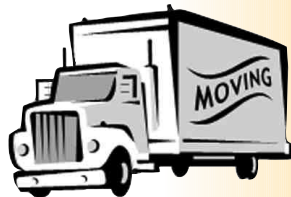


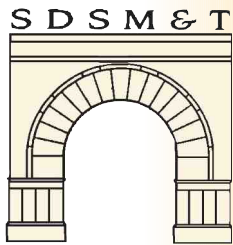
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 **Foundation Annual Report**

 **Building the Dream Update**



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Foster Family Establishes Endowment for Vertebrate Paleontology



David Foster, Charlene and Leroy Foster, and April and Matt Smart

Leroy Foster (GeolE 71) has never lost the fascination for geology that captivated him as a young boy collecting rocks along the Cheyenne River near where he grew up. Through the years, he has shared his passion for geology and his love of the School of Mines with his wife, Charlene, his son, David (Geol 06), and his daughter and son-in-law, April and Matt Smart.

“Our family has enjoyed visiting the museum since our children were little,” stated Leroy Foster.

And now, the Fosters long-time advocacy of the paleontology program and Museum of Geology has translated into their generous pledge of support, the single largest in the history of the School of Mines, to provide funding for vertebrate paleontology within the new James E. Martin Paleontology Research Laboratory.

“We are truly excited to know that we’ll be helping current and future generations experience the wonderful collections that David and I have experienced,” added Leroy.

Leroy and Charlene’s generous donation was made on behalf of their immediate family, but they are quick to proudly spotlight the family’s other ties with the university which include Leroy and Charlene’s niece and nephew, Linda Foster (GeolE 03) and Forrest Foster (ME 02). Charlene said

she and her husband have been on board with the project to construct the world-class laboratory from the very beginning because of their son and because of the “tremendous work of Jim Martin,” a former School of Mines professor of geology for whom the facility was recently renamed (see side box).

“This wonderful world-class collection will now have a world-class building to match,” Leroy added.

The new facility accommodates and complements fieldwork and provides laboratories to serve as the basis for the university’s educational programs. Unlike the past home to the museum collections, the new facility features large public viewing windows into the laboratories and educational displays to complement the displays currently housed in the Museum of Geology in the O’Harra Building.

During the laboratory’s ribbon cutting ceremony in September, Dr. Robert A. Wharton, president of the School of Mines, thanked the Fosters for their vision and leadership.

“The Foster family’s esteem for the faculty, researchers and students here at Mines is evident in such a grand commitment,” Wharton said.

Additional funding for the teaching and research facility was provided by the State Higher Education Science Laboratory Bond Bill and generous

donations from the Frank M. and Gertrude R. Doyle Foundation and other donors.

Even with the Fosters’ generous pledge, there is still a vast need for additional funding to support the new building and programs. The Fosters have issued a challenge to other alumni and friends of the university to match or add to their pledge.

Paleontology Research Laboratory Named for Martin

On June 3, 2011, the School of Mines’ new paleontology laboratory was officially renamed the James E. Martin Paleontology Research Laboratory. Dr. Martin, who retired in 2010 as professor of geology and executive curator of the Museum of Geology at the School of Mines, said he is quite honored. “I spent a lot of time with the university, and we’ve taken the paleontology program from a very small regional program to one of the largest in the country.”

Martin received his bachelor’s degree in geology and his master’s degree in paleontology from the School of Mines in 1971 and 1972, respectively. After completing a Ph.D. in geology from the University of Washington in 1979, he returned to the School of Mines as an assistant professor of geology and director of the field station.

Martin’s work has brought national and international recognition to the School of Mines and the state of South Dakota. Some of his many achievements include being named a Distinguished Alumnus at the School of Mines in 2004 and induction into the South Dakota Hall of Fame in 2008.

At the June 3 renaming ceremony, School of Mines President Robert A. Wharton, Ph.D. said, “The naming of this facility adds to the heart and spirit of the human quest for knowledge that Paleontology Research Laboratory serves, and no one embodies this heart and spirit more than Dr. James E. Martin.”

Frank Family International Fund



Mr. Richard and Dr. Irma Frank

When Richard (ME 63) and Dr. Irma Frank began to think about endowing a scholarship program at the School of Mines, they had several goals in mind. The Franks wanted to provide international cultural and professional experiences to School of Mines students, aid in recruitment of students, and enable these same students to have an impact on the well-being of the citizens and communities of the locations where they visit and work – particularly in the less developed countries.

The Mr. Richard and Dr. Irma Frank Family International Fund (Frank Family International Fund), which has now been established at the School of Mines, has been fashioned to target each of these goals beginning with its very first awards which are

ing the fall 2011 semester.

“The Frank Family International Fund will not only emphasize the value of and create opportunities for international educational experience for School of Mines students, but the Fund will also provide benefits to the host countries,” stated Dr. Irma Frank.

The Frank family is particularly interested in projects in countries in Latin America, Asia, and Central and Eastern Europe or other developing countries. The Frank Family International Fund allows for international experiences categorized into three groups based on the duration of the visit. Introductory experiences are of the shortest duration and range from one to two weeks; design experiences lasting from two to six weeks would generally involve travel over the summer break for international design or construction activities for projects with humanitarian purposes; educational immersions would involve studying abroad for a semester.

“International travel, work and living has greatly enhanced our family lives,” added Richard Frank. “We, in turn, believe it is critical for future engineers and scientists enrolled at the School of Mines to have the opportunity to gain a global experience and perspective which will make them better individuals and more creative engineers and scientists.”

“International experiences relevant to engineering and science are increasingly available and encouraged at the School of Mines. Just this past year, we have had students travel to Australia, Canada, Chile, New Zealand, Russia, Spain, Sudan, and Turkey. We have also had students travel to Mongolia,

Germany, Denmark, Norway, Ireland, and Suriname in the past,” said Suzi Aadland, director of the Ivanhoe International Center. “Programs like the Frank Family International Fund make traveling, working, and living abroad a viable option to many students who otherwise may not have considered it due to cost.”

Richard Frank earned a bachelor’s degree in mechanical engineering from the School of Mines in 1963. He later earned a master’s degree from Sloan School of Management at MIT and subsequently served two years in Colombia as an MIT Fellow.

After a 26-year career in the World Bank Group, he was named CEO of Darby Overseas Investments of the Franklin Templeton Group in 1997, where he continues to lead this international firm as President and CEO.

Richard has also recently been appointed to serve as a volunteer for the School of Mines Foundation’s Board of Trustees Investment Committee.

Dr. Irma Frank is a graduate of the Javeriana University Dental School in Bogota, Colombia, S.A. She received pediatric dentistry training at Harvard School of Dental Medicine in Boston, Massachusetts, and training in cleft palate at Tufts University.

Dr. Frank is the Senior Associate Dean for International Programs at Georgetown University Medical School. She chairs the International Programs Committee which oversees all medical school international programs.

The Frank children, Pilar, Rick, and Michael, were raised in a bilingual, bicultural family and have lived and worked abroad.

Building the Dream Campaign Advances after Record Year

The *Building the Dream* campaign, which began silently on July 1, 2004, is drawing ever nearer to its \$50 million goal. After a record setting \$10.5 million in contributions last fiscal year, the campaign has officially garnered over \$43 million, and over 1,600 individuals, groups, or corporations have been recognized as national leaders in the *Building the Dream* campaign by committing \$1,000 or more during the campaign period.

Funds raised toward the \$50 million goal will be targeted toward four areas of support: \$20 million for scholarships, \$10 million for faculty support, \$15 million for the student experience, and \$5 million for capital improvements.

In order to meet the campaign goal of \$50 million, the School of Mines must raise nearly \$8 million prior to June 30, 2012, the end of the fiscal year.

“To successfully reach our goal, we are counting on the continued support from all of our alumni and friends,” said Brad Johnson, vice president for development, SDSM&T Foundation.

“The common misconception is that tuition, fees, and state appropriations cover the costs of operating this university,” added Johnson. “The fact is that many of the experiences that students, faculty, and administrators have in the course of an academic year are only possible through the generosity of our alumni.”

With a minimum \$1,000 commitment over the next five years, an individual or entity can become a leader in the *Building the Dream* campaign. More information can be obtained by calling the SDSM&T Foundation at (605) 394-2436 or (800) 211-7591 or by visiting our website at <http://foundation.sdsmt.edu>

Miniature Grubby Statues for Sale

In the last edition of the *Foundation Update*, we reported on a generous contribution from Jim (ME 73) and Connie Green that funded a new, six-foot bronze Grubby sculpture on campus. Dedicated on May 6, Grubby sits amidst the Grubby Green Plaza and will host gatherings of groups who share in the “miner” spirit.

Today, Grubby is recognized as the official mascot of the School of Mines and represents the university’s historical connection to the mining industry and the need for “miners” to be dedicated, hardworking, and tenaciously optimistic individuals. The new plaza and Grubby sculpture have already been enjoyed by thousands of students, friends, and visitors to campus.

If you are one of Grubby’s many admirers, or if you have never seen

Grubby but are interested in supporting the university, high-end miniature bronze replicas of Grubby are now available for sale. The replicas are formed of solid bronze and are made using the cast on which the life-sized Grubby was based. Each Grubby is individually signed and numbered by Black Hills Bronze artist-in-residence, Joe Kittel. Although numbers one through five have already been purchased, numbers six through ten are currently available at the Foundation for \$1,500 each.

These miniature bronze Grubbys will show your school spirit or make the perfect gift for your favorite School of Mines alum or supporter.

If you are interested, contact the SDSM&T Foundation at foundation@sdsmt.edu

Local Officer Injured in Line of Duty Is School of Mines Alum



Officer Tim Doyle
(courtesy photo)

August 2, 2011, is a day that Rapid City and the School of Mines community will not soon forget. A horrific shooting of three police officers occurred during what investigators have called a “routine stop.” Officer James McCandless and Officer Nick Armstrong died from their injuries; they are the first officers to be shot and killed in the line of duty in Rapid City since 1916. Officer Tim Doyle (ChemE 94) was also injured, but he miraculously survived a gunshot to the temple and an ensuing

bullet that traveled along his jaw and lodged in his chest. He left the hospital a week after the shooting, and he was back on the job two weeks after leaving the hospital.

Tim Doyle is the son of Mike (ME 65) and Shirley Doyle. As a student at the School of Mines, he was a member of Delta Sigma Phi fraternity. He worked as a chemical engineer in Minnesota before changing careers and moving to Rapid City five years ago. He served as a liaison officer for Southwest Middle School for the past few years and is currently serving in a liaison position at Central High School. Doyle and his wife, Charity, a recently elected alderwoman for the City Council of Rapid City, have two children.

The Rapid City Police Department held a public medal presentation at Central High School for Doyle

on September 14, 2011. Rapid City Police Chief Steve Allender presented Doyle with the Distinguished Service Cross, which is given to officers who distinguish themselves by demonstrating exceptional bravery despite imminent risk of bodily injury or death. Doyle also received the Purple Heart medal for sustaining a serious physical injury in the line of duty.

"We have faced tragedy together, we have grieved together, and now it's time to celebrate together," Allender said in a press release. "It's the best ending we have to this terrible story, and we want to share it with the public."

"We are all working to heal and move forward," Allender said. "This ceremony is an opportunity to come together as a community and show our appreciation for an outstanding officer."

Evers Create Scholarship Endowment

Tony (ME 80) and Audrey Evers created the Tony & Audrey Evers Scholarship Endowment to show Tony's appreciation for the education and experiences he received while attending SDSM&T and to provide encouragement and financial assistance to students. This endowed scholarship will be awarded to a sophomore, junior, or senior who has graduated from a South Dakota high school and who lives in the dorms. First preference will be given to a student studying mechanical engineering and selection may be based on financial need if more than one student meets the criteria.

Tony Evers grew up in eastern South Dakota with three brothers and one sister in a single-parent home. Although this situation brought many challenges, his mother encouraged him to pursue his goals in higher education despite their need for financial assistance.

Evers was a student athlete throughout his schooling, and he enjoyed participating in different sports including football, basketball, and baseball. Tony also enjoyed math and science courses and excelled in them during his high school education.

Tony’s penchant for math and science guided him to seek an engineering degree, and his love of sports pointed him toward participating in college athletics.

After graduating from Canton High School in 1975, he headed to Rapid City to attend the School of Mines. Although he did not make the cut for the basketball team during his first year of tryouts, the next year proved to be successful, and he remained on the team for the following three years. While at the School of Mines, he pursued a bachelor’s degree in mechanical engineering. He also participated in the ROTC program and received his Second Lieutenant Commission in the U.S. Army Corps of Engineers in May 1979.

After graduating in May 1980, he began his career with Phillips Petroleum Company in Borger, Texas. His 30 plus years of employment with this company, now known as ConocoPhillips, have offered many opportunities and experiences including living overseas. While working at the Houston Chemical Complex (Texas), he earned a master of business administration from the University of Houston-Clear



Audrey and Tony Evers

Lake in 1995.

Audrey, his wife, was an educator for almost 30 years at the middle school, high school, and college levels. Her support and encouragement has helped establish this scholarship. Both Tony and Audrey enjoy their global travelling, golfing, and photography, and on occasion, when Tony is able to find a fishing hole, he drops in a line.

Opps Establish Scholarship to Support Basketball



Roger and Betty Opp

McLaughlin and Roger on a farm near Long Lake. Their “Germans from Russia” ancestors came to America to homestead on the prairies of North and South Dakota.

Betty and Roger met while attending Northern State Teachers College in Aberdeen, and they married in June 1962. They have three children: Susan, who is president of L-3 Communications West in Salt Lake City, Utah; Stuart, who is a partner at Deloitte and Touche in London, England; and Stacey, who is an environmental engineer at MWH Americas in Salt Lake City.

Roger pursued graduate studies at Kansas University from June 1962 until August 1963, after which he attended the South Dakota School of Mines and earned a master’s degree in math in June of 1965. After teaching one year at the University of Wisconsin Center System in Marinette, Roger took his last job as assistant professor of mathematics at the School of Mines in September 1967.

Roger was twice honored as Professor of the Year. He was a fixture at the scorer’s bench for basketball from 1969 until his retirement, first as the official scorer and later as the clock operator. He was an officer of the South Dakota Intercollegiate Conference (SDIC) from early 1970 until it was disbanded in 1999, and he is also a member of the SDIC Hall of Fame. He retired in August 2003 as professor of mathematics and computer science.

Roger (MS Math 65) and Betty Opp recently established the Roger and Betty Opp Athletic Scholarship fund. This non-endowed scholarship will support a member of the men’s or women’s varsity basketball teams at the School of Mines.

Roger Opp and Betty Brockel both grew up in rural South Dakota, Betty on a farm near

Scholarship Established in Memory of Dugdale



Lawrence and Arlene Dugdale with their children

The Lawrence Dugdale Memorial Scholarship Endowment fund was established in memory of Lawrence L. Dugdale (GenE 47) by his wife, Arlene Dugdale; his children, Frederic (CE 75), Brian (CE 76), Steven (ME 82), Cheryl (ME 83), and Laurie; and

many other family and friends. This endowed scholarship will be alternately awarded to upperclassmen majoring in civil or mechanical engineering at the School of Mines.

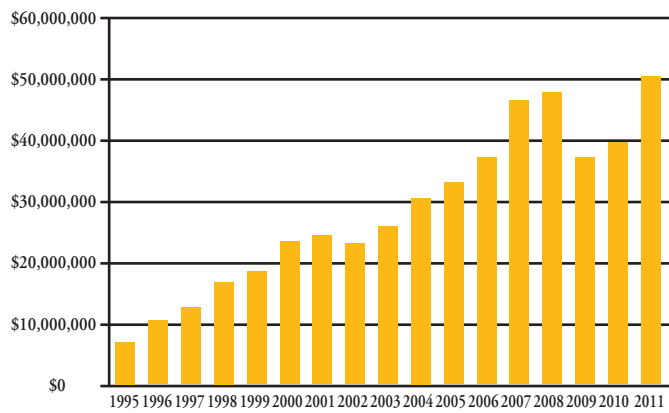
Following graduation from the School of Mines, Lawrence was employed at Johnson Controls in Milwaukee, Wisconsin. In May 1951 he was recalled to the Naval Civil Engineering Corps. In 1958, he received his civil engineering degree from Rensselaer Polytechnic Institute.

He received his discharge from the Navy in June 1959 and joined the CIA. The family moved to Okinawa in January 1964, and Lawrence served as Far East Engineer. He also spent nine months in Vietnam. In June 1967 he was transferred to Bangkok, Thailand. In December of 1969, he was assigned to Washington, D.C., and he traveled to the Mid-East, Africa, and Europe. He retired from the CIA in June 1973. The family then moved to Minnesota where he joined the Minnesota Pollution Control Agency where he worked until March 1985 when he retired.

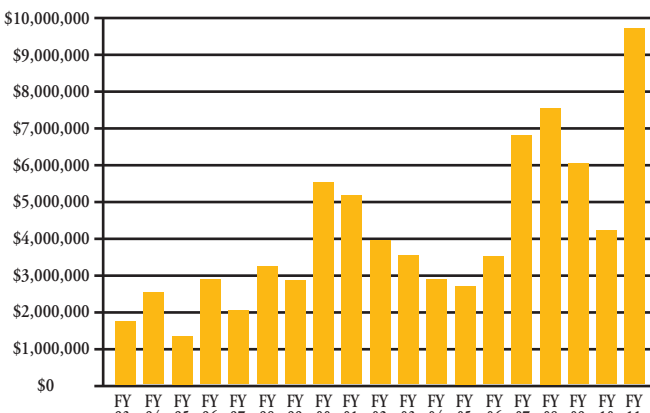
Lawrence Dugdale passed away on November 12, 2010, in Edina, Minnesota, at the age of 88. He is survived by his wife of 62 years, Arlene, five children, and ten grandchildren.

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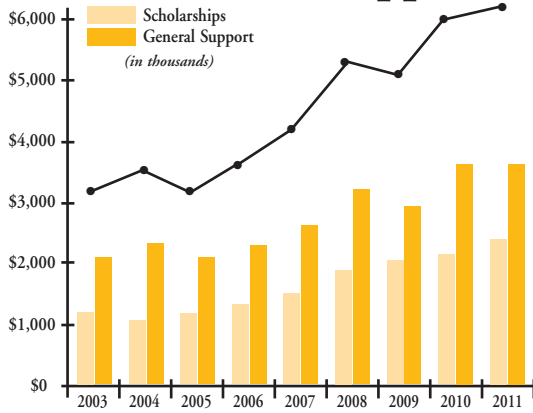
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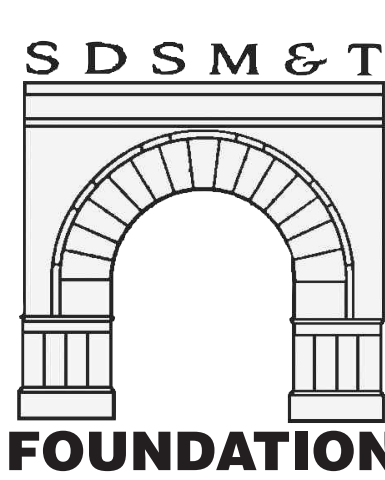
We also recognize those members of this Society who wish to remain anonymous.

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Honor Roll of Contributors

The following Honor Roll of Contributors recognizes those individuals and organizations making annual gifts to the SDSM&T Foundation from July 1, 2010 – June 30, 2011. In the listing of Alumni Giving by Class, we list only the class member's name but recognize their spouse/significant other for their part in making these contributions. We also recognize those who contribute but have requested to remain anonymous. The Foundation thanks everyone who gave to the School of Mines during this past fiscal year.

ALUMNI GIVING BY CLASS

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Moonrockers Receive Honorable Mention at NASA Competition



Team members with the vehicle

The SDSM&T Moonrockers received an honorable mention at the 2nd Annual NASA Lunabotics Mining competition held at the Kennedy Space Center in Titusville, Florida, earlier this summer.

The team was led by Luke Zweifel (ME 11) who

selected this for his senior capstone design project along with fellow classmates Tanner Swanson (ME 11) and Josh Stuchl (ME 11). Other team members included Luke Schaefer (CEng junior), Zach Hewitt (EE junior), Jon Lu (CSc 11), Ryan Housh (CSc 11), Carly Sandin (ME freshman), John Ziadat (ME freshman), and Erica Howie (ME freshman). The team received support from Mike Collins, a Western Dakota Tech graduate, who assisted the team again in welding the aluminum frame and helped them at the competition.

“Luke did an exceptional job of leading the team this year, and it would not have been possible without the coordinated effort of all disciplines involved,” stated Jason Ash, instructor, Mechanical Engineering, and co-advisor for the team.

The objective of the competition is to design a telerobotic (remotely controlled) vehicle capable of traversing an obstacle course of boulders and craters, collecting regolith simulatn from a specific mining area, returning through the obstacle course, and delivering the regolith to a 1-meter-high bin all within a 15-minute time period. After improving on last year’s design, the Moonrockers delivered 34 kg of

regolith which was a more than tenfold increase from last year and resulted in an eleventh place finish for the amount delivered.

“This is a very complex systems engineering project and being among the 14 teams to deliver regolith is a great accomplishment and earned everyone on the list an honorable mention,” added Ash. “This is a great opportunity for students to pursue their interest in space-related projects and careers, especially with the competition taking place at the Kennedy Space Center.”

The Moonrockers team would like to thank those that provided funding including the NASA Foundation, the NASA South Dakota Space Grant Consortium, SpaceX, and Dr. Duane Hrcir, provost and vice president, Academic Affairs. The team would also like to thank Craig Jacobson (EE 82) and Scott Vangen (EE 82) who both work at NASA and took time to meet with the team.

The Moonrockers advisors are Jason Ash, Dr. Michael Batchelder (professor, Electrical and Computer Engineering), and Dr. Jeffrey McGough (associate professor, Math and Computer Science).

Brunner & Lay, Inc. Scholarship Benefits Mining Engineering Students

The Fred J. Brunner Foundation recently established the Brunner & Lay, Inc. Scholarship fund at the South Dakota School of Mines & Technology in acknowledgement of the School of Mines’ standing as one of the few remaining universities that specializes in mining engineering and one that graduates quality engineers. Brunner & Lay, Inc. recognizes that to ensure the continued development of mining engineers, the mining industry must encourage and support students through scholarship and internship programs and employment opportunities after graduation. The Brunner & Lay, Inc. Scholarship will be awarded to junior or senior mining engineering students who have at least a 3.0 grade point average.

In 2007, Brunner & Lay, Inc. celebrated one hundred and twenty five years of continuous operations under the ownership and control of the founding family. The original products manufactured by this enterprise were those used in the sculpturing of stone, production of monuments, building stones, and 'objects d art'.

From a very inauspicious beginning in a small

blacksmith shop originally started in 1882 by Edward Brunner and Severin Lay, Brunner & Lay, Inc. and its affiliated companies have become recognized as the quality leaders, as well as the world's largest manufacturer of paving breaker tools. Today, using the latest state-of-the-art equipment in its facilities throughout the world, Brunner & Lay, Inc.'s entire output is devoted to the manufacture of pneumatic and hydraulic tool accessories for the construction, mining, and demolition industries.

The worldwide operations encompass manufacturing plants and warehouses on three different continents. These include seven facilities in the United States, three in Canada, three in Great Britain, one in Germany, and two in Australia, including the latest, an opening in 2004 of a warehouse in Kalgoorlie. The corporation is currently overseen by F. Michael Brunner, President, the fourth generation of the Brunner Family to oversee operations.

Brunner & Lay products are divided into three major categories: tools used for the demolition or

cutting of concrete and stone, drill steels and carbide tipped bits which are used to drill blast holes in quarries, mines, and construction projects, and small chipping and electric hammer tools which are used by the general construction trade.

It is with great pride that the Brunner & Lay organization can point to the many wonderful highways, dams, airfields, mines & quarries, and national monuments it has shaped. These include, but are not limited to, Mt. Rushmore, Hoover Dam, the Chunnel connecting England and France, the Eisenhower Tunnel in Colorado, and Olympic venues worldwide.

These accomplishments could not have been achieved without the extended efforts of long time dedicated employees and the many fine distributors who have provided loyal support over these years. Brunner & Lay extends its very sincere thanks to these employees and distributors.

Brunner & Lay is confident that its products will contribute to worldwide health, growth, and prosperity far into the future.

Trail of Governors Created in Pierre

The Trail of Governors Foundation, established last year, is a non-profit organization whose mission is to commemorate past governors of South Dakota. To this end, the foundation has commissioned local artists to design life-sized bronze statues of the state’s past governors which will be erected over the next several years and which will create a physical trail that will connect the state’s Capitol grounds and downtown Pierre. Visitors will be able walk along this trail to learn more about each of the state’s previous 30 governors as well as more about the history of South Dakota.

The Trail of Governors Foundation is relying entirely upon private donations and corporate underwriters to fulfill its vision. Leroy (GeolE 71) and Charlene Foster and Dakota Prairie Bank are providing interest-free loans to underwrite a portion of this project. The South Dakota Community Foundation is also a project partner and all donations are tax-deductible.

For more information and to learn how to sponsor a statue, visit www.trailofgovernors.com or follow the group’s progress on Facebook by liking Trail of Governors Foundation.

Army ROTC Cadets Train to Lead



Benjamin Koshiol supervising U.S. Corps of Engineer Work in Florida

Cadets from SDSM&T Army ROTC were busy this summer participating in numerous training opportunities. Benjamin Koshiol (mechanical engineering senior) participated in the Army Engineering Internship Program with the U.S. Army Corps of Engineers in Picayune Stand, south of Naples, Florida. He provided quality assurance, project management, and interaction with multiple agencies in the hydrologic restoration of wetlands while improving local water quality through the use of pump stations and spreader channels.

Thomas Everett (geological engineering senior) trained at the United States Military Academy at West Point during their annual Cadet Field Training. His four weeks of training provided him the opportunity to conduct tactical training with West Point Cadets, as well as 70 ROTC and 30 international Cadets. He had the opportunity to conduct live fire training on multiple weapons systems as well as improve his leadership skills through multiple training opportunities.

Additionally, three ROTC Cadets completed the Leadership Development and Assessment Course at Ft. Lewis, Washington, three completed Airborne School at Ft. Benning, Georgia, and two completed Air Assault School at Camp Rilea, Oregon. This training continues to build the foundation for these future officers in the U.S. Army.



Thomas Everett (center) conducts a live fire rehearsal at the United States Military Academy

Foundation Launches GiftLegacy eNewsletter

Earlier this spring, the SDSM&T Foundation launched its GiftLegacy eNewsletter.

This complimentary newsletter, which is sent weekly via email to alumni and friends of the School of Mines, shares the latest news from Washington, Savvy Living, Personal Planning, gift stories, finance news, and timely articles along with a brief bit of news from campus.

If you are not currently receiving the GiftLegacy eNewsletter but would like to, please forward your email address to Leah.Mahoney@sdsmt.edu

We hope that you enjoy this newsletter and find that it helps keep you up-to-date on campus activities and provides you with valuable information for your personal lives.

Daiss Returns to the Black Hills



John Daiss

Josh Daiss (CE 97) has made his career at Recreational Adventures Co., the largest franchisee of KOA campgrounds. After growing up in Hill City, Josh attended the School of Mines and worked for the Mt. Rushmore KOA/Palmer Gulch Lodge during the summer time.

After graduation he started his career at the Harpers Ferry, West Virginia, KOA as the assistant manager, and then moved on to manage the Branson, Missouri, KOA campground. He is now the general manager of the Mt. Rushmore KOA/Palmer Gulch Lodge and also Regional Authority for RAC, which own 12 KOAs nationwide.

With a population of approximately 2,500 people per day and about 100 employees during the summertime, Palmer Gulch is one of the larger cities in the Black Hills. It has its own water system from several wells, a zero-discharge sanitary sewer system, daily garbage collection, and miles of roads. Add to that the fact that the population changes every few days, and you have a perfect job for a civil engineer. Josh said the major challenge right now is cell phone service and Wi-Fi.

Wiesner Wins Award at International Conference



Brady Wiesner

School of Mines graduate Brady Wiesner (CE 09/ MS CE 10) received the Outstanding Poster Award at the international conference Concrete Engineering for Excellence and Efficiency, which was hosted by the Czech Concrete Society in June in Prague, Czech Republic.

Wiesner’s poster, entitled “A New Method for the Direct Measurement of Tensile Strength of Concrete,” presented the findings of his master's research.

Completed under the guidance and assistance of his thesis advisor Dr. M.R. Hansen (professor, civil and environmental engineering), Wiesner’s research provides the foundation for a new and improved method to measure tensile strength, one of the most fundamental properties of the most widely used building material in the world.

The procedure developed by Wiesner and Hansen meets a growing demand in Europe for accurate measurement of the tensile strength of concrete. In addition to continuing research in this area, Wiesner began full-time employment at the Puget Sound Naval Shipyard in Bremerton, Washington, in February 2010 as a nuclear facilities design and maintenance engineer.

Interactive Alumni Website

For many years, the SDSM&T Foundation has allowed alumni and friends of the university to make contributions on-line, but a new website has made this function even easier.

Alumni and other friends of the Foundation can login to the new NetCommunity Grow website and access their giving history, see a list of current events, read the *Foundation Update* on-line, make changes to their address, and view other information that was not available before. If it is tax time, and you have misplaced receipts for gifts you’ve made to the Foundation throughout the year, you can simply log on and have instant, real-time access to your giving history.

The best part is that the SDSM&T Foundation’s site is in conjunction with the SDSM&T Alumni Association site where you can view the alumni directory and keep in contact with the Alumni Association, so you only need to remember one username and password to keep in touch with both organizations.

If you haven’t logged in yet, try it today and check out both the Foundation and Alumni Association sites at <http://foundation.sdsmt.edu>

Hardrock Hall of Fame Inducts New Members

Five individuals and two teams were inducted into the Hardrock Club Hall of Fame on September 24, 2011. The honorees were also recognized at halftime of the “M” Day Homecoming football game that evening. With the addition of the 2011 inductees, the Hall of Fame has honored 61 individuals and 12 teams since it was formed in 2004.

Inductees include:

Mitch Slusarski (IE 95) - Men’s Basketball:

At the time of his induction, Slusarski was the most prolific three-point shooter in Hardrock history. During his career from 1990-1994, Slusarski established school records for three-pointers in a game (9), three-pointers attempted in a career (657), and career three-pointers made (242). He is currently eighth on the all-time scoring list with 1,463 points. Slusarski is also the all-time Hardrock assists leader with 670, and he was a tenacious defender. He was a key member of the 1991-1992 Hardrock team that set the school record for wins with 22.

Kalli (Gilman) Spicer (IS 94) - Women’s Basketball: An SDIC MVP and three-time SDIC All-Conference member, Kalli Gilman was a key member of three SDIC Conference Championship teams from 1991-1994. She was a strong two-way player and is currently the 10th all-time scorer in Lady Hardrock history with 1,444 points. In addition she was in the top 20th all-time rebounder and 18th all-time in assists at the time of her induction.

Gary Eschenbaum (MinE 74) – Football: Gary Eschenbaum was the first premier receiver in Hardrock football history. He established seven records during his career from 1969-1972 including passes caught in a game (10), season (55), and career (140); and receiving yards in a game (183), season (905), and career (2,338). His

record of 16 career touchdown receptions still stands. An All-NAIA District and SDIC selection, Eschenbaum is truly one of the top receivers in Hardrock football history.

Leah Novicki (CE 96) – All Around: Leah Novicki was a standout two-sport athlete for the Lady Hardrockers. An SDIC All-Conference performer in both volleyball and basketball, Novicki was a determined, hard-working athlete who helped her teams to success. She finished her basketball career with 1,004 points (currently 22nd all-time) and was 12th in all-time rebounding with 690. She holds the school record for rebounds in a game with 31, a number that may never be broken.

Liz Vandel (MinE 93) – Track: Liz Vandel is the first woman who competed in track to be inducted into the Hardrock Hall of Fame. She was a three-time SDIC Individual Discus Champion and placed seventh in the NAIA Discus throw in 1993. She is second in the discus and seventh in the shot put in the all-time Hardrock track records. During her career, she also held the school record for the discus at 138-5.

1990 and 1992 Men’s Cross Country Teams: Both of these cross country teams won NAIA District Championships. The 1992 team had the greatest turnaround in School of Mines history. The Hardrockers finished third out of four teams in the SDIC meet, 16 points out of first place. One week later, in snow and cold temperatures, the Hardrock team defeated defending NAIA District Championship Northern State, SDIC Conference Champion Black Hills State, and North Dakota Champion Jamestown College. The Rockers placed four runners in the top seven, winning the team title by 25 points over second place Northern State and 61 points over conference rival Black Hills State.

From the Desk of Tom Rudebusch

The Hardrock Club’s *Rocker – Up for DII* campaign’s goal is 12 million dollars; all for athletic scholarships over a five year period ending December 31, 2015. This ambitious effort coincides with the School of Mines move to NCAA Division II athletics. Our plan is to endow ten million of the funds raised to give us yearly income. Reaching our goal will give us the necessary financing to be a competitive NCAA DII institution for many years into the future.

As of September 30, we have reached \$1,165,000, and I thank all of you that have made a commitment to this campaign. How successful this move to a higher and more prestigious level of athletics is tied to the level of scholarships we need to offer to be competitive in all sports.

Hardrock athletes have done well in the classroom and have posted a higher g.p.a. (3.01) than the general student body (2.78). With nearly 220 athletes, they account for around 14% of the undergraduate enrollment at Mines. There is no doubt our scholar athletes have kept up their end of the bargain.

There are several ways you may participate in our *Rocker – Up for DII* campaign; yearly contributions pledged gifts over a five year period;

endowments (starting at \$35,000), along with future commitments from wills and trusts. We are in need of two large gifts (\$1,000,000 +) to begin the endowment part of our campaign. This size of gift will have a never ending impact on our Hardrock Club scholarship program and the athletic department! I am available at any time to travel and visit about ways that you can be included in our efforts. You may contact me at 1-605-394-2601 or by email at thomas.rudebusch@sdsmt.edu. All size gifts are important and appreciated toward our goal.

This is a very important part of the overall School of Mines future development and School of Mines President Robert Wharton has acknowledged this campaign as one of the university’s near-term priorities. Remember, all contributions and commitments to our efforts are included and recognized in the SDSM&T Foundation’s *Building the Dream* campaign.

Thank you for considering the Hardrock Club *Rocker – Up for DII* campaign in your giving, and I look forward to updating you again in our next report.

Tom Rudebusch
Hardrock Club Executive Director

Youth Programs Has Successful Summer

For the Youth Programs office at the School of Mines, summer 2011 meant kids – and lots of them! The office’s mission is to increase interest in the areas of science, technology, engineering, and math (STEM) in K-12 students in order to increase future enrollment in STEM areas and enrollment at the School of Mines.

This summer, camp staff hosted 374 residential campers, up 32% from the previous year. They also had 277 students attend day

camp and day classes, for a total of 651 campers throughout the summer.

In preliminary counts for fall 2011, 7.5% (30 students) of the incoming freshman class are former youth programs students, totaling over 80 students at the School of Mines who have come to the university through youth camps.

For more information on the Youth Programs office and the educational opportunities they offer, visit www.sdsmt.edu/learn

Pre-Engineering Education Collaborative (PEEC) Program



Jason Tinant, Joni Tobacco, Kyle White

The Pre-Engineering Education Collaborative (PEEC) Program is a National Science Foundation funded grant with the goal of increasing the number of Native American students in the field of engineering. Through

collaboration between Oglala Lakota College (OLC), the South Dakota School of Mines and Technology, and South Dakota State University (SDSU), PEEC offers pre-engineering courses, service-based learning projects, and mentoring for students in the program.

Jason Tinant (GeolE 00/MS CE 02) is pictured teaching surveying, the first cooperative course of the PEEC program, in collaboration with Bruce Berdanier (SDSU) at the OLC Piya Wiconi Center in Kyle, South Dakota. The OLC students are completing one of the laboratory sessions by practicing using a total station to determine the height of different wind speed indicators on the communication tower. The elevations were used in a wind speed study that took place this summer in addition to other projects created as part of the PEEC grant.

Close-Ups

Dr. Dimitris Anagnostou (assistant professor, Electrical and Computer Engineering) received the DARPA Young Faculty Award (YFA) from the Department of Defense. This prestigious award will engage and expose Dr. Anagnostou to Department of Defense needs as well as DARPA’s program development process. According to the DARPA website, “The YFA program provides funding, mentoring, and industry and DoD contacts to awardees early in their careers so they may develop their research ideas in the context of DoD needs. The program focuses on untenured faculty, emphasizing those without prior DARPA funding. The long-term goal of the YFA program is to develop the next generation of academic scientists, engineers and mathematicians in key disciplines who will focus a significant portion of their career on DoD and national security issues.”

Dr. Anagnostou also had the following paper featured at the Antenna Designer’s column of the IEEE Antennas and Propagation Magazine: A. A. Gheethan and D. E. Anagnostou, “Broadband and Dual-Band Coplanar Folded-Slot Antennas (CFSAs)”, *IEEE Antennas and Propagation Magazine*, Volume 53, Issue 1, Feb. 2011, pp: 80 – 89.

Dr. Keith W. Whites (professor/Steven P. Miller Chair, Electrical and Computer Engineering) published the following journal paper: R. Shankar, L. Groven, A. Amert, K. W. Whites and J. J. Kellar, “Non-aqueous synthesis of silver nanoparticles using tin acetate as a reducing agent for the conductive ink formulation in printed electronics,” *Journal of Materials Chemistry*, vol. 21, pp. 10871-10877, 2011.

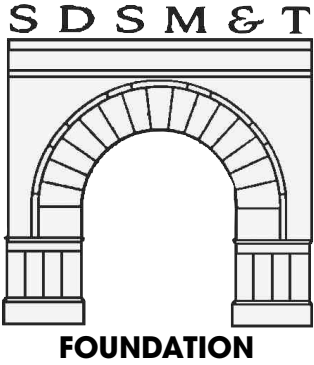
Dr. Whites has also presented and published the following conference papers: M. A. Al-Tarifi, D. E. Anagnostou, A. K. Amert and K. W. Whites, “Multiple superstrates technique for a broadband cavity resonance antenna (CRA),” *Proc. IEEE Antennas and Propagat. Soc. Int. Symp.*, Spokane, WA, pp. 1254-1257, July 3-8, 2011; L. A. Loeb and K. W. Whites, “Density normalization of susceptibility for compressible artificial material measurements,” *Proc. IEEE Antennas and Propagat. Soc. Int. Symp.*, Spokane, WA, pp. 1852-1855, July 3-8, 2011; and M. A. Al-Tarifi, D. E. Anagnostou, A. K. Amert, and K. W. Whites, “Bandwidth enhancement of the cavity resonance antenna using multiple dielectric superstrate layers,” *IEEE IMS Int. Symp.*, Baltimore, MD, June 2011.

Mark Hanhardt (masters student, Physics) successfully passed his thesis defense in August 2011. He is the first degree student on dark matter search project at the School of Mines.

“I have been working with the LUX (Large Underground Xenon detector) collaboration up at the Sanford Lab in preparing the LUX detector to go underground,” stated Hanhardt. “The LUX detector will use a cryostat with 350 kg of xenon liquid and gas in the Davis Cavern 4850 feet underground to search for the faint signal of WIMPs (Weakly Interacting Massive Particles) that would give us a positive identification on the mysterious dark matter that makes up 80% of all matter in the universe.”

“My work was specifically to characterize and calibrate several photomultiplier tubes used to reject nuclear backgrounds resulting from cosmic radiation and natural radiation in the rock,” added Hanhardt.

Hanhardt was also able to help around the lab with various systems and informing the water shield designs.



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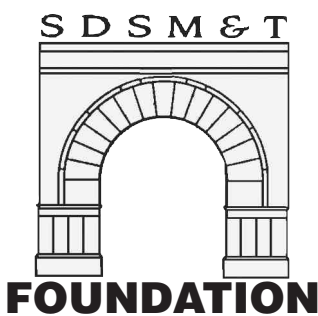
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The Foundation Update shall be used as a forum to advise alumni and friends of important events occurring on campus and within the Foundation.

I extend thanks to the individuals who have contributed news reports to the Foundation Update and to the Rapid City Journal, our publisher.

Sandy Carlson, Editor

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Patrick K. Kozak
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Ethan R. Swanson
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Adam L. Schulz
Michelle M. Stadel
Ashley E. Vayer-Jenkins
Nathan P. Zastrow

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Eric J. Musil
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Drew J. Sykora
Jason A. Wendling

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609 Consulting, LLC
A2L Technologies, Inc.
AAA South Dakota
Abbott Laboratories Fund
Abraham Medical Center
Action Mechanical, Inc.
Adams Mastrovich Family Foundation
Agilent Technologies
AISC Education Foundation
Albemarle Corporation
ALCOA Foundation
Alpha Delta Kappa
Alpha Natural Resources, Inc.
Alpha Services
American Colloid Company
American Council of Engineering Companies of SD, Inc.

American Indian Science & Engineering Society
American Institute of Steel Construction, Inc.
American Society of Civil Engineers-SD Section
American Society of Mechanical Engineers-Nebraska Section
The American Society of Mechanical Engineers
AMGEN Foundation
Applebee's Neighborhood Grill & Bar
ARAMARK Corporation
ARC International, Inc.
Arch Coal, Inc.
Archer Daniels Midland Foundation
Architecture Incorporated
Arrowhead Country Club
Ball Corporation
Bamboo LLC
Barr Engineering Company
Barrick Gold of North America, Inc.
The Beanery 'Deli & Bakery'
Bechtel Foundation
Beckman Coulter Foundation
BH Retired Teachers
BHP Billiton
Black Hills Ammunition, Inc.
Black Hills Area Chapter Ashrae
Black Hills Area Community Foundation
Black Hills Astronomical Society
Black Hills Blend Inc.
Black Hills Chamber Music Society
Black Hills Chapter-ISEE
Black Hills Community Bank
Black Hills Community Theatre
Black Hills Corporation
Black Hills Federal Credit Union
Black Hills Harley-Davidson
Black Hills Obstetrics and Gynecology LLP
Black Hills Powder Coating
Black Hills Power
Black Hills Prospecting Club
Black Hills Regional Eye Institute
Boeing Company
Botticelli Ristorante Italiano
The Boys Home Society of Baltimore Inc.
BP Amoco
The Brass Family Foundation
Brosz Engineering, Inc.
Buffalo Wild Wings Grill & Bar
Builders Supply Company
Burns & McDonnell
Buskerud Construction, Inc.
Cadillac Jack's Hotel and Gaming

Canyon Lake Resort
Cargill Deicing Technology
Cargill, Incorporated
Caterpillar Inc.
Cetec Engineering Services, Inc.
Charles Desmond - Ian Handley - Brian Winckel Partnership
The Charles J. Strosacker Foundation
Chemgrout, Inc.
Chevron
Chevron Phillips Chemical Company, LP
Chris Supply Company, Inc.
City of Rapid City
Clarkson Family Foundation
The Cliffs Foundation
Cloud Peak Energy
Coca Cola Bottling Company
Coca-Cola Scholars Foundation
Coleman Black Hills Gold
Communications Supply Group, Inc.
Complete Cryogenic Services, Inc.
ConAgra Foods
ConocoPhillips
Constellation Energy
Continental Resources Inc
Control Systems Technologies, LLC
Cooper Tire and Rubber
Crazy Horse Memorial
Cretex Concrete Products West, Inc.
Croell Redi-Mix Inc.
Crystal Quest
Dakota Business Center
Dakota Indian Foundation
Dana Corporation Foundation
Daugard for South Dakota
Dave Schmidt Insurance Agency, Inc.
Dean Kurtz Construction Company
Dells Materials Company
Docks Unlimited
Door Security Products, Inc.
Dow Chemical USA
Dow Corning
Duhamel Broadcast Enterprises
Dyno Nobel
Dyno Nobel North American
E. Lawrence Brevik Foundation
Eagle Sales of the Black Hills
The Educational Travel Institute of America LLC

Eisenbraun & Associates, Inc.
El Paso Corporation
Elkhorn Ridge Golf Club
Elks Golf Course
Elks Theatre
Embassy of the People's Republic of China
Emerson Electric Company
Emmanuel Episcopal Church
Energy Laboratories, Inc.
Environmental Building Systems, Inc
Event Analysis Group, LLC
ExxonMobil Foundation
Fairfield Inn & Suites
Ferber Engineering Company
Firehouse Brewing Company
First American Title Company
First Gold Hotel and Gaming
First Interstate BancSystem Foundation
First Interstate Bank
Fluorochrome, LLC
FM Global Foundation

FMC Good Government Program
FMG Engineering
Fountain Springs Golf Course
Four Front Design
Freeport-McMoRan Copper & Gold Foundation
Freese Family Charitable Trust
Fuelade Technologies LLC
G.W. Wireless, Inc.
General Electric Foundation
Golden West Technologies, Inc.
Goldman Sachs
the Golf Club at Red Rock
Google
Gordon Ingwersen School of Mines & Technology Scholarship of the Sioux Falls Area Community Foundation
Gordon A. Larson Foundation, Inc.
Graco Foundation
Graffiti's Car Wash & Express Detail
Grossenburg Cattle Co., Inc.
Gunderson, Palmer, Nelson & Ashmore, LLP
Gustafson Builders
H F Webster, Inc.
Halberstadt's Men's Clothiers
Hanson Surveying & Mapping
Hardrock Club
Hardrock Marketing LLC
Hart Ranch Golf Course
Heald Land Surveying
Hecla Limited - Lucky Friday Mine
Helms & Associates
Herbert Weisz Philosophy Society
Hermanson Egge Engineering, Inc.
HF Webster Engineering & Professional Services
Hills Materials Company
Hormel Foods Corporation
Horton Holding Inc.
Hotel Alex Johnson
Houghton Mifflin Company
IBM Corporation
IDT
Imation
Independent Insurance Agents of Rapid City, Inc.
Ingersoll-Rand Company
Innovative Materials and Processes, LLC
Innovest Portfolio Solutions LLC
Intel Foundation
Intergalactic Marketing, Inc.
Interior Woodworks
J Lazy R Ranch
J. Scull Construction Service, Inc.
John Deere Foundation
John T. Vucurevich Foundation
Johnson Controls, Inc.
Kadmas Lee & Jackson
KBR
Ketel Thorstenson, LLP
Kiewit Mining Group, Inc.
Kiwanis Club
KL Energy Corporation
Knology of the Black Hills
Kolberg-Pioneer, Inc.
Komatsu America Corporation
L-3 Communications
LaQuinta Inn
Lockheed Martin Corporation
Lynn Jackson Shultz & Lebrun PC

MAPTEK
Matrix Consulting Group
McKie Automotive Group
MDU Resources Foundation
Meadowbrook Golf Course
Medtronic Foundation
Merck & Company, Inc.
MFS
Michael Baker Corporation Foundation
Michael's Mens Wear
Microsoft Corporation
Midcontinent Foundation
Midcontinent Testing Laboratories, Inc.
Midtown Motors
Midwest Marketing
Mines Bookstore
MotionCare
Moyle Petroleum Company
National American University
National Coal Transportation Association, Inc.
National Relief Charities
Nelson Brothers Mining Services, LLC
New Rushmore Radio, Inc.
Newmont Mining Corporation
Noble Energy
The Norbeck Society
Northern States Power Company
Northrop Corporation
Northview Dental
Novartis Corporation
NRG Energy, Inc.
Nucor Corporation
Occidental Petroleum Foundation, Inc.
O'Connor Company, Inc.
On The Border
Oracle Corporation
Orica USA Inc.
P&H Mining Equipment
Peabody Energy Corporation
Pella Rolscreen Foundation
Pete Lien & Sons, Inc.
PG&E Corporation Foundation
Phase Technologies, LLC
Pioneer Bank & Trust
Pioneer Community Investment
Pirate's Cove Adventure Golf
Plexus
POET
Powder River Office Supply, Inc.
Prairie Edge
Precast/Prestressed Concrete Institute
Procter & Gamble
Random House, Inc.
Rapid City Economic Development Foundation
Rapid City Fine Arts Council, Inc.
Rapid City Journal
Rapid City Regional Hospital
Rapid Precious Metals, Inc.
Raven Industries, Inc.
Raytheon Company
RCS Construction, Inc.
RE/SPEC, Inc.
Redriven Power Inc.
Riddle's Jewelry
Ring Container Technologies
Rockwell Collins
Rocky Mountain Coal Mining Institute
Root Sports
Rosenbaum's Signs
Rossin Foundation

Royal Gold, Inc.
Royal Sport Shop
RPM and Associates, Inc.
RPM Solutions, Inc.
Rush Foundation Inc
Sabra Godard Newberth TR
SAE International
Saint-Gobain Corporation
SD Engineering Society
SD Engineering Society-Black Hills Chapter
SD Well Drillers Association
SDSM&T Alumni Association
SDSM&T Museum of Geology
SECO Construction, Inc.
Sense Technologies, LLC
Shakopee Mdewakanton Sioux (Dakota) Community
Shavlik Technologies, LLC
Shell Oil Company Foundation
Signs Now
Silverado Gaming Establishment & Restaurant
Sioux Falls Area Alumni
The Skin Institute
Skyline Engineering, LLC
SME Education Foundation
The Smith Ramsey Foundation
South Dakota Discovery Center & Aquarium
South Dakota Engineering Society
South Dakota Science & Technology Authority
South Dakota Water & Wastewater Association
Southwest Gas Foundation
Southwestern Energy Company
Space Exploration Technologies Corporation
Spearfish Canyon Country Club
St. John's Lutheran Women
Stanley J. Johnsen Concrete
State Farm Companies Foundation
Stemlock, Inc.
The Stephens Foundation
Structural Integrity Associates, Inc.
Swan Family Foundation
SymCom, Inc.
T L Childs Trucking Ltd
TCF Foundation
Tellabs
Tennant Foundation
Terex Corporation
Tesoro Petroleum Corporation
Texas Instruments Foundation
Tetron, Inc.
TiNi Alloy Company
Tioga Machine Shop Inc.
Toby's Casino (South)
Trail King Industries, Inc
U.S. Bank
United Corporation
United Technologies Corporation
Victoria's Garden, LLC
The Walt Disney Company Foundation
Wells Fargo Foundation
Wells Fargo South Dakota, N.A.
West Central Engineering Services
West Plains Engineering
Western Dakota Gem & Mineral Society
Wheeler Manufacturing Company
Williams Community Relations
The Wine Cellar Restaurant
Women of the Moose
Wyss Associates, Inc.
Xcel Energy Foundation
Zonta Club of the Black Hills

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Gary and Jane Fick
Gratia Griffith
Deanna Lien
Marilyn Mohrman
Robert Wharton and Carolyn Fassi Wharton
Thomas and Edra Wheelock
Barbara Zell

Platinum Club - \$5,000 +

James Borglum
Helen Brauner
Betty Brink
Edward Corwin
Bob Fayfield
Dorothy Graham Trust*
Lee Leonhardy
Lois Oberg*
Harold* and Laura Orville
David Stechmann

Gold Club - \$1,000 +

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Patricia Andersen
Pehr Anderson
Anonymous
Dale Bachwich and Vera Kowal
Dwight Boysen
William Brown
Patrick and Lucy Burchill
Sandra and Scott Carlson
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John Corkill
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Arletta Dailey
R.M. and Susan Danisch
Arlene Dugdale
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Lyle and Dorothy Feisel
Jack First
Thomas and Jo Linda Fleming
Elisabeth Fullenkamp
Graham and Kacee Garner
Sherie Goppert-Keele
Richard and Nancy Gowen
Molly Gribb and William Holder
Elizabeth Griebel
Daniel Hafner
Daniel Haggerty
Kenneth and Helen Han
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Duane and Royia Hrcncir
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Harvey and Cynthia Jewett
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Kathleen Kober
Glen and Ardis Koppelman
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Larry and Teresa Longseth
John and Tamara Luchini
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Pat and Tom Mahon
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Thomas and Nancy Oliver
Leland and Judy Olson
Loreli Reuter
Thomas Rudebusch
Debra and Peter Ruehlman
Mary Katherine Saylor
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Lycia Scott
Susan Shirley
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Paul Smith
Katherine Stinson
Donna and Gus Theodosopoulos
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Ronald White
Karen Whitehead
Maureen Wilson
Kenneth Wyckoff
Donald and Susan Zafft
Grace Zafft
Luke Zweifel

Silver Club - \$500 +

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Scott Amos
Jack Atwater
Sangchul and Sookie Bang
Andrew Barnaukas
Carlos Beatty, Jr.
Pat Beu
Thomas and Linda Bjstrom
George and Donna Brown
Joseph and Melody Burchyski
Mary Jane Cleary
Robert Corey
Andrew Detwiler
Harold Doerr
Judith Duhamel
Barbara Felderman

Marie Fullenkamp
Michael and Marnie Gould
Brian Hagg
Jason and Anne Henry
Erica Howie
Lance James
John Job
Tim Kelly
Michael and Denise Krohn
Greg Kutcher and Maura Randall
James and Jennifer Landis
Josephine Lee
Alvis Lisenbee
David and Laura Martin
Ryan Messick
Richard and Paulette Nankivel
Rodney and Deloris Nielsen
Daniel and Jean Petereit
Melvin and Isa Riley
Darrell and Karla Sawyer
Barbara and Streeter Shining
Kent Smith
R.S. Tanner
Lana Thom
Mitchell Vander Vorst
James and Linda Westwang
Barbara Weyer
Justin and Joyce Wheeler
Lonnie and Linda Wilbanks

Bronze Club - \$250 +

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Alfred Boysen
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Mike Fick
Sandra Fischer
Michael Foygel and Monna Portnoy
Gene Gillen
George Gladfelter
Lea Gonzales-Bier
Sid and Diane Goss
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Ted and Bonnie Hanson
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Carter and Colleen Kerk
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Deborah Mitchell
Eleanore Moe
Ardene O'Connell
Don and Jeannette Oliver
Valerie and Shane Olney
Maribeth Price
Thomas and Janet Propson
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Richard and Addie Roush
Robert V. and Donna Rudebusch
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Kurt Solay
Mary Stein
Suzanne Stratford
Donald and Christine Teets
Andy and Glorianne Ten Braak
Molly Tobin
Richard and Dana Towne
Jill Trimble
Charla Turch
Frank Van Nuys
Donaline and Dale VanEvery
Troy Ward
Lloyd and Doris Warner
Laura Younklin
Andrew and Dina Zafft
Zhengtao Zhu

Prospector - \$0.01 +

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Timothy and Sally Aadland
Steven Abraham
Adrienne Adam
Richard Adam
Gene Albrecht
Craig and Marian Alexander
Rodney and Shirley Alexander
Jacqueline Allen
Kathryn and Lee Alley
Kirk Allison
Mike and Jena Amiotte
Alan Anderson
Rudy and Lois Anderson
Nancy Anderson-Smith
Lavern and Leona Anthony
Kathy Antonen
Margaret Anzevino
Wanda Artz
Dan and Leslie Ashmore
Dorothy Ashmore
Maureen Austinson
Jeffrey and Cynthia Bailie
Rick Bandy
Reuben and Marlowe Bareis
John and Anne Barlow
George Barry
Cathy Bauer Schuett
Patricia Baumgartner
Matteo Bava

Byron Beamer
Phillip and Sonja Anne Beaudoin
Mark Bedillion
Janis Behrens
Maxine Bender
Vickie Bender
Penny Bender-Penfield
Kenneth and Kara Benjamin
Phyllis Bentley
Nola Bentz-Reber
Bruce and Melinda Berdanier
Mark and Janet Bernu
Breanna Bishop
Trudy Bombardier
David and Connie Bonner
Bradley Borg
Alfred Borgen
George and Lucille
Edie Boulter
Myrna Boyken
William Bradwisch
Karen Braman
Glenellyn Braun
Ann Brayson
D. and C. Brechtelsbauer
John and Lauralene Brentlinger
Richard Brich
Donovan Brill
Everett Brill
Theodore and Loretta Brockel
Ernie and Linda Brodie
Lillie Brown
Maurice and June Brown
Timothy Brown and Tina Smith Brown
William and Wanda Brown
Lilly Bruckner
Gwenda Buckmaster
Jeff and Linda Budd
Raymond and Mary Burnett
Tristan Burnett
Joni Bush
Virgil and Marguerite Byford
Stephanie Calcagno
Bob and Tonja Cale
Jim and Joan Cantrell
Peter Cappa
Brent and Cindy Carey
Nick and Adrien Carlson
David Carter
Patricia Casey
Christer and Laurel Cederberg
Debbie Chapa
Harlan Charles
Anna Chavira
Sarah Chen
Judith Chilstrom
Lew and Diana Christopher
Marilyn Clark
Lloyd and Janice Clausen
Lenore Coble
James and Christine Coleman
Forest Cooper
Sharon Copt
Thomas Corcoran
Rebecca Cornell
Pamela Cox
Raymond and Kristin Coyle
Dave and Kathleen Crabb
Nancy Crase
James and Mary Crawford
Robert and Yvonne Crisman
Mary Anne Cummings
Marcie Cutler
Gregory and Marie Cuypers
Howard and Cathleen Dahlgren
Beverly Darnall
Linda Daugaard
Kevin and Rene Davis
Michael and Carmen Derby
Lisa and Vandal DeVries
Kenneth and Kathleen Dewell
James and Kathy Didier
Cheryl Dillon
Brian and Sally Ann Dodge
Daniel F. Dolan
Sharon Dominick
Lucille Donnelly
Dani Doran
John Dorsey and Lisa Reddel-Dorsey
Betty Downs
Jean Drew
William Duhamel
Kathryn Edds
Jessica Eise
Laura Eise
David and Cindi Elkjer
Linda and John Embrock
Mark Emerson
Rodney and Gogie Enstad
Mark Erbe
Darrell and Phyllis Erickson
Douglas and Shirley Erickson
Harvey and Sue Erickson
Debra Erickson-Louchart
Hazel Erickson
Elmer Estes and Zetha Drew-Estes
Daniel and Nancy Evangelisto
Matthew and Pamela Farmer
Taylor Farmer
Mary Farrington
Philip and Marilyn Fauchald
Joseph Fazio
Nancy Feiler
Elizabeth Field
Carolyn Finley
Donna Fisher
Ruby Flaig
Andrew Fleming
James and Cheryl Fleming
Margaret Fletcher

Robin Fondow
Hao Fong
Doug and Pat Fossum
Flora Foster
John Fowler
Donald and Jean Frankenfeld
S. Allen Freeland
Kelsey Freidel
Ivan and Tracy Friesen
James and Judy Frost
Timothy and Debora Frost
Dale Fullerton
John and Colleen
Chase Gardner
D. Gehring
Eric and Lorna Glenn
Gary Glenn
Priscilla Goelzer
Kristin Goodwin
Scott Gorder
James and Lisa Grapentine
Brenda Graziano
Lisa Griebel
Alice Groethe
Frank and Julie Grundmeier
D. Gunderson
Wynn and Lorraine Gunderson
Franklin and Marilyn Guthals
Wayne and Theresa Guthals
Ellen Haffner
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Scott Hall
Fred and Dorothy Hamilton
Leo and Audrey Hamm
Vivian Hansen
Douglas and Kathleen
Richard Harlow
Kerry Hass
Cal Haugland
T.J. and Traci Hay
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Dan Heglund
Barry and Kathy Heiss
Steven and Wanda Helmers
Thelma Heltzel
Dave and Sharon
Marnie Herrmann
Gary and Barbara Hewett
Zbigniew and Halina Hladysz
Lori Hodgins
Heather and Terry Hoffart
Angela Hoggarth
Susan Holewa
Betty Holliday
Burton and Cynanne Hosity
Rachel and Tim Howard
Jason Hower
David and Marianne Ireland
Charles and Michele Isom
Brian and Linda Iverson
Maryann Jacob
Scott Jacobson
Leon and Kaye Janovy
D. Jelden
Lin Jennewein
Jolee Jensen
Warren and Arlean Jensen
Ronald Johnsen
Errol and Gladys Johnson
Sylda Johnson
Billie Jean Jones
Rebecca Jones
James and Christine
Joseph and Jolene Jungwirth
Donald and Marlene Kechely
Michael Keegan
Kent and Kathleen Kehrberg
Brian Kennitz
Joseph and Elizabeth Kieffer
Ronald and Michelle Kijewski
Travis and Terri Kilburn
Calvin and Wanda Kincaid
Charles and Myrna King
J.W. Kinsel
Marlin Kinzer
Pamela Kittridge
James and Cora Klesalek
Allan Koshil
Adam Krause
Christal and Gary Krein
Mary Kreuger
Connie Krosschell
Deborah Kuehn
Andy Kuipers
Tammy and Tim Kursave
Leah Kutcher
Sarah Kurcher
Kent and Janet LaDue
Jon and Julie Lafluer
Bernadette Lambert
K. Diane Lane
Gerald and Suzanne Laurich
Terry Lauritsen-Grant
Robert and Shirley Lautenschlager
Steven Lawler
Cody and Mary Lawrence
Sharon Lee
Melinda Ley
John and Linda Lillibridge
Robert and Doris Lind
Stephanie Lindsley
Beverly Lingle
Jay and Kresi Long
Judy Looney
Stanley Looney
James Lowry
Rick Lutes
K. Mackey
Peter and Mary Madden
Jon and Inez Malcolm
John and Mary Malik

Robert and Tammy Mallett
James and Luann Mattern
Terrance and La Ree Mayes
Mary Linda McBride
Rick and Pam McCampbell
Tony McElhinney
Betty Ann McFall
Jeff McGough and Julie McFarland
Katheryn McIntosh
Richard and Peg McMartin
Duncan McRae
James McReynolds
Shawn Mechling
Santee Meier
Brady Meister
Steven and Karen Melena
Andrea Mellage
Dana Mellage
Todd Menkhous
Steve and Mary Mentele
Carol Merwin
Lonnie and Virginia Messick
Justin Meyer
Kenneth and Mari Meyer
Brad and Kathy Miller
Karen Miller
Katie Miller
Linn Miller
Paulette and Donald Miller
Isabel Mills
Edward and Susan Minerd
Mark and Carolyn Mollers
Lorraine Mundt
Wayne Munson
Terry Murphy
B. and Janice Musser
Barbara Mustard
David and Mary Beth Mutchler
Jamie Muth
Gerald and Mary Nasseff
Amy and Clifford Neal
Kay Nelson
Lucille Nelson
Scott Nelson
Gene and Margorie Nett
Paul and Victoria Newhouse
Jeanette Nilson
Matthew and Debra Noah
John and Gloira Nolan
Suzan Nolan
Timothy Nolan
Austin Norberg
Michelle Novak
Gary Oakley
Eric and Barbara Oberndorfer
Bradley O'Brien
Joanne O'Brien
Jeanette Odle
Judith Oldham
Ramona Oliverio
Kathie Olsen
Mark and Karri Olson
Mark Olson
R. Darlene Olson
Rich and Debbie Olson
Charles Opitz and Marla Christensen-Opitz
Kimberly Osberg
Anthony and Rose Ottaviano
Susan Overgaard
Edmondson and Mary Overton
Charles Pahlmeyer
Alonzo and Anitra Paige
Audrey Painter
Varun Palainswamy
Carolyn Paluch
Nancy Parker
Colin Paterson
James and MarLuce Patterson
Stephen Pawelski
Cathy Payne
Ronald and Janet Pekarek
Manuel Penalaza
Laurie Peterson-Wright
Rodney and Karen Pettigrew
Ted and Laurel Pettyjohn
Andre Petukhov
David and Patricia Ploof
Glenn Plumb
Ned and Jo Ann Polenz
Marcela Polo
Melinda and David Poyourow
Ian Prichard
Jan Puszyński
Rose Quaday
Ann Quam-Haakenson
Linda and Denny Rabe
Timothy and Karen Raben
Deborah Radomski
Larry and Kathleen Raffensparger
Margaret Ramaker
Mary Ann Randall
Daniel and Molly Rasby
Nicholas Redden
Cleo Reed
Patrice Reed
Thomas and Diana Regan
Rod and Mary Rehor
Rodney Rice
Mary Richards
Al and Leeann Rieman
Beth Riley
David and Ruth Rinker
Alan and Jill Ritz
Marc Robinson
Douglas and Jane Rogers
Richard Rogers
Roy and Gail Rohde
Marie Romano
Judy Rosenblith
Brad and Cathy Rosonke

Dale and Jennifer Ross
Eileen Rossow
Joe and Elsie Rowland
Larry and Carolyn Rust
John Salazar
David Salem
Arith Sand
Katherine Sanders
Rajesh Sani
William and Florence Saunders
Bonnie Sawdey
B. R. Schacht
Daniel Schaller
John and Jenifer Scherlin
Maria Schiff
Keith Schindler
Gayla Schlei
George and Shirley Schlottman
Richard and Judy Schneiderman
Karen Schroeder
Loryn Schuetzle
Laverne and LaDonna Schugel
Daniel and Ladonna Schultz
Kelli and Daniel Schultz
Jackie Schumacher
Stephanie Schumacher
Cassie and Jerry Schweigerdt
John Schwerkoske
James Sears
Kristen Sears
Gerald and Cynthia Shagla
John and Barbara Sharp
Sally Shelton
Rajesh and Anuradha Shende
Verne and Donna Sheppard
Joseph and Cindy Shetler
Ann Shockman
Bruce Shockman
Dorothy Shockman
Roy Shull
Donald and Frankie Shultz
Kelli Shuman
Brent and Kimberly Siekman
Charles and Brenda Sinks
Pennie Slovek
Brandon and Megan Smith
Lee Smith
Steve Smith
Judy Sneller
Dr. Kazem Sohraby
Abena Songbird
David Sorgatz
Thomas and Bonnie Spivak
Robin Stambaugh
Wyatt Stangohr
Sarah Steiner
Susan Stelter
Edward and Debra Stephens
Coral-Etta Stevens
Arthur and Charmaine Stewart
Curt Stockford
Darlene Stumpf
Anne Stundahl
Pallaoor Sundareswar and Shalini Kanekar
Andrea Surovek
Bart and Mary Swanson
Anthony and Jennifer Taschner
Ronald and Donna Taschner
Donna Taubenheim
Janet Taylor
Richard and Bridgette Taylor
Joyce and Kenneth Temple
Charles and Karen Tiltrum
Deborah Tompkins
Kermit and Jean Torve
John Tristao
Johannes Troost
Ralph and Kathryn Tuff
Mark Urban
Murray and Cindy Van Laecken
Connie VanBockern
Jane VanBrunt
Darla VanZuidam
David and Sharon Vitters
Dana Vogt
Beverly Voigt and Howard Scarboro
Bruce and Sandra Voog
Ruth Waddington
Dorin and Alta Wade
Edward Waliczek
John and Kitty Walker
William Walsh
Phyllis Walters
Wayne and Julie Ward
Jack and Celeste Warner
Mary Watland
Pat Wheaton
Dorothy Whisler
Sandra White Shield
James and Caroline Wilde
Scott Wiley
Kristine Williams
Cody Willits
Fred and Judee Wilson
Janice Wilson
Scott Wince
Gregory and Nanette Wittenberg
Patricia Wolfe
Joan Wonenberg
Adam Wortman
Holly and Jon Yonamine
Myungkeun Yoon
Warren and Mary Helen
Theodore and Barbara Zahn
Jesse Zelek
Lois Zens
Kyle Zorz
Ardelia Zurawski

*Deceased

Peterkas Support Their High Schools with Scholarship



Dr. Sally DeRoos and Dana Peterka

Dana (Chem 67) and Dr. Sally DeRoos Peterka recently established the Dana and Dr. Sally DeRoos Peterka Scholarship at the School of Mines. This non-endowed scholarship will be awarded to an entering freshman at the School of Mines who is a graduate of Yankton High School or Tyndall (Bon Homme) High School.

Scholarship recipients will be selected based on a one-page written essay on why they would like to attend SDSM&T. The Peterkas hope to encourage more graduates of their high schools to consider the benefits of attending the School of Mines.

Dana was born and attended elementary school in Scotland and is a graduate of Yankton High School. Sally DeRoos was born in Tyndall and graduated from Tyndall High School. She is a former Miss Yankton.

During his 32-year career at Union Carbide, Dana had 14 different job assignments in seven locations. His assignments included operations, marketing, information technology, sales, training, new product development, and product management. He credits his education at the School of Mines for providing him with the foundation to handle and excel in the career advancement opportunities he was offered.

Rinn Scholarship to Support Basketball



Mark and Jennifer Rinn with their sons, Trey and Tristan

his education and basketball career at Chadron State College and Northwest Community College (Powell, Wyoming) before landing at the School of Mines where he studied civil engineering with an emphasis in structural

Mark (CE 02) and Jennifer Rinn have recently established the Mark and Jennifer Rinn Athletic Scholarship at the South Dakota School of Mines and Technology. This non-endowed scholarship will be awarded to a member of the Hardrocker men's basketball team.

Mark Rinn grew up in Buffalo, Wyoming, and graduated from Buffalo High School in 1996. While in high school, he was part of a two-time state championship basketball team. He continued

engineering.

Mark played basketball for the Hardrockers for two years and was a leading scorer under the leadership of Hugh Welsh. His best memories of his time at South Dakota School of Mines were the friendships he developed with his teammates and classmates – and a particularly good highlight was beating Black Hills State University in Spearfish.

Upon earning his bachelor's degree in 2002, Mark moved to Denver, Colorado, to start his career in structural engineering working for Anchor Engineering. Mark worked at Anchor Engineering for two years before moving on to JVA, an engineering firm in Boulder, Colorado. There he continued his work specializing in residential construction for the next three years. In 2007 Mark obtained his PE license, but after four and a half years of living in the Denver area, Mark and his wife, Jennifer, decided they wanted to move back to Wyoming to be closer to their families. As engineering jobs are not as easy to come by in small Wyoming towns, Mark took a job at a home town bank. Mark is now the vice president of operations at Converse County Bank in Douglas, Wyoming. Mark is enjoying his new career in the banking industry.

In 2003, Mark married Jennifer Moore. Mark and Jennifer have two sons: Trey and Tristan. They had a daughter, Miranda, in July, but sadly lost her due to complications during labor. Up until sustaining a knee injury last year, Mark also continued to play basketball in many annual basketball tournaments around the state. Now he settles for coaching the youth programs in Douglas and spends most of his athletic efforts on improving his golf game and chasing after his boys.

Epplen's Bequest Benefits Vertebrate Paleontology



Helen Epplen

Helen Epplen never attended the South Dakota School of Mines and Technology, nor did her husband or any of her close relatives. Her connection with the School of Mines began when she was a young woman living on her family's homestead in Lyman County near the Missouri River. A fossilized marine reptile was discovered in the cliffs by the river, and School of Mines personnel came to examine the site. Helen watched in fascination as they worked over two summers in the 1940s to extract the fossil. Over a half-century later, that fossil, the huge *Styxosaurus* that can be seen upon entering the Museum of Geology, is still on display.

Near the end of Helen's life, she learned that a new paleontology building was being constructed on campus, and she wanted to support the paleontological work going on at the School of Mines, so she made a bequest to do so. Her gift, given through a bequest in her will, established the Helen Epplen Paleontology Endowment. This endowment will support the preparation of vertebrate fossils for the museum and paleontology program at the School of Mines for perpetuity. The endowment may provide funding for salary, travel, field work, lab work, or lab equipment.

Epplen never told anyone at the School of Mines about her plans to make this bequest, and it came as a surprise to those on campus. With her generous gift, Epplen is recognized as a Benefactor in the *Building the Dream* campaign, an indication of a gift of \$200,000 or more.



The *Styxosaurus* that was found near Epplen's family's homestead in Lyman County is still on display in the Museum of Geology

Cross Country Scholarship Renamed in Honor of Hunter



Jack Hunter

The Cross Country Alumni Endowment at the School of Mines Foundation was recently renamed the Jack Hunter Athletic Scholarship in honor of Jack Hunter, a celebrated track and field and cross country coach at the School of Mines from 1975-1986. The primary contributors to the former Cross Country Alumni Endowment were coached by Hunter, and they felt he deserved special recognition for his substantial commitment to the School of Mines.

Hunter was a three-sport athlete at Colorado College in Colorado Springs, Colorado. He participated in football, basketball, and track and field, but he had the most success in track and field. An 800-meter runner, Jack was the team's two-time MVP and captain. Hunter continued to run while he was in the Army, participating in several national meets in the 800 and 400 meters. While he was in the Army Corps of Engineers, Hunter volunteered his time as a coach of high school track and field athletes at several stateside

locations. When he was assigned to the Military Science Department at the School of Mines in 1974, Hunter volunteered his time to Mike Riley, then the School of Mines basketball, cross country, and track and field coach, and he served as an unpaid assistant coach in 1974-1975. In 1975, Riley, athletic director Dud King, professor of Military Science Colonel Rick Rhicard, and Hunter reached an agreement whereby Hunter would become the unpaid head cross country and track and field coach, serving while he was a member of the ROTC staff. Hunter continued in that capacity until 1986. His work with School of Mines athletics led to his induction into the Hardrock Hall of Fame in 2008.

Hunter left active duty in 1979 and accepted a position as the director of Surbeck Center, which would begin a 19-year career serving students at the School of Mines as a student affairs administrator and as a coach, including nearly 11 years as director of Career Planning and Cooperative Education. Hunter currently serves as associate vice president for Student Academic Support Services and director of The Career Center at Missouri State University in Springfield.



Here's one way you can help SDSM&T remain the *university-of-choice* for engineering and science.

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Jean Bohannon Memorial Scholarship

William "Bill" Bohannon (ME 52) recently established the Jean Bohannon Memorial Scholarship at the South Dakota School of Mines in memory of his wife, Martha "Jean" Bohannon, who was a wonderful wife, mother, grandmother, and best friend. Jean passed away on November 4, 2009, after a courageous battle with cancer. The Jean Bohannon Memorial Scholarship is an endowed scholarship that will be awarded to a female mechanical engineering student at the School of Mines.

Jean was born in Mt. Vernon, Ohio, on March 16, 1931, to Mary Elizabeth Miller and Edward Earl Miller. She attended grammar and high school in Mt. Vernon and graduated in 1949. Immediately after graduation, she went to work for Cooper-Bessemer Corporation. After moving from Ohio to San Mateo, California, in 1964, Jean worked as senior vice president of Convention Services for the American Frozen Food Institute (an international trade association). Jean retired after 30 years of service.

Bill graduated from the School of Mines with a degree in mechanical engineering in 1952. He began his career with petroleum companies including Phillips Petroleum in Bartlesville, Oklahoma, Union Oil Co. in Los Angeles, and Arabian American Oil Company in Ras Tanura, Saudi Arabia. His next employment was with Cooper-Bessemer Corporation of Mt. Vernon, Ohio, where he spent three years in the home office and four years in Venezuela as a manager of the district office in Caracas. He then moved to the Bechtel Group of Companies in San Francisco where he spent 24 years in a variety of positions including engineering specialist, chief mechanical engineer, and principal engineer in connection with major engineering/construction projects worldwide. Since 1988, he has provided general engineering consulting on turbomachinery and large rotating equipment through Bohannon Engineering of San Mateo, California.

Bill and Jean met while they both worked for Cooper-Bessemer

Corporation. Jean playfully said she let Bill chase her until she caught him. Jean and Bill were married on Friday, November 13, 1964, in Reno, Nevada, and were married 44 years. Jean's two daughters, Pamela Roy of Lathrop, California, and Kimberlee Peterson of Mt. Vernon, were brought forth in her first marriage, and in 1966, Jean and Bill welcomed their son, W. Bruce Bohannon, DDS, MD. Jean and Bill also have eight grandchildren and five great-grandsons.

Jean's passionate hobby for 30 years was singing with the Bay Area Showcase Chorus and the Daytimers Chorus of Sweet Adelines, both a' capella groups singing four-part harmony in the barbershop style. Jean was also a member of the Altar Guild at Transfiguration Episcopal Church in San Mateo for several years and volunteered for the American Cancer Society and the American Heart Association. She served on the management teams of the Region 12 Sweet Adelines including being site selection chairman for 17 years.



Jean Bohannon

Jean also enjoyed golf and world travel, and she and Bill always enjoyed attending the All-School Reunions at the School of Mines. She leaves behind her family and many friends in the church, chorus, and frozen food industry, her neighbors, and school friends all over the country.

Ulman Establishes Unrestricted Endowment



Kathy Ulman

The Katherine Ulman Endowment fund was established by Katherine Ulman (Chem 76). This endowed fund will provide yearly unrestricted funds to the SDSM&T Foundation to support needs as determined by the Foundation Board of Trustees. Examples include educational support, student assistance, faculty development, research assistance, institutional discretionary support, and Foundation operating support.

When Ulman was asked by Brad Johnson, vice president of development, SDSM&T Foundation, to consider establishing an endowment, the answer was easy and quickly given, with no strings attached. Ulman is allowing the SDSM&T Foundation to use the funds where they are needed most.

"After being involved in developing and rolling out various programs, I understand that in addition to the money needed to

help provide opportunities to students to attend SDSM&T, there are also many hidden costs and activities that need to occur before the money can even be offered to these students," said Ulman.

"This money needs to come from somewhere, and someone needs to be willing to see and understand this need," added Ulman. "For that reason, it was easy not only to say YES, but also to allow the Foundation, as experts who understand what is needed and where/when it is needed, to allocate the money as they saw fit."

The second of five children, Katherine (Rossknecht) Ulman, was born in Deadwood, South Dakota, on February 11, 1954, to Ralph and Margaret Rossknecht. After moving briefly to Newcastle, Wyoming, her family moved to and settled in Rapid City. She attended Horace Mann Elementary, North Junior High, and Central High School before enrolling in a chemistry curriculum at the School of Mines. At the time of her enrollment, her goal was to complete a couple of years at the School of Mines then apply to medical school.

She recalls that the first day she attended freshman English she was the only female in a class of approximately 50 students. Although this was somewhat intimidating, she loved school and was very interested in learning.

During her first year at the Mines, she was inspired and encouraged by her freshman chemistry teacher, Dr. Willard. Dr. Willard and his wife had both worked on the "H-bomb" and had

been exposed to much radiation. Although his wife had since died, Dr. Willard was a truly inspirational teacher. As a result, Kathy became very interested in learning more about the exciting world of chemistry and her aspirations of medical school were replaced with aspirations of laboratory science and discovery.

Based on her new aspirations and with the help and support of many other inspiring teachers at Tech, Kathy continued a career in chemistry and graduated in 1976 with her bachelor of science degree in chemistry. Due to the year of her graduation being the "bicentennial" year for the country, commencement exercise was held at Mount Rushmore and the commencement speech was given by the then science and technology director at Dow Corning.

During her four years at Tech, Kathy held various positions with Nash Finch, Rapid City Regional Hospital, K-Mart, and State Analytical Lab, and she taught an organic lab at the School of Mines. She was also the vice president of the student American Chemistry Society chapter at Tech and a member of the Alpha Chi Sigma Fraternity.

After graduation, Kathy joined Dow Corning Corporation. She was fortunate to be able to work in pure research and development for the first ten years of her career. She then moved into the medical/healthcare business at Dow Corning where she has held many positions. She is currently working as an associate scientist/regulatory specialist helping to grow and support new business

and customer registrations (registration of new medical devices and pharmaceutical products) around the world, with a special emphasis on Asia.

During her 35-year career at Dow Corning, Kathy has been involved in various activities within and outside of Dow Corning to help promote science, and in some cases more specifically women in science. She is a strong believer that everyone should give back to their profession and their community. A couple of her most rewarding opportunities include: initiating, developing/designing, and executing the Silicone Chemistry and Technology course that is still offered as an elective to seniors and graduate students at the School of Mines; helping develop, design and implement a six-week Dow Corning silicone training program which is provided to minority high school students in the Detroit area each spring and each fall; and being a steering team member and Lunch n Learn co-chairperson for the Dow Corning Women's network.

Kathy currently has two wonderful daughters (Anne and Charlotte), four delightful grandchildren (Jasmine, Katie, Elija and Jacob), and two exceptional sons-in-law (Mike and Scott). She resides on Lake Sanford in Sanford, Michigan, and enjoys her beach front property. Although she has completed 35 years at Dow Corning, she continues with the company that she loves because she is constantly learning and challenged, but most of all because she loves and respects the people with which she works.

Morrisons Fund Scholarship for Mechanical Engineers

The Jim and Mary Ann Morrison Scholarship fund has been established by Jim (ME 51) and Mary Ann Morrison. It is to be awarded to students majoring in mechanical engineering at SDSM&T.

James A. Morrison grew up in Aberdeen, graduating from high school in 1946. He transferred to the School of Mines from Northern State College in 1948 and graduated from Mines in 1951 with a bachelor's degree in mechanical engineering. He received his MBA degree from California State University, Dominguez Hills, in 1974.

Jim and Mary Ann were high school sweethearts and were married in 1952. Jim was employed by Honeywell, International, in Minneapolis upon graduation. His early assignments were as a production engineer in three projects that provided a base for the formation of the Honeywell Ordnance Division, which was spun off as Alliant Tech Systems in 1990. After joining the Residential

Division as a production engineer he was promoted to product development engineer and developed the assembly processes for gas and water valves, thermostats, and NaK actuators.

His career path changed when he chose to be part of a reorganization of the Quality Department in 1964. After assignments in receiving, model shop, assembly and manufacturing quality, he was promoted in 1968 to quality manager of the Residential Division's Gardena, California, facility which specialized in residential gas products. The customer assurance initiatives developed for new products during the 1970s are still standards of the industry today.

The Morrisons elected to retire rather than move when the facility was transferred to the San Diego area in 1991. Later that year, Jim was employed by Robertshaw Controls in Long Beach, California, as a quality assurance and reliability manager. He served in this position until 1995.

During his time obtaining a Certificate in Quality Assurance via UCLA Extension in 1970, Jim

became, and still is, active in the Los Angeles Section of the American Society for Quality. He served three terms as chair and has held various positions on the section's Leadership Team. He was involved in the California Professional Quality Engineer activity, serving as QPE co-chair for the western regional states from 1994 to 1996 and as QPE exam writer for the California Professional Engineer Board of Registration. Jim also served as auditor and senior auditor for the California Governor's Golden State Quality Award. He currently serves on the CSUDH MSQA degree program Advisory Board. He is an ASQ Fellow, and has received the ASQ Testimonial



Jim and Mary Ann Morrison

Award, the Benjamin Lubelski Quality Award, and the Simon Collier Quality Award.

Mary Ann and Jim have two sons, Jim and David, and four granddaughters all living in the San Francisco area. They are enjoying retirement and sharing in the family activities. Having grown up on the prairie, they never tire of the contrast of seeing Catalina Island and the Pacific Ocean through their dining