wagner to Mozart, with a bass solo featuring Mines student Christopher Orma. The jazz band and symphonic band played a concert of jazz and classics featuring swing, Latin and modern music. The university choir, concert choir and master chorale performed their concert with a mix of modern and jazz surprises.

The concerts will also be viewed on Facebook here.

Students Fuel Up for Finals with Late-Night Study Breakfast

The traditional finals-week late-night study breakfast was served to hundreds of students as an energy and morale boost for students taking end-of-semester final exams.

Mines faculty and staff members served pancakes, eggs, sausages and fruit, and Hardrocker gear and other donated items were given away in door prizes.

Mines Presents $2,000 Giant Check to Girls Inc.

SD Mines Women in Science & Engineering (WiSE) and Alpha Omega Epsilon (AOE) sorority presented Youth & Family Services’ (YFS) Girls Inc. with a giant check for $2,185. Funds will help support Girls Inc. Operation SMART (Science, Math and Relevant Technology). The program was begun on a national level in the mid-1980s in response to the shortage of women entering careers in scientific, mathematical, engineering and technical fields.

The funds were raised from WiSE’s and AOE’s recent STEMinist Glow Run, which saw 104 participants and 23 volunteers and exceeded last year’s donations raised.
Governor Marks Renovation Project At School of Mines

SD Mines Student Heads To South Korea To Study Nuclear Threat

Governor Distributes GOED and SD Chamber Awards

SD Mines Seniors Present Capstone Projects At Annual Design Fair

Canstruction Benefits Two Local Charities

Hardrockers look to help fossil preservation in Utah

Looking ahead to wildfire season

School Of Mines Faculty Member Digs Up ‘New’ Old Bones

O’Harra Stadium Kicks Off Renovations

SD Mines Team Designing Tiny Houses To Tackle Homelessness

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About Legacy News

Legacy News is produced by the Office of University Relations the first Wednesday of each month. The newsletter is a compilation of news releases, photos and Web articles.

To submit news or story ideas or to subscribe to the email distribution list, please contact Dani Mason, public relations officer, at 605.394.2554 or at Danielle.Mason@sdsmt.edu.

For more Mines news, visit news.sdsmt.edu