

FOUNDALIO WAR

A Quarterly Publication for Alumni & Friends

Mines family welcomes Wilson family

Inside This Issue

















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Jay, Joshua and Caitlin shown with President Wilson

Wilson to Lead School of Mines and Technology as President

Dr. Heather Wilson, a former member of Congress, Rhodes Scholar and small business owner who has worked with large defense and scientific companies, will become the 19th president of South Dakota School of Mines and Technology, the South Dakota Board of Regents announced on Thursday, April 25th.

Wilson succeeds the late Dr. Robert Wharton, who passed away in September. She will begin her duties on the Rapid City campus on or about June 17, and will become the first female president in the school's 128-year history. Since last fall, Duane Hrncir, provost and vice president for academic affairs on the Mines campus, has served as the acting president.

"Heather Wilson is a high-energy leader who brings exceptional communication skills and public-sector experience to her new position," said Regent Terry Baloun, chair of the search committee. "At a time when higher education increasingly must make its case for more external funding and sustained research support from the federal and private sectors, our search committee took particular note of Dr. Wilson's Capitol Hill experience, as well as her connections to decision makers in Washington DC and throughout the scientific research community," Baloun said. "We are excited to have her join our team," he said.

As president of Heather Wilson & Company LLC, of Albuquerque, NM, Wilson has worked as a senior adviser to top-tier national laboratories such as Sandia, Los Alamos, Oak Ridge, the Nevada Test Site, Battelle Memorial Institute, and others. She served New Mexico in the U.S. Congress from 1998 to 2009, where she was on the House Energy and Commerce Committee and was the chair of the House Subcommittee on Technical and Tactical Intelligence.

"Higher education is facing serious challenges," Wilson said. "The South Dakota School of Mines is showing how great schools can meet those challenges. Mines provides a rigorous, world-class education that prepares graduates for leadership in science and engineer-

ing at a price families can afford. It's a great school and I'm very proud to be the newest Hardrocker," she said.

About 98 percent of Mines graduates have jobs upon graduation, at an average starting salary of \$62,696 last year. That's better than Harvard and Yale, and, on average, Mines students have less than \$25,000 in student debt upon graduation.

I look forward to leading the expansion of Mines that Bob Wharton inspired and, tragically, was unable to finish," Wilson said. "We will increase research, build needed facilities, and expand the student body so that more young people are prepared professionals for the 21st century."

Nestled against the beautiful Black Hills in the southwest corner of the state, South Dakota School of Mines and Technology offers bachelor, master and doctoral degrees in science and engineering. It has a student body of 2,400 students and has been named one of America's Best College Buys for 14 consecutive years. It is one of the best colleges for military vets and more than 250 students are veter-

ans or active-duty service members.

Before being elected to Congress,
Wilson was the cabinet secretary of
New Mexico's Children, Youth,
and Families Department, where
she was chief executive of the state
agency which had a \$216 million
budget and 2,000 employees. She
also served on the National Security
Council staff in Washington DC
after she concluded her service as a
U.S. Air Force officer.

Wilson earned her bachelor of science degree from the U.S. Air Force Academy in the third class to include women. She completed her master's and doctoral degrees in international relations as a Rhodes Scholar at Oxford University in England. She is the second Mines president to have graduated from a U.S. military academy (the first being Harvey Fraser, who served 1966-1975) and the third to have served in the U.S. Air Force.

Continued on page 2

Trustees react to newest Hardrocker

"It was an honor for me to serve on the President search committee. We had a great slate of candidates and I am thrilled with the selection.

Dr. Wilson is a leader who will do a great job guiding SDSM&T to the next level. Dr. Wilson has a great team in the faculty and staff. As a trustee, I am also looking forward to my role in helping Dr. Wilson realize our vision."

Tami Nelson, Foundation representative on the presidential search committee

"Dr. Wilson is a great choice to continue the legacy of distinguished presidents who have guided the South Dakota School of Mines and Technology for the past 125+ years. She has a tremendous educational background and her professional career brings a wealth of experience that will create new opportunities for SDSM&T. Dr. Wilson will be a great role model and inspiration for students as they pursue leadership positions in the world of state-of-the-art technology."

Tom Zeller, Chair of the Foundation investment committee

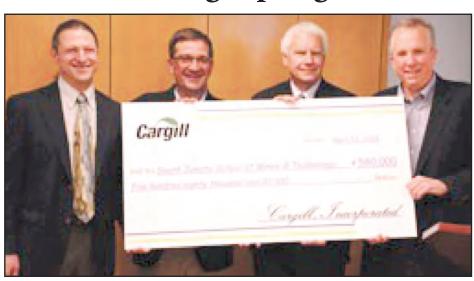
"Even though she doesn't come from an engineering or academic background, she has our Mines community of knowledgeable science and engineering professionals to help her in her new role as president of the School of Mines. I look forward to her leadership in the pursuit of the university's goals in the areas of public and private funding, enrollment, academic excellence and research."

Larry Pearson, Vice Chair of the Board of Trustees

"Im am very pleased Dr. Wilson has elected to become our next president. She's very accomplished and will represent the school extremely well to all constituents. Her education, work and life experiences bring great diversity to the university and will enhance our ability to realize our vision. I'm also very pleased she will be devoting a significant amount of her time partnering with the foundation and others to broaden our relationships and secure the needed resources for that vision."

Lorin Brass, Chair of the Board of Trustees

Cargill pledges \$580,000 gift to School of Mines



Cargill, Inc., has pledged \$580,000 to the South Dakota School of Mines & Technology for laboratories, scholarships and curriculum development in several departments.

The majority of the funding will support the Department of Chemical Biological Engineering, including support for programs which provide students opportunities for practical application of biological engineering. The gift will be administered over the next five years and will fund laboratories and curriculum development, scholarships, field trips and other professional development opportunities.

Cargill's gift will also support the mechanical engineering, mining engineering and electrical engineering departments.

Including the more than \$1.1 million in gifts prior to today's announcement, Cargill's investment in School of Mines programs and students totals nearly \$1.7 million since 1987.

The new gift is the result of continuous, active involvement of Mines alumni within the company, as well as the direct result of collaboration between the university, the SDSM&T Foundation and leadership within the Cargill Foundation.

SDSM&T is one of the top providers of engineering talent to Cargill, an international producer and marketer of food, agricultural, financial and industrial products and services. The privately held company, which employs 142,000 people in 65 countries, began a relationship with the university in 1971 when the first Mines graduate was hired. Today, more than 60 South Dakota School of Mines & Technology graduates work for Cargill, many in key leadership positions from the vice president level down.

Currently, 21 students have a working relationship with Cargill in the form of full-time employment awaiting them upon graduation, summer internships or semester co-op positions at company facilities throughout the Midwest.

In pledging the \$580,000, Cargill cites the School of Mines' ability to produce top engineering talent, including those who contribute to Cargill's business units "very quickly," and SDSM&T graduates' demonstration of innovation, particularly in the development of the bioengineering track. The company also cites Mines' hands-on curriculum focus, a student body with rural backgrounds in communities similar to those where Cargill facilities are located, small class sizes and a dedicated faculty. The student-to-faculty ratio at the School of Mines is 14:1.

In recent years, Cargill has been the primary corporate partner with SDSM&T in the SD GEAR UP summer program for high school students from reservations statewide. Cargill provided \$45,000 to the program over the last four years for curriculum and programming that otherwise would not happen due to restrictions with state funding sources.

Cargill representatives were on campus Friday for the announcement, which was made in the Cargill Biochemical Engineering Laboratory, of the new Chemical and Biological Engineering and Chemistry Building.

RESPEC Awards first \$10K undergraduate research grant to Mines student's eco-friendly research

Essential to a robust economy, mining contributes more than \$500 million to South Dakota's annual gross domestic product. But the profit comes at a cost. Mining may cause significant environmental and human health threats from discharges of acidic and toxic water. South Dakota School of Mines & Technology civil and environmental engineering student Aditya Chivukula Venkata has found a promising solution. And RESPEC has awarded him the first-ever \$10,000 RESPEC Undergraduate Research Grant to transform his ideas into impact.

Acid mine draining is a major source of both surface and water contamination, especially in coal and metal mining districts. The acidity and high metal concentrations in this drainage are toxic to aquatic life, wildlife and vegetation. And they have a domino effect, impacting human health through fishing and swimming, which in turn impacts tourism another integral component of the state's economy. Contaminated groundwater and surface water can also infiltrate into agriculture zones resulting in contaminated food products.

Simultaneously, the coal power plant industry is experiencing a growth in the production of the waste product high carbon fly ashes (HCFAs) in recent years. Sixty-eight percent of HCFAs end up in landfills with the potential to leach heavy metals into the surface and groundwater.

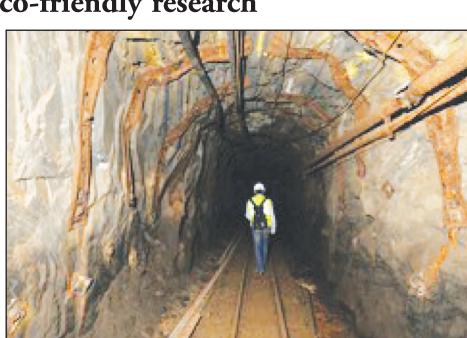
connection: Venkata found that the high carbon content in the fly ash is an excellent property for the sorption of acid

mine drainage and tailing contaminants and its high pH has the potential to neutralize drainage and tailings. In short, he's taken two critically important environmental challenges and used them to solve each other – and done so in a sustainable manner. All three waste materials used, high carbon fly ash, acid mine drainages and mine tailings, will be recycled.

The RESPEC award will be used to investigate the feasibility of implementing the fly ash as sorptive barriers for the neutralization and remediation of acid mine drainages and mine tailings in South Dakota. If the approach pans out, its impact will be considerable. As Ronald White, Ph.D., vice president for Research Affairs, notes, "This is the first time we've had this level of funding dedicated to undergraduate research."

The company will also offer Venkata an internship during the summer following his senior year, with the intent "to provide an opportunity for the student to gain valuable experience within industry while still obtaining their education," Todd Kenner, Ph.D., president and CEO of RESPEC, explains.

Kenner is hopeful that the grant will encourage students to pursue graduate education as well, to mutual benefit. "We believe our continued support of this public/private partnership is critical to the future success of both organizations. The growth and vitality of the company is directly related to the talent of employee professionals. RESPEC emphasizes education and experience. Having a strong



theoretical science and engineer- provide outstanding graduates ing foundation helps us solve our and great employees. We hope client's complex problems in the applied world."

The award comes as part of a larger commitment by RESPEC of \$250,000 over five years to the School of Mines' research efforts. RESPEC has committed to match employee donations up to a combined total of \$50,000 per year for five years. A portion of the funds will be used immediately to support research, and the remainder will be endowed for the same purpose. Endowments allow the principal to be invested with the earnings funding the annual awards, thus enabling the fund to continue in perpetuity.

Mike Selzer, president of the SDSM&T Foundation, underscores the importance of this col-"The partnership laboration. between RESPEC and the university is just one of several ways that we can work with companies to

this model can be used by other companies to further their interests and get them connected to the university's excellent research

A Rapid City company founded in 1969 by five School of Mines professors, RESPEC has grown to become an acclaimed national leader in mining and water and natural resources, and information technologies. It has eight other offices throughout the United States and annual revenues of more than \$25 million.

The company counts more than 45 Mines graduates hired since 1972, with 33 alumni currently employed by RESPEC. Five Mines alumni serve on RESPEC's Board of Directors.

Learn more about RESPEC at www.respec.com and the South Dakota School of Mines & Technology at <u>www.sdsmt.edu</u>.

Wilson Family continued from page 1

Wilson is married to Jay Hone, an attorney and retired Air Force colonel. They were foster parents and have one adult adopted son, Scott Hone, and two biological children, Joshua Hone, 19, and Caitlin Hone, 16. The family is active in Boy Scouts, soccer, and music. They enjoy skiing, walking, reading, musical theater, and film. They have an overly friendly King Charles-Beagle cross named "Miss Moneypenny" and two sugar gliders (Australian marsupials) named "Scout" and

"Jem." Baloun also conveyed the Board of Regents' ues to serve as acting president until Wilson's arrival. "Duane has been a solid and steady presence on this campus," Baloun said. "He brought students, faculty, and staff together during a time of loss and heartache, while diligently pursuing the university's long-term goals and future vision. We look forward to Duane's continuing service as provost and vice president for academic affairs," he said.

special thanks to Duane Hrncir, who contin-

Stensaas family establishes the The E. R. Stensaas Chair in Mechanical Engineering



The Stensaas family has shown a strong financial commitment to education at SDSM&T for the past 35 years. This began with the original E. R. Stensaas Memorial Scholarship that was established by his family upon his death in 1986. The family then provided major funding in the creation of the E.R. Stensaas Laboratory Endowment in Mechanical Engineering along with help from over 200 past students of "Stens" from class years 1947 through 1974 during the first capital campaign in the late 1990s. The Stensaas family and several of Professor Stensaas' past students provided additional funding over the course of the recent Building the Dream capital campaign period (2005-2012) to create the E.R. Stensaas Endowed Professorship in Mechanical Engineering. Their latest gift, made possible by Gary and Jane Fick (daughter of Professor Stensaas) transforms this \$200,000 fund into the endowed E. R. Stensaas Chair in Mechanical Engineering at SDSM&T.

An endowed chair is one of the highest honors bestowed upon an academic institution and its faculty. By providing a significant supplement to aid state funding of salary and benefits, and provide operating support toward advancement of the department, the chair holder is able to focus on breakthroughs and discoveries in education and research.

The E.R. Stensaas Chair marks the third such major endowment fund in the history of the School of Mines. The first was created with a major gift from Steve and Kathy Miller for the EE Department in 1999. The second by Larry and Linda Pearson during the recently completed Building the Dream campaign to add a faculty position in the ME department.

With the addition of younger tenure track faculty to the ME department to compensate for both attrition and significant increase in student headcount, now was the perfect time to add a focused faculty member to the team, which the department was only able to do through the establishment of this endowed chair. The E.R. Stensaas chair creates an opportunity for the ME department to add the world class faculty needed to incorporate the best practices in engineering education process. The ME Industrial Advisory Board has helped in the design and watched the Center of Excellence in Advanced Manufacturing Production (CAMP) model of experiential learning develop. As a result, the department has begun to incorporate a more hands on, experiential learning process throughout the entire ME upper level elective curriculum. The days of mere "lecture, test, grade" are being replaced in many fundamental elective courses with team approaches to "simulate, design, build, and test" as a way for engineering concepts to be learned.

But are the graduates really better prepared to solve complex problems and provide leadership and innovation in the global economy? There are established ways, and opportunities to discover new ways to measure critical thinking ability and outcomes. With such testing over several years, comparisons can be made between a student's capability as an incoming freshman versus that as a graduating senior. The E. R. Stensaas Chair will provide one additional person to the faculty of the ME department to drive this initiative while teaching and leading teams of students in applied research. Concepts learned will be developed and shared with other departments on this campus initially and eventually provide new models for training engineers nationwide.

It is anticipated that the search for the new position will begin in the fall 2013 so the new person can be hired in springtime 2014 and begin approximately one year from now. The focus of the position will be the application of current best practices in STEM (Science, Technology, Engineering, Math) education at the college level. An important trend in corporate philanthropy is toward K-12 STEM education in an effort to place more diversity and a larger number of young people in the pipeline to college degrees in science and engineering. With the placement of the E. R. Stensaas Chair at SDSM&T, the founder of the department's legacy will be a refreshed and continuous focus on the educational process and creation of outstanding engineers.

Elden Russell Stensaas was born November 6, 1908, in Norway, Kansas. He grew up and graduated from high school there. He worked his way through Kansas State University, learning at a very early age the value of thrift and hard work. He was a member of Pi Kappa Alpha fraternity and graduated from KSU with a BS in Mechanical Engineering in 1938. He then became an instructor at SDSM&T.

During World War II, he worked as a civilian instructor in Army aircraft mechanic schools at Rantoul, Illinois, Wichita Falls and Amarillo, Texas. In 1946, he returned to the SDSM&T faculty where he became the first Professor and Head of the Mechanical Engineering Department. He was later of Chairman the Nuclear Engineering faculty for a time. In 1953 he took a leave of absence to work as a designer at Knolls Atomic Power Laboratory in New York, where he worked on one of the early atomic submarines. He returned to the SDSM&T campus where he stayed until his retirement to Professor Emeritus status in May,

1974. While at SDSM&T he was also made an Honorary Member of Triangle Fraternity, and was very active with the Student Chapter of the American Society of Mechanical Engineers. He always had an open door to all his students and welcomed them to his office at any

Professor Stensaas was a member of the American Society of Mechanical Engineers and the Nuclear Engineers Professional Societies. He also was a member of Trinity Lutheran Church and a past member of the Elks Lodge at Rapid

Professor Stensaas married Dorothy Aspegren June 1, 1940, at Rapid City. He and Dorothy had one son, Michael (BS ME 63), Chicago, and a daughter, Mrs. Gerhardt (Jane) Fick, Breckenridge, Minnesota. E. R. Stensaas passed away on December 16, 1986. His wife of 46 years, Dorothy, passed away on November 28, 1997.

Jane Fick is the daughter of Elden Stensaas. She received her bachelor of science degree in medical technology from the University of South Dakota at Vermillion in 1967. She has worked as a medical technologist in several hospitals and clinics in California and Minnesota. Jane is married to Gerhardt (Gary) Fick. Gary received his bachelor's and master's degrees in agronomy and plant genetics from the University of Minnesota, and his doctoral degree in genetics from the University of California. He has worked as a sunflower geneticist for the U.S. Department of Agriculture in Fargo, North Dakota, and more recently as research director and part owner of companies seed

Jane and Gary are parents of four sons, Mike, Darren, Damon and Jim. Mike is an agronomist working for the Minnesota Department of Agriculture, Darren is a pharmacist in Minnesota, Jim is an optometrist in West Virginia, and Damon is an assistant professor in the CEE Department at SDSM&T.

Breckenridge, Minnesota.

Newlin continues strong support for scholarships at SDSM&T



For more than 15 years Steve Newlin (CE 76) and his family have shown a strong commitment to education at SDSM&T. This commitment is reflected in their recent endowed gift for scholarships in the memory of Terry Newlin and a charitable remainder trust that benefits the South Dakota School of Mines and Technology through the SDSM&T Foundation.

Steve is chairman, president and chief executive officer of PolyOne Corporation, the world's premier provider of specialty polymer materials, services and solutions. Steve attended the South Dakota School of Mines & Technology, where in

1976 he earned his bachelor's degree in civil engineering. He completed both the Tuck Executive Program at Dartmouth College and the Harvard School Business Advanced Management Program.

Steve married Terry Ochsner, of Mobridge, SD in 1975 and they had two sons, Grant and Scott. Following his graduation from Mines, Steve served as a commissioned officer in the U.S. Public Health Service. In 1980, he joined Nalco Chemical Company, the world's leading water treatment and process improvement company as a sales representative and progressed through a series of management and executive positions during his 24 years. After leading the Asia Pacific and Europe regions, he returned to the U.S. to ultimately become president, chief operating officer and vice-chairman.

In 2003, Steve was brought in as president of the Industrial Sector of Ecolab, Inc., an \$11.8 billion global developer and marketer of cleaning, sanitizing and maintenance chemicals, equipment and services. He and his family moved to the Minneapolis area where his two boys completed their high school education.

Steve was recruited to PolyOne Corporation (NYSE: OSK), and the

Corporation in 2006 to become chairman, president and Chief Executive Officer of the Clevelandbased polymer. He led PolyOne in a comprehensive transformation that would change the company from a low-margin commodity pounder into a thriving specialty formulator that generates high margins through innovative customer solutions. In a remarkable turnaround known in the industry as "The PolyOne Transformation," Steve fundamentally improved the corporation through a series of strategic changes, all generated from a vision rooted in specialization and a new culture driven by expectations of excellence.

Today, PolyOne is a \$4 billion, leading global formulator of highly specialized solutions, and has grown its specialty operating income more than 25-fold under Steve's leadership.

In 2007, Steve received the Distinguished Alumni Award from the South Dakota School of Mines and Technology. In addition, The Triangle Fraternity inducted Steve in its "Men of the Century" program and also honored him into its Wall of Fame. He serves on the boards of directors of Black Hills Corporation Oshkosh (NYSE: BKH),

Greater Cleveland Partnership. He also serves on the board of governors for Firestone Country Club and is a member of the Ohio Business Roundtable.

Steve and Terry established the Aldeen and Esther Ochsner Memorial Scholarship at the SDSM&T Foundation in December 1998 in memory of Terry's parents. Following Terry's passing in February, 2010, Steve established a scholarship in memory of Terry, to assist students with financial need. Terry was a caring, wonderful woman who was eager to help South Dakota students who lacked the financial resources to succeed at the South Dakota School of Mines and Technology. Further, Steve recently established a \$1M trust with the school being the beneficiary through the SDSM&T Foundation.

"My SDSM&T experiences and education provided a strong foundation of critical thinking and leadership skills that I still utilize today," Steve said. "And it is my family's hope that the Newlin Memorial Scholarships and funds from the trust provide similar encouragement and support for students pursuing degrees at SDSM&T for many years to come."

Maptek gift honors longtime mining professor Hladysz



The South Dakota School of Mines & Technology (SDSM&T) has received a \$280,000 donation from Maptek, a leading software and services provider to the mining industry.

Maptek and SDSM&T have created the Ziggy Hladysz Maptek Endowment in honor of the recently retired Zbigniew (Ziggy) Hladysz, Ph.D., longtime professor and mentor to mining and engineering students.

The endowment, which will be managed by the SDSM&T Foundation, will be used for scholarships in the Department of Mining Engineering & Management, and to maintain the Maptek Advanced Mine Design Center. The lab, which was unveiled in 2008, serves about 200 mining, engi-

neering and geology students. It is home to 25 computers equipped with Maptek Vulcan geological modeling and mine planning software. Maptek has more than 6,000 Vulcan licenses active at mine sites across the world.

"The lab is unique as it is the only lab in the U.S. solely dedicated to Vulcan training," said Shashi Kanth, head of the School of Mines Department of Mining Engineering & Management.

"The support that Maptek gives to this program directly translates into high-quality students who graduate with knowledge of the industry in terms of the latest technology, making them highly sought after and more marketable," said Kanth.

"Maptek has had a long relationship with the university. Ziggy has truly been a pioneer in implementing the practical use of technology in the mining engineering curriculum," said Jon Larson, general manager of Maptek North America. "We believe this is a great way for us to show our support

Larson, a School of Mines alumnus, was one of Hladysz's students during his 39 year professorship at SDSM&T.

"This is an incredibly honorable way to continue Ziggy's legacy," said Kanth. "We are very grateful for such a generous contribution from Maptek, which affects the students as well as the industry as a whole."

About Maptek

Founded over 30 years ago, MaptekTM is a leading provider of innovative software, hardware and services for the mining industry. Maptek products, covering the complete mining cycle from exploration to reclamation, are used at more than 1,700 sites in over 65 countries. Maptek VulcanTM is one of the longest standing 3D mine planning and modelling packages. Maptek I-SiteTM is an integrated hardware and software system for 3D laser scanning, surveying and imaging. Maptek BlastLogicTM provides intelligent 3D drillhole validation and load design software, while Maptek EurekaTM features an interactive 3D environment for visualising and interpreting geophysical and seismic data.

Doug and Leah Beck fund multiple scholarships with a DAF



Doug and Leah Beck

Doug (EE 80) enjoyed participating in track and cross-country during his four years at SDSM&T. As a young alum, Doug started contributing to his alma mater by supporting SDSM&T track and cross-country scholarships through the Cross-Country Alumni Scholarship. Next, Doug and his wife Leah established an endowed scholarship to honor Doug's grandfather, Harold James Eade (EE 27) and the Doug and Leah Beck Endowed scholarship to support students majoring in engineering electrical SDSM&T. This was followed by another major gift to fully fund an endowment honoring Jack Hunter, the coach for cross-country and track while Doug was a

student here. Still not done, the couple is funding yet another endowment to support a scholarship for a long-distance runner in cross-country or

Doug and Leah's generosity doesn't stop with supporting SDSM&T. They have a multitude of charities they like to support and they have found it easiest to do that through a vehicle called a donor advised fund, or DAF. Donors make gifts into these accounts and claim an immediate tax deduction on their federal income taxes.

Doug and Leah really like the convenience of their DAF with Vanguard Charitable. Beck states, "We deposit a sum larger than we intend to donate at one time. It's invested and appreciates tax-free. Then, when we are ready to donate to specific charities such as the School of Mines, we make recommendations for specific amounts to those we want to support. We have used our DAF to fund our endowments with the SDSM&T Foundation and to support other charities." Because DAFs are administered by a public charity they can be created for the purpose of managing charitable donations in a tax effective, flexible way. Mike Selzer, SDSM&T Foundation President notes, "While not for everyone, the use of DAFs for couples like Doug and Leah works because of their many charitable interests. We are grateful for their generous support in whatever fashion best suits them. This is a win-win situation for both the Becks and SDSM&T."

Broughton scholarship to support local football talent

Eric Broughton (EE 97) has the established Eric Broughton Athletic Scholarship at the South Dakota School of Mines and Technology. non-endowed scholarship will be awarded to a member of the Hardrocker men's football team. Preference shall be given to recipients from the state of South Dakota with a financial hardship.

Eric grew up in rural Worthing (Canton), SD and graduated from Canton High School in 1992. While in high school he was active in football, basketball, track, baseball, 4-H, band, choir and student government as Student Body President. numerous awards



He Eric Broughton

including being named as a finalist in the Coca Cola National Scholar program and a National Guard Student Athlete.

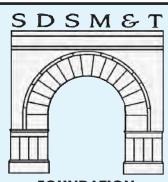
He continued his education and football career at the School of Mines where he studied electrical engineering. Eric was an active member of Delta Sigma Phi and was a member of the jazz band playing the baritone saxophone while recovering from knee surgery during his junior year. Eric was also Junior and Senior Class President and spoke at the 1997 graduation ceremony.

Eric played football for the Hardrockers for four years and was an allconference running back. His best memories of his time at South Dakota School of Mines were the friendships he developed with his teammates, fraternity brothers and classmates - and a particularly good highlight was breaking several tackles on a third and long in the fourth quarter to beat Black Hills State University.

Upon earning his bachelor's degree in 1997, Eric moved to Kingman, Arizona, to start his career in electrical engineering working for Cargill Steel (North Star Steel Arizona). Eric quickly rose through the organization in roles of shift foreman, finishing department manager and eventually led the information technology department. In the fall of 2000, Eric moved his wife Jennifer and daughter Haley to Naperville, IL to work for a worldrenowned Oracle consulting organization (TUSC) as a Consultant. Once again he exceeded the expectations of his peers and became the youngest Senior Manager in the history of the organization. He then moved on to IT Convergence as Global Solutions Manager and completed his MBA through the University of Phoenix and attended executive education coursework through Stanford University.

Eric is now President and Chief Operating Officer of Yield Technologies, Inc where he leads the organization's strategic planning, technology consulting and business development. His entrepreneurial spirit shows in the creation of the RentSentinel and RentSocial platforms. While not working at Yield Technologies he coaches his daughter's soccer teams and serves the local technology community as President of Chicago's Oracle Users Group.

Jennifer and Eric reside in Naperville, IL with their three daughters Haley, Alisa and Sophia.



FOUNDATION

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The SDSM&T Foundation is a non-profit corporation operating under the 501(c)(3) designation assigned by the Internal Revenue Service.

Mike Selzer, President Peggy Dixon, Program Administrator Julie Herman, Regional Development Jay Hrachovec, Volunteer Coordinator Ron Jeitz, Regional Development Brad Johnson, Vice President of Development Leah Mahoney, Charitable Gifts Officer Andy Myscofski, Financial Analyst/Accountant Larry Simonson, Major Gifts Officer Lana Thom, Director of Financial Services

Jim Wilson, Real Estate Property Manager The Foundation Update isused as a forum to advise alumni and friends of important events occurring on campus and within the Foundation.

Foundation Update and to the Rapid City Journal, our publisher.

Mike Selzer, Editor

I extend thanks to the individuals who have contributed news reports to the

SDSM&T honors staff and faculty with key awards

Virginia Simpson Award

The Simpson award was established by Mrs. Virginia Simpson to recognize and encourage involvement by SDSM&T faculty or staff with the Rapid City community. This involvement may be through participation in community activities, social services, and/or volunteer services, etc. Mrs. Simpson's intent was to encourage new or continued involvement. Her husband, Neil Simpson, was a general studies grad of 1939. He died in 1986, and Mrs. Simpson died in 2002. The endowment is managed by her son, Roger, and daughter, Mary Jackson.

Award Recipient Jolie McCoy, Director of Counseling ADA Services



Jolie McCoy, as a university and a community wellness advocate, has been responsible for many wellness initiatives that have benefited SDSM&T students. She has been actively involved in a new women's wellness group, the campus Wellness Fair and counseling services. Jolie promotes mental and physical wellness to the entire campus community via all possible means. Despite the unrelenting and growing demands of her role, she has remained innovative and alert to opportunities to expand the services provided by her department.

In the community, Ms. McCoy serves as a mentor for the Stevens High School Individual Senior Experience WISE program, volunteers for the Working Against Violence, Inc. program and volunteers with the Front Porch Coalition which is dedicated to helping people who have tragically lost someone to suicide. She also hosts the "Catch the Wave" transition program for disabled high school students touring colleges in May.

The Dick Kitchen Award for Outstanding Staff Person

Dick Kitchen for The Award Outstanding Staff Person was established by Gail March (Hon 1988, deceased 1993) and Bruce Johnsen (CE 59) to honor Dick Kitchen, SDSM&T Public Relations Director from 1954 through 1961. This award is to recognize non?faculty staff members at SDSM&T who have distinguished themselves by demonstrating excellence in their work and by encouraging students to complete their education at SDSM&T. No matter what difficulties a student may face, this person's presence and actions make the critical, positive difference in keeping students on the path to completing their education.



Award Recipient Kathy Crawford, Associate Registrar

Kathy Crawford's service to SDSM&T has helped every single student, faculty member, and administrator on this campus for over three decades. In addition to helping students with problems, she is proactive in helping them avoid problems. Her accurate and knowledgeable actions make a positive difference to students on the way to finishing their degree requirements. She works hard to interpret policies in the spirit in which they were intended which helps keep SDSM&T in compliance and helps us be as fair as humanly possible to the students.

Dr. Sangchul Bang, SDSM&T Professor, said, "Without Kathy's help, we might not have been able to provide adequate academic advising to our former and current students. She is an invaluable asset to our university."

Professor Toni Logar said, "I have worked with Kathy in situations where students have been in trouble, and she has gone above and beyond expectations to help them find solutions."

Jim & Connie Green Faculty Award

The Jim and Connie Green Faculty Award provides support to SDSM&T faculty advisors of any major project that is competing at a national level and that involves Mechanical Engineering students. This award recognizes a faculty member's support, time, and effort for student projects involved in CAMP (Center of Excellence for Advanced Manufacturing and Production).



Award Recipient Dan Dolan,
Professor of Mechanical Engineering and
Director of the Center of Excellence for
Advance Manufacturing and Production
(CAMP)

Bernard A. Ennenga Faculty Award

The Benard A. Ennenga Faculty Award was established by Mr. Ennenga (ChemE 49) to recognize any teaching assistant, teaching associate, instructor, assistant professor, associate professor, or full professor at SDSM&T who has demonstrated excellence in teaching and/or motivating students. Mr. Ennenga died in 1997. His son, Todd, manages the endowment.



Award Recipient Dr. Damon Fick, Assistant Professor of Civil & Environmental Engineering

Damon Fick was nominated for this award not only by the head of the Civil and Environmental Engineering Depart-ment, but also by a CEE graduate student. One of the ways that Dr. Fick has demonstrated excellence during this academic year is through his leadership in our senior design course. He revamped the entire senior capstone design course to enhance the student experience and quality of the educational experience. He is dedicated to supporting student success and making improvements to better prepare our seniors for their career paths.

A key initiative at the School of Mines is to increase the number of under-represented students on campus. Dr. Fick's collaborative efforts with Oglala Lakota College on the Pine Ridge Indian Reservation are an important component of this initiative.

Dr. Fick leads his students to understand engineering problems from both theoretical and practical points of view. Dr. Fick is a conscientious advisor and student advocate and has provided numerous opportunities for students to obtain undergraduate research experience.

Presidential Award for Outstanding Professor



Kathy Antonen, Professor of English

One of our most gifted teachers, Dr. Antonen, has been making a difference in students' lives since she joined the faculty in 1987. She enjoys consistently strong student evaluations and receives especially high marks for her personal interest in students and their learning. Firm but fair, she fondly sees her job in English 101 as one of "grooming" students to become responsible citizens of the university. As an early advocate of mentoring, Kathy has served as the freshman advisor to incoming IS majors since 2007.

Dr. Antonen's engagement with her academic, professional, and local communities is deep and wide-ranging. She is frequently tapped for service on committees, searches and task forces. She is a long-standing member of the Early Alert, commencement, and honors convocation committees. She is particularly well-known for her commitment to students, being an advisor for many years to Alpha Delta Pi sorority, United Campus Ministry, Phi Eta Sigma, and The Aurum, for which she received the Outstanding Student Organization Advisor Award. Dr. Antonen is also a member of the South Dakota Humanities Council where she has facilitated 120 book discussions in 11 different west river communities over the past two decades.

To sum it up, Kathy's contributions are multiple, significant, and sustained. The high caliber of her university citizenship, her 26-year record of professional achievement, and the excellence of her character speak to her lasting impact at SDSM&T.

SDSM&T Foundation Around and About



January 2, 2013 – Azusa Pacific, CA
Front: Kevin Berg (GeolE 84), Tammy Blackburn, Sheri
Soldatke (CE 95), Marlene Oliva, and Norma Nelson
Back: Mike Selzer (EE 74), John Sibert (Chem 62), Andy
Farke (Geol 95), Don Bachand (CE 77), Dean Oliva (GenE
56), and Bob Nelson (CE 61)



April 7, 2013 – Woodbury, MN
Front: Laurie (ChE 75) and Loralie Chamberlin, Dave
Wagner (ChE 69), and Olive and Don (ChE 49) Schoessler
Back: Scott (EE 86) and Rose (CSc 86) Pekarek, Mike (ChE
82) and Sandra Sherrill, Bill Betten (EE/Phys 77), Dennis
Harry (ChE 70), and Larry Mohr (Phys 66)



March 8, 2013 – Moore, OK Jim (ME 01) and Katie Morgan, Mark (ME 12) and Megan [Mallett] (EE 12) Cullison, Dan Naugle (EE 81), and Peggy and Roy (EE 53) Strom



April 10, 2013 – Austin, MN Arlen Schamber (CE 74), Gary Bickler (ME 73), Jim Frank (CE 72), and Lisa and Mike (IE 96) Haase



March 20, 2013 – Olathe, KS (Garmin)
Justin Schmidt (CompE 09), Jason Howe (CompE/ME 05),
Doug Colbert (ME 12), Zac Hester (CompE 07), Justin
Wenner (ME 06), Nathan Bishop (CSc 07), Jeanne Mello (EE 83), and Perry Dinger (ME 03)



January 5, 2013 – Phoenix, AZ (Hardrocker basketball game against Arizona Christian) Mark Lux (MinE 80), Wally Sieck (ME 70), Bill Goodman (CE 70), and Lee Zacharias (ME 73)



February 16, 2013 – Cedar Hill, TX [home of Don (ChE 68) and Sandi Holzwarth]

Jerry (GeolE 66) and Dianne Bigelow, Bernie (ME 67) and Ginny Wilcox, Tom (EE 69) and

Bonnie Lewis, John Dobrick (EE 78), Carolyn and Tom (GeolE 66) Marty, Jesse Ortega (EE

81), Randy (GeolE 71) and Jackie Nelson, Al Dougal (CE 50), Peggy and Dennis (EE 74)

Case, Scott Brekenfeld (MetE 63), Arne Hatlestad (EE 73), SK (MinE 78) and Angshu

Choudhury, and Sandi and Don (ChE 68) Holzwarth



March 15, 2013 – Bakersfield, CA (Bakersfield Jam basketball game)
Front: Isabela and Carolina Iguaz, and Marek, Kate, and Jo Fredrickson Back: Jose (ME 97)
and Karina Iguaz, Stan Ellis (Math 74), John Hoven (ME 67), Larry Simonson (EE 69), Ed
Ogren (GeolE 80), Simin and Gaurdie (MetE 80) Banister, Deb and Bob (ME 73)
Waxdahl, and Brandon Fredrickson (MinE 08)

Wellness and Recreation Center takes shape



Exterior of the building with new construction in yellow and remodeled area in orange.

nize the importance of personal fitness and have taken the initiative to pave the way for expanding the intramural and fitness opportunities for students at Mines. In the spring of 2012, Mines students voted to fund a Wellness Center expansion project by increase their general activity fee by \$10 per credit hour. Impassioned to see their dream become a reality, the students championed support for the project which has been approved by the university and the Board of Regents. Architects have been hired, designs have been drawn, and details are being fine-tuned. Construction is expected to begin in the spring of 2014 and the project is scheduled to be completed by the summer of 2015.

An addition will be made to the King Center and will provide more than 34,000 square feet in new or remodeled wellness,

Students at the School of Mines recog- recreational, and intramural space. Among the added benefits will be two new basketball courts, a new group fitness room, a bouldering wall, and expanded cardio, weight, and locker rooms. Student Association President, Spencer Ferguson, stated, "An upward trend in student population as well as an increase in student activity, caused by a stronger emphasis from society on personal fitness, has made clear the need for a larger recreation facility".

> The new basketball courts will also be used for varsity basketball, volleyball, and track and field practice to support Hardrocker athletics as the university transitions to NCAA Division II. Wellness and Recreation expansion project will serve as an important recruiting tool.

The student fee increase (\$10 per credit hour) will bond \$6.7 million of the \$8.9

million project. The SDSM&T and the Foundation are collaborating to secure funding for the remaining \$2.2 million needed to complete the facility from a wide range of possible donors. Part of the fundraising strategy will be to honor former President Harvey Fraser (1966-75). During his presidency, four buildings (Devereaux Library, Engineering/Physics, Palmerton Hall, and the New Gym - now called the King Center) were constructed and many people have expressed a desire to have a naming opportunity for Dr. Fraser. The details are being worked out and progressing nicely. Harvey Fraser lives in Louisville, CO, and will celebrate his 97th birthday in August 2013. His grandson, Erik Yeash (IS 12), is currently a graduate student at Mines.



Updated upper level shows the new fitness center and basketball courts

Please consider a gift to the Wellness and Recreation Center

The growth of the school to over 3500 students by 2020 requires all of us, the alumni and friends of the school, to partner with the students to provide this outstanding facility for their benefit.

Give Now: <u>foundation.sdsmt.edu</u> or call us at 800.211.7591

Freshman scholarships impact the school and the community



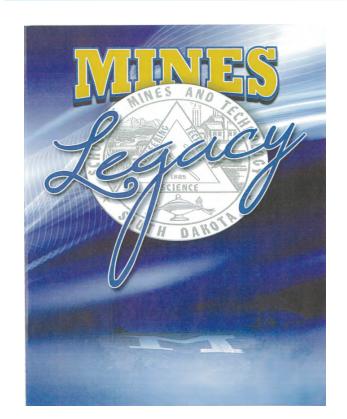
The strategic plan to have enrollment of 3500 students by 2020 can be reached with enrollment growth of approximately 5%/year. This is attainable because of the reputation of the university and the work we are doing to inform students and parents around the country about the School of Mines. These are highly qualified students who will have options about where to go to college. The challenge to achieving the objectives of our strategic enrollment plan is our continued ability to attract the best and brightest student to the institution through competitive scholarship offers. Through the generous donations of key supporters of the institution, we had an additional \$200,000 available to offer in scholarships for the 2012 class. These dollars allowed us to make scholarship offers to students who had ACT scores of 27/36 and grade point averages of 3.5/4.0.

The impact of the new money is clearly demonstrated by the fact that overall enrollment in fall 2012 was up nearly 5%. Enrollment of first time freshmen and transfer students was up nearly 10% for the 2012 class. Most growth comes from new students but it remains important to note from the chart to the right that scholarship recipients tend to stay in school until they graduate.

Each graduate has spent upward to \$80,000 while getting an education at Mines. This economic impact not only provides resources for the school but is also spent in the community during the academic year – normally "low season" in the Rapid City area. Please consider a gift to freshmen scholarships in the coming year.

2006-2011	Overall	With Scholarship	Without Scholarship
Retention*	78 %	87%	64%
Graduation Rate	55%	74%	21%

^{*}from 1st year to 2nd year



The Mines Legacy Fund – Is the university's annual fund, which allows us to provide significant support towards scholarships, student organizations, faculty and infrastructure.

Please consider a gift to the Mines Legacy Fund, thereby enabling the university to recruite, retain and educate some of the brightest students.

President Circle Membership starts at \$1,000 and includes: invitations to special events, five-year members are

recognized on commemorative plaque outside university President's office, other recognitions based on membership level. Younger alumni can become members with a discounted donation (\$100 to \$900) annually based on the number of years (1-9) since graduation.

Industry Demand for Mines graduates is reflected by the 98% placement rate and high salaries. Your continued support we will increase our enrollment to support the industry demand of our students and graduates.

