

# South Dakota School of Mines and Technology

## THE HARDROCK™

A publication for our Alumni,  
Faculty, Staff, Students, and Friends

SPRING 2007

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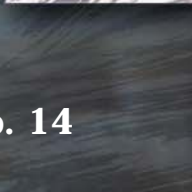
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...and much more!





## Perspectives



Dear Alumni and Friends,

We are delighted to bring you this third edition of the new *Hardrock* magazine; one that combines updates from the campus with alumni events and notes. The many positive comments we have received from members of the Alumni Association suggest you enjoy this new format.

In this issue, you will find several stories reflecting the scope and vitality of the School of Mines. The long traveled and widely recognized Don Montileaux painting

of three native youth looking to the horizon and the future, has found an appropriate home in the Smithsonian's American Indian Museum in Washington, D.C. Hardrock Club Executive Director Tom Rudebusch's efforts to produce a history of collegiate football is highlighted. The future of M Hill is ensured with the acquisition of surrounding land for a city park. M Hill is also featured in a recently released book *Hillside Letters A to Z: A Guide to Hometown Landmarks*. Alumni are playing an important role in the development of our sister institution, the Black Hills Business Development Center, demonstrated by the work of alumnus Rob Christensen's company. Finally, the campus is actively gearing up to host the 2007 Mini Baja competition here in Rapid City. These and other campus events are highlighted in these pages.

I am often asked what alumni can do to help the School of Mines. I can think of no more important activities than to be an institutional talent scout. As a nation and as an institution, we need to educate more individuals in the many fields of engineering and science. You can help by constantly being on the look out for talented individuals, with good math skills, who are interested in School of Mines programs. Send us their names and we will follow up. Your alma mater continues to provide a first-class education at a competitive cost. Our student profile is reflecting a population from an ever widening geographic region. We receive some of our best students from your referrals. Keep the suggestions coming, and many thanks.

As always, your thoughts and comments are welcome. I can be reached at <charles.ruch@sdsmt.edu>.

Very truly yours,

Charles Ruch  
President

P.S. If you are not on my bi-weekly president's e-mail newsletter list and would like to be included, please contact my office by e-mailing <carol.jensen@sdsmt.edu> or by phone at (605) 394-2411.

## SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY THE **HARDROCK** SPRING 2007

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## On the cover:

**Cover Photo:** Amid 70-mile-an-hour winds and freezing Antarctic conditions, researchers from the School of Mines recovered the well-preserved fossil skeleton of a juvenile plesiosaur—a marine reptile that swam the waters of the southern ocean more than 70 million years ago. *Story p. 10*

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***Alumni Director***

**Tim Vottero**

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**Becky Oliver**

***Administrative Assistant***

**Biljana Kalanovic**

**Alumni Association**

**Surbeck Center**

**501 E. Saint Joseph St.**

**Rapid City, SD 57701-3995**

**Office: (605) 394-2347**

**FAX: (605) 394-2383**

**E-mail: [alumni@sdsmt.edu](mailto:alumni@sdsmt.edu)**

**Web: [www.sdsmt.edu/alumni](http://www.sdsmt.edu/alumni)**



## Perspectives

Greetings, Alumni and Friends!

I am delighted to serve as your Alumni President, following in the footsteps of my (almost) classmate **Ev Bloom** (MetE63). It's been a fun transition, leading our Board and engaging many as we work to better support our 15,000 living alumni. I have a wonderful vantage point! My past activities with the School of Mines were in recruiting, advisory boards, speaking, and department assistance. But now I have the opportunity to look outward and see how alumni have moved on in their lives, what their needs and interests are, and how we might promote what is worthwhile to them.

Alumni are the greatest ambassadors that a college has because they span the school's existence and are spread throughout the world. They carry the identity of the institution into their organizations, careers, communities, and friendships. Our school is known in many ways by the "company" it keeps, and often it is through our alumni who are sent forth after graduation.

There is an uncommon bond among the School of Mines alumni, not found in many other organizations. I have seen it in a Shanghai hotel, plane to Atlanta, conference in Boston, and restaurant in Belgium. There is an immediate spark, followed by questions and memories, an exchange of business cards, and an extended friendship network. We have much to give each other and to the School of Mines. Our alumni are radar screens for the School of Mines on many fronts, as they carry back information, trends, insights and critiques. They can be quality-control indicators that help ensure students are competitive, faculty are relevant and the institution is sound. They can provide linkages to technologies and resources.

Ev talked about our two goals: increasing alumni *participation* and *funding*, both critical to our future. The first priority is *participation* and we're doing several things. Our Board committees are focused on understanding alumni needs for information and involvement, enhancing public relations for the school and our association, intensifying student contacts, promoting alumni interactions on campus, and improving communication tools. Alumni are an (often) untapped resource for the School of Mines, and sometimes we need to take the initiative rather than wait to be asked. There are numerous advisory boards and committees that could benefit from the experiences and seasoning our alumni have in many arenas.

Taking time to communicate with faculty, staff, and students through seminars, phone calls, and e-mails provides a conduit for assistance that needs to be fully exploited. A strong thrust in student recruitment can be generously supported by our alumni as well, while directed by the School of Mines. When alumni extend their hands and intellect to their alma mater, both parties are enriched in the process. Our faculty, staff, and leadership should be asking "What do our alumni think about this topic?" Let's make it easy for them to find out. (If you're not sure whom to contact, let Tim or me know.)

We're also using different approaches to our *funding* (contributions, not dues) by giving people options to give more if they wish. Without an endowment, our Alumni Association needs your annual and continuing support to maintain and expand programs and activities that are important to all alumni and the School of Mines. Matching grants for contributions are welcomed as well, which magnify your dollars. So we will keep asking in hope and expectation that you will keep giving ... and it is greatly appreciated!

There you have it — what we are thinking about and acting upon. We ask only three things of alumni: actively engage yourselves in the life of the School of Mines campus; strongly support the Alumni Association financially; and make efforts to network with classmates and recent alumni in your area or organization. That special bond is well worth establishing and maintaining, and the return of your skills and contributions to the campus is most beneficial. The rewards of all these actions are not only personally gratifying, but they also have ripple effects that will continue long into the future.

I look forward to hearing from alumni at any time about anything important to you <[Doug.Aldrich@comcast.net](mailto:Doug.Aldrich@comcast.net)>. Best wishes, fellow ambassadors, and remember that alumni really count for a lot!

Sincerely,

Douglas E. Aldrich (ChemE62)  
SDSMT Alumni President



# Campus Profile

South Dakota School of Mines and Technology has been a national leader in preparing world-class engineers and scientists since 1885. Our graduates design, construct, and operate the most modern technology to meet complex challenges such as global warming, health care delivery, energy resource development, mineral extraction and processing, environmental quality, futuristic transportation, and national defense. Our alumni are held in the highest regard by their fellow leaders in industry, consulting, government, health, research, and education.

The School of Mines continuously adapts to meet the needs of engineering and science. Rugged individuals and pioneers in engineering and science founded the School of Mines' intellectual environment more than a century ago. Our faculty and students carry on that tradition today.

The School of Mines is a state university that provides graduate and undergraduate degrees in science and engineering.

## 2006-2007 Enrollment:

2,124 students from 39 states and 32 countries

## Costs and Fees:

A School of Mines education has never been more affordable. 2006-2007 annual undergraduate costs for tuition, fees, books, room, and board total approximately \$11,450 per year for South Dakota residents and \$12,650 for non-residents. A new initiative passed for Fall 2006 sets out-of-state tuition for first-time freshmen and transfer students at a uniform rate of 150 percent of in-state tuition rates, currently totaling approximately \$12,650.

## Research:

Researchers conduct state-of-the-art research that benefits the state, the region, and the nation through advances in technology and economic development. In Fiscal Year 2006, researchers received nearly \$14 million in funding for more than 100 projects. Funding agencies included the National Science Foundation, the State of South Dakota, NASA, the Department of Education, Army Research Laboratory, and many more.

## Faculty:

The School of Mines employs 159 full-time faculty members, more than 90 percent of whom hold doctorate or other appropriate terminal degrees.

## Honors and Awards:

- One of America's Best College Buys for the ninth consecutive year
- One of approximately 200 Colleges of Distinction

## Placement:

Starting salary offers to our graduates average nearly \$50,000. More than 95 percent of 2005-2006 graduates have found jobs in their career fields or graduate professional programs.

## Bachelor of Science Degrees

Chemical Engineering  
Chemistry  
Civil Engineering  
Computer Engineering  
Computer Science  
Electrical Engineering  
Environmental Engineering  
Geological Engineering  
Geology  
Industrial Engineering  
Interdisciplinary Sciences  
Mathematics  
Mechanical Engineering  
Metallurgical Engineering  
Mining Engineering and Management  
Physics

## Master of Science Degrees

Atmospheric Sciences  
Biomedical Engineering  
Chemical Engineering  
Civil Engineering  
Computer Science  
Electrical Engineering  
Geology and Geological Engineering  
Materials Engineering and Science  
Mechanical Engineering  
Paleontology  
Technology Management

## Doctor of Philosophy Degrees

Atmospheric and Environmental Sciences  
Biomedical Engineering  
Chemical and Biological Engineering  
Geology and Geological Engineering  
Materials Engineering and Science  
Nanoscience and Nanoengineering

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## THE HARDROCKMAGAZINE PRODUCTION STAFF

### Executive Editors

Julie A. Smoragiewicz  
Tim Vottero (Chem84)

### Editor

Mitchell S. Vander Vorst

### Writer

Breanna V. Bishop

### Graphic Design and Layout

Melinda A. Poyourow

### Circulation Assistant

Sharon F. Dominick

The *Hardrock* is published semiannually by the SDSM&T Alumni Association and the South Dakota School of Mines and Technology Office of University and Public Relations. The *Hardrock* is a trademarked name of the SDSM&T Alumni Association. Subscriptions are available free of charge. Submissions of articles, photographs, and artwork are encouraged but will not be returned without a self-addressed, stamped envelope.

For additional information, subscription requests, or address corrections:

**South Dakota School of Mines  
and Technology**  
Office of University and Public Relations  
501 E. Saint Joseph St.  
Rapid City, SD 57701-3995  
(605) 394-2554 • (877) 877-6044  
e-mail: julie.smoragiewicz@sdsmt.edu

**Advertising Sales**  
(605) 394-6081





## School of Mines holds 154th commencement

The School of Mines held its 154th commencement December 16, 2006, and awarded more than 80 associates, bachelor's, master's, and doctoral degrees.

**Clayton Jones** joined the School of Mines as commencement speaker. Jones is chairman, president, and chief executive officer of Rockwell Collins.

Mr. Jones also serves on the Board of Directors of the General Aviation Manufacturers Association (GAMA), the Smithsonian National Air and Space Museum (NASM), and on the Board of Governors

of the Aerospace Industry Association (AIA). In addition, he is a member of The Business Council and the President's National Security Telecommunications Advisory Committee (NSTAC). He is an honorary fellow of the American Institute of Aeronautics and Astronautics (AIAA) and a director of the Unisys Corporation.

**Briana Bicher** (MetE06) and **Justin Wenner**



*Senior class representative speaker **Ms. Briana Bicher** (MetE06)*

(ME06) represented the graduating class. While a student at the School of Mines, Bichler was extremely active on campus, serving as vice president of the Student Association, a Center of Excellence for Advanced Manufacturing and Production (CAMP) student leader, and was elected into the Leadership Hall of Fame in 2006.

During his time at the School of Mines, Mr. Wenner was an active member of the campus community. He served as president of the Student Association, and also was active in a number of clubs and honor societies. He was elected as the 2006



*Senior class representative speaker **Mr. Justin Wenner** (ME06)*



*The School of Mines 154th Commencement was held at the Rushmore Plaza Theatre on December 16, 2006.*

Homecoming King, and was one of five students inducted into the 2006 Leadership Hall of Fame.

The university also honored four alumni with “Distinguished Alumni” awards, given to graduates who have made outstanding contributions in their professions and to the School of Mines. The recipients: **Dr. William Hughes** (EE49), **Ronald Jeitz** (CE69), **Roy Roadifer** (GeolE54), and **Dr. C. Dean Starr** (MetE43).

Citations for the honorees are posted under “Recent Alumni News” at <[www.sdsmt.edu/alumni](http://www.sdsmt.edu/alumni)>.



*Distinguished Alums: **Ronald Jeitz** (CE69), **Roy Roadifer** (GeolE54), **Dr. William Hughes** (EE49), and **Dr. C. Dean Starr** (MetE43).*

### Outstanding recent graduates honored

Five School of Mines alumni were honored as recipients of the 2007 Outstanding Recent Graduate Award during the Engineer’s Week luncheon held February 23.

The Outstanding Recent Graduate program honors graduates who have achieved exemplary career progress and recognition within 10 years of graduation. The program was originated and is sponsored by the Alumni Association and SDSMT Foundation. The individuals selected for this award are considered excellent role models to show current students the importance of continued personal growth in a rapidly changing world.

The 2007 honorees: **Michael Connell** (MetE97), **Jason Green** (IS96), **Corey Haeder**

(CE97), **Troy McVay** (Math96), and **Jennifer Richmond** (EE96).

Citations for the honorees are posted under “Recent Alumni News” at <[www.sdsmt.edu/alumni](http://www.sdsmt.edu/alumni)>.



*Outstanding Recent Grads: **Corey Haeder** (CE96), **Jason Green** (IS96), **Jennifer Richmond** (EE96), **Troy McVay** (Math96), and **Dr. Charles Ruch**. Not pictured: **Michael Connell** (MetE97).*

### Office of Technology Transfer opens

The School of Mines has established an Office of

Technology Transfer (OTT). The OTT, directed by **Dale “Butch” Skillman** (ME73), will assist in all things relating to Intellectual Property (IP): non-disclosures, disclosures, searches, patent applications, licensing, and more. The role of OTT is to enhance each of



***Mr. Dale “Butch” Skillman**  
(ME73)*

these activities by establishing policies, practices and procedures that are widely understood and disseminated amongst those in our community who create new technologies.



The OTT team represents more than 50 years of experience in the technology transfer enterprise.

### Higher Learning Commission Continues School of Mines Accreditation

The Higher Learning Commission of the North Central Association of Colleges and Secondary Schools has voted to continue the accreditation of the South Dakota School of Mines and Technology.

To prepare for the accreditation process, the School of Mines embarked on a two-year self-study process, which aligned with the university's first major strategic planning process since 1989. The self-study leadership team used this opportunity to create a process that was thorough, fair, and useful to the School of Mines' broader efforts to move the institution forward.

The School of Mines has been accredited since 1925.

### New Fossil Joins School of Mines Collection

The South Dakota School of Mines and Technology's Museum of Geology has added a rare specimen to its collection.

**Dr. James Martin** (Geol71), curator of vertebrate paleontology and paleontology program director at the School of Mines, was notified by an amateur paleontologist of a discovery of a fish skull, eroding from rocks along the Missouri River near Chamberlain.

After locating the specimen, Dr. Martin and paleontology graduate students **Lynn Harrell**, of Rapid City, and **Wayne Thompson**, of King George, Virginia, spent two days in excavation, which resulted in a nearly complete specimen



*New Fossil: The fossil Stratodus as it was found.*

of an unusual fish, *Stratodus*. The fish has been found in marine rocks deposited during the end of the Age of Dinosaurs, about 85 million years ago, but few specimens include a complete skeleton such as the one excavated by the School of Mines. The skeleton indicates that this fish had a long, pointed skull armed with hundreds of needle-like teeth and a body that most closely resembles that of an eel.

The public is invited to view the specimen, currently on display in the Museum of Geology.

SOUTH DAKOTA  
**M**  
SCHOOL OF MINES  
& TECHNOLOGY

Institutional  
Self-Study  
2006

# Painting Enters Smithsonian's Hallowed Halls

This March, the Smithsonian's Museum of the American Indian accepted a painting from the School of Mines into their permanent collections.

The painting, "Looking Beyond One's Self", was commissioned by the School of Mines in 1995. Oglala Lakota artist Don Montileaux was given the directive to create a work of art that represented the desire for young American Indians to reach beyond themselves...toward the stars and their visions. The finished piece depicts three American Indians looking beyond the immediate horizon and toward a vision of the future.

The original painting flew aboard the March 1995 STS-67 NASA mission of the space shuttle Endeavour. The Endeavour was also the shuttle

the college setting. The six-week residential program gives students a firm grounding in math, science, English, computers, and life skills.

This year the program attracted 152 students in grades 9-12 and 12 college students. Nearly 70 percent of the students are female, and approximately 85 percent of the students are American Indians, with many of the students as potential first-generation



*Mr. Don Montileaux with the original painting "Looking Beyond One's Self".*

which took the first American Indian astronaut, U.S. Navy Commander John Herrington (Hon03), into space.

In 1996, print number 2/400 was presented to President William Clinton on behalf of the School of Mines' Scientific Knowledge for Indian Learning and Leadership (SKILL) program.

SKILL, which has now transformed into the SD GEAR UP Honors Program, prepares American Indian students to be successful in



*Approximately 35 School of Mines alumni from the Washington D.C. area attended the dedication ceremony at the Smithsonian's Museum of the American Indian.*

college students. Of those students who graduate from the program, virtually 100 percent also graduate from high school, 85 percent attend college, and seven percent enter the military.

Students must apply to enter the program and are selected based on academic achievement and teacher recommendations. Students represent all nine tribes in South Dakota: Cheyenne River, Crow Creek, Flandreau-Santee, Lower Brule, Oglala, Rosebud, Sisseton-Wahpeton Oyate, Standing Rock, and Yankton.

With the entrance of the painting into the Smithsonian's permanent collection, future generations will have the opportunity to hear its message and to look beyond themselves.

To learn more about how you can support the American Indian initiatives at the South Dakota School of Mines and Technology, visit [http://sdmines.sdsmt.edu/SKILL\\_Print](http://sdmines.sdsmt.edu/SKILL_Print).





*"Looking Beyond One's Self" was dedicated at the Smithsonian's National Museum of the American Indian on March 13, 2007.*

### About the artist

Born January 3, 1948, in Pine Ridge, South Dakota, Mr. Montileaux is an enrolled member of the Oglala Lakota Tribe. He began his professional career in 1977, and started

aggressively pursuing his artistic dream alongside his career in 1980.

Primarily a self-taught artist, Montileaux received formal training at the Institute of American Indian Art in Santa Fe, New Mexico, and did an internship under noted artist Oscar Howe at the University of South Dakota, Vermillion. He also credits his personal friend and mentor, the late Herman Red Elk, as his primary artistic influence. Learn more about the artist at [www.montileaux.com](http://www.montileaux.com).

In 1994, the pinnacle of his artistic career was an invitation from the South Dakota School of Mines and Technology SKILL Program, to create a work of art that eventually became a part of the payload aboard the Space Shuttle Endeavour.

Don's work has literally spanned the globe. On March 2, 1995, launched from the Kennedy Space Center, the Endeavour carrying the artwork, orbited the earth 262 times at a mean altitude of 190 nautical miles and speed of 17,500 miles per hour, traveling a total of 6,892,836 miles in a 16 day mission. To view highlights from the STS 67 Mission, visit <http://science.ksc.nasa.gov/shuttle/missions/sts-67/sts-67-day-01-highlights.html>



*L- R: School of Mines President Dr. Charles Ruch, Mr. Don Montileaux, and School of Mines Director of Multicultural Affairs Mr. Bruce Carter pay a visit to Crazy Horse Memorial with "Looking Beyond One's Self" just days before it traveled to the Smithsonian.*



# Incubator Finds Home for Alumnus

Since its grand opening in July of 2006, the Black Hills Business Development Center, also known as the Incubator, has been responsible with assisting entrepreneurs and growing economic development. It is also responsible for bringing a School of Mines alumnus back to Rapid City.

“

There is the potential for collaboration with the School of Mines, new engineering jobs for Rapid City, and new fabrication work for Rapid City machine shops. ”

**Dr. Rob Christiansen**

After graduating from the School of Mines, **Dr. Rob Christiansen** (ME/Phys95) earned master's and doctoral degrees at the University of Utah. After living and working in Salt Lake City for nine years, however, he and his family were looking to move back to Rapid City.

Enter **Dr. Larry Simonson** (EE69), Hoffert



*Hoffert  
Professor  
Dr. Larry  
Simonson  
(EE69)*

Professor of Electrical and Computer Engineering at the School of Mines. A familiar face to alumni, Dr. Simonson mentioned the Black Hills Business Development Center to Christiansen. The outcome of this conversation provided Christiansen with the opportunity he had been looking for — the road back to the Black Hills.

Christensen has worked for Evans & Sutherland, one of the the world's first computer graphics companies, for nine years. The company decided to combine the resources that the Black Hills Business Development Center provided with Christensen's skills and open a research and development office in Rapid City. Christensen's research suite is located in the incubator, where he'll stay for three to five years before leaving the facility and hopefully expanding into the community.

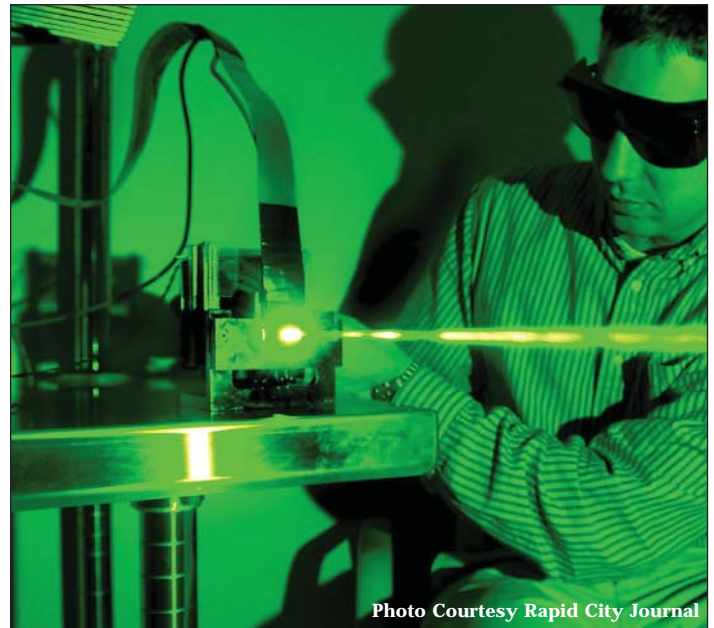
Evans & Sutherland has developed and advanced computer graphics technology for almost four decades. The company makes ultra high-resolution laser projectors that produce images 10 times sharper than high-definition

products for the home. The company also specializes in creating dome projectors for planetariums, which cost upwards of \$1 million. Christensen has recently installed systems such as these in the Griffith Observatory in California and in Fukuoka, Japan.

Christensen's work at his Rapid City office will focus on advancing this technology.

One of the reasons that Evans & Sutherland agreed to open a Rapid City office was because of its proximity to the School of Mines and its supply of quality engineers. In fact, **Aaron Costello** (ME02), recently joined the new office.

According to Christensen, their work has the opportunity to impact the community as a whole.



*Photo Courtesy Rapid City Journal*

***Dr. Rob Christiansen** (ME/Phys95) will use equipment such as this laser to work on improving high- definition laser projection.*

“There is the potential for collaboration with the School of Mines, new engineering jobs for Rapid City, and new fabrication work for Rapid City machine shops,” he said.

There may also be opportunities in the future for other alumni to do what Christensen has done — return to the Black Hills. In fact, he invites any interested School of Mines graduates with experience in optics or opto-mechanics to contact him at (605) 716-0045 or <robchris@es.com>.



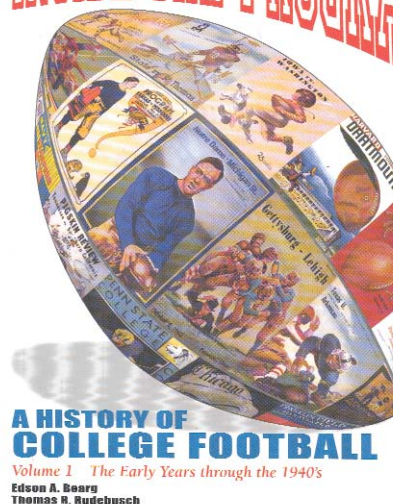


# Book Benefits Student Athletes and Hardrock Club

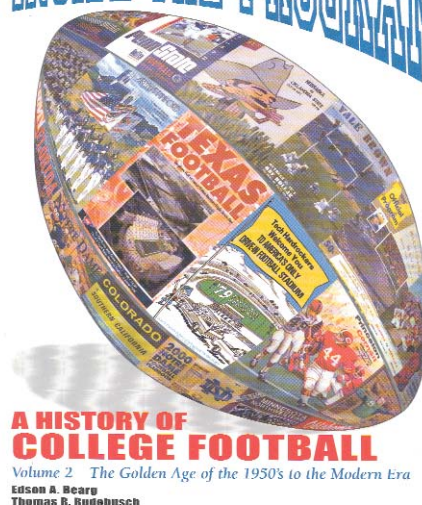
If you are a college football fan or just want to support student athletes and the Hardrock Club at the School of Mines, then there is a book just for you: *Inside the Program — A History of College Football*, written by School of Mines' alumnus **Ed Bearg** (GenE58) and

Hardrock Club Executive Director Tom Rudebusch.

INSIDE THE PROGRAM



INSIDE THE PROGRAM



According to Bearg, the book tells the story of college football through a unique compilation of more than a century of historical and informational game-day programs. Browsing through the easy-to-read, program-laced pages, the reader will gain new insight into the game from the earliest inception of game-day programs in 1873 through modern times. The book shows how players, coaches, and notables looked at the time they made headlines, the way in which yesterday's American football game was played, and what the participants on the field and in the grandstands actually thought, said, and did as great moments in college football history were unfolding.

Bearg has been collecting programs and attending games all over the country for more

than 30 years. His interest in collecting programs began as a young boy in Hiawatha, Kansas, and during his high school years in Pickstown. Both towns placed an emphasis on sports for boys, yet both were quite removed from the exposure of "big time" college football and information was scarce.

"Us small town kids kept every bit of information we could collect about our football teams and heroes," Bearg recalls. Pictures became trading items, and actual game programs were a treasure. This generated my early interest in collecting game programs that has lasted a lifetime.

Rudebusch's lifelong love of football and the chance to help support student athletes at the School of Mines were important factors in his decision to co author the book. Rudebusch also noted that Bearg's loyalty to his alma mater was the impetus behind his participation.

"I remember watching my first football game at South Dakota State in the mid 1960s. It was the annual 'Hobo Day' homecoming game, and I can still recall attending the parade and then going to the game," Rudebusch said. "I have enjoyed the college game since that day, whether it features Notre Dame, the Minnesota Gophers, or my Hardrockers from the South Dakota School of Mines."

“ Us small town kids kept every bit of information we could collect about our football teams and heroes. ”

**Mr. Ed Bearg (GenE58)**

Rudebusch added, "I have enjoyed working on this unique book with Ed Bearg. His loyalty to the School of Mines is unparalleled."

Copies of *Inside the Program — A History of College Football* are now

available to be purchased on line at [www.historyofcollegefootball.com](http://www.historyofcollegefootball.com) or by calling Tom Rudebusch at (605) 394-2601.





# Researchers Unearth the Past



Amid 70-mile-an-hour winds and freezing Antarctic conditions, researchers from the School of Mines recovered the well-preserved fossil skeleton of a juvenile plesiosaur—a marine reptile that swam the waters of the Southern Ocean more than 70 million years ago.

The fossil remains represent one of the most-complete plesiosaur skeletons ever found and is thought to be the best-articulated fossil skeleton ever recovered from Antarctica.

Dr. J. Foster Sawyer (MS Geol90), a recent doctoral graduate of the School of Mines, found the skeleton on Vega Island while working with Dr. James Martin (Geol71), curator of vertebrate paleontology and coordinator of the paleontology program at the School of Mines' Museum of Geology.

The weather and the harsh Antarctic climate made collecting the plesiosaur specimen exceedingly difficult. Weeks of winds exceeding 70 miles an hour hindered the excavation. At the end of the work, icy temperatures turned water to slush before plaster could be mixed to encase the fossil for transportation. The ground was so frozen a digging tool snapped in half during the excavation. Finally, a jackhammer had to be carried up to the site in backpacks along with gasoline, plaster, and water.

The resulting package of plesiosaur remains encased in a protective plaster jacket was too large to carry, so the Argentine air force brought helicopters to the rescue. It took five men to lift the specimen into the chopper, which delivered the cargo to the tent camp on the shores of Herbert Sound. The specimen was later picked up by the Laurence M. Gould, a National Science Foundation-chartered research vessel.

At the Museum of Geology, the reptile was prepared by Michelle Pinsdorf (MS Paleo, Cortlandt Manor, New York) and replicated by Shawna Johnson (MS Paleo, Morton, Minnesota).

After it was prepared in the United States, Dr. Martin said, the specimen was discovered to be the 5-foot-long skeleton of a long-necked (elasmosaurid) plesiosaur. An adult specimen could reach over 32 feet in length. According to Dr. Martin, most of the bones of the baby plesiosaur had not developed distinct ends due to the youth of the specimen.

But the animal's stomach area was spectacularly preserved. Stomach ribs (gastralia) span the abdomen, and rather than being long, straight bones like those of most plesiosaurs, these are forked, sometimes into three prongs. Moreover, numerous small, rounded stomach stones (gastroliths) are concentrated within the abdominal cavity,






**Dr. Martin (Geol71), and Dr. Sawyer (MS Geol90) unveil the plesiosaur to the public for the first time.**

indicating stomach stones were ingested even by juvenile plesiosaurs to help maintain buoyancy or to aid digestion.

"It is a fantastic specimen — certainly one of a kind," Dr. Martin said. "My colleagues and I are mighty pleased to have been able to uncover it."

The skeleton is nearly perfectly articulated as it would have been in life, but the skull has eroded away from the body. Extreme weather at the excavation site on Vega Island off the Antarctic Peninsula and lack of field time prevented further exploration for the eroded skull.

Dr. Martin, Dr. Sawyer, and **Dr. Wayne Thompson** (Ph.D Geol, King George, Virginia) were awarded Department of Defense Antarctica Service Medals for their work on the continent.

The specimen is on display to the public at the School of Mines' Museum of Geology. 



**Dr. Sawyer (MS Geol90) works to recover the plesiosaur under tough weather conditions.**



**Dr. Wayne Thompson (Ph.D Geol, King George, Virginia), Dr. James Martin (Geol71), and Dr. Sawyer (MS Geol90).**



*The plesiosaur skeleton remains on display to the public at the School of Mines' Museum of Geology.*



# Spotlight on M Hill

The last few months have been headline-making for the School of Mines' M Hill. The beloved landmark made the news last fall when Rapid City's Nine Liens Partnership auctioned 370 acres of land on and around Cowboy Hill (more commonly known as M Hill).

The partnership decided to sell the land to use the money to buy out Pete Lien & Sons, a



*The M was built by School of Mines students.*



*Construction of the M in process circa 1912.*

minerals and building materials company.

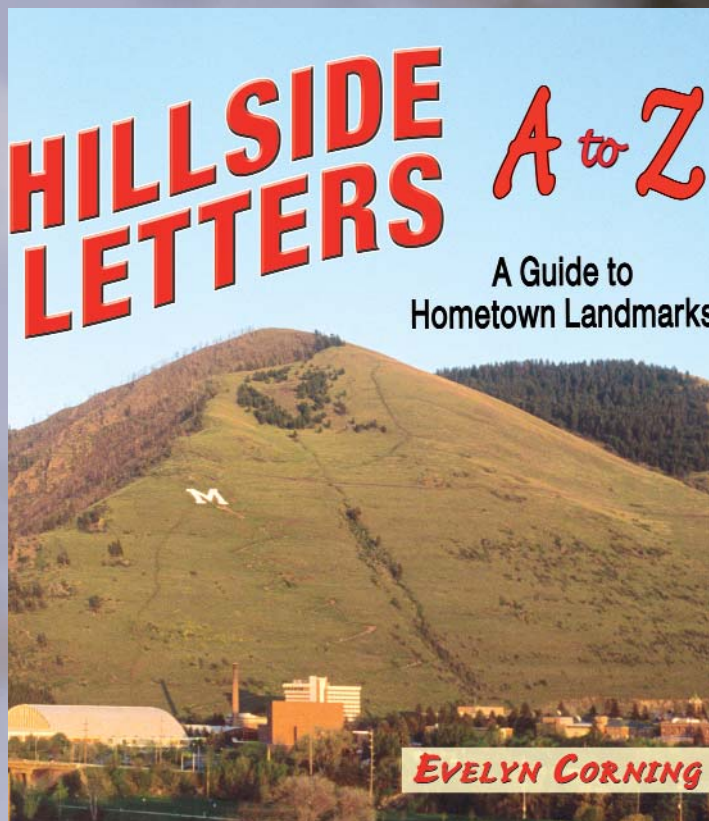
When the auction was announced, public commentary began to pour in. According to city officials, they received more e-mails about M Hill than any other issue. Much of the communication was from School of Mines alumni who didn't want to see development occur near M Hill. Although the "M" is on a separate piece of land owned by the SDSM&T Foundation and was not part of the auction, any development had the possibility of impacting the area around the "M" and thus the Rapid City skyline.

On the day of the sale, only 330 acres ended up on the auction block. The Liens donated 20 acres and sold 20 acres to the City of Rapid City. The area will be known as the Chuck Lien Family Park.

The high bid for the remaining acres, \$2.64 million for the entire area, came from Overlook LLC.

However, Overlook LLC was only interested





in the northern end of the parcel near Interstate 90. They were bidding on the rest of the land on behalf of a private foundation, later identified as the Hanson-Larsen Memorial Park Foundation, created for the late Edna Larsen, a Rapid City and Hermosa resident who attended the School of Mines.

“...the School of Mines traditions...  
are some of the neatest that I encountered.”

**Ms. Evelyn Corning**

Author of *Hillside Letters A to Z*  
*A Guide to Hometown Landmarks*

The goal of the foundation is to keep the 240-acre piece of land as undeveloped as possible.

Attention on M Hill didn't just come from those in the area. A new book, *Hillside Letters A to Z: A Guide to Hometown Landmarks*, features the School of Mines' very own hillside letter. Author Evelyn Corning traveled through the West documenting and researching the hundreds of hillside letters scattered across the landscape.

“When I started the book, I was interested in the impact of the letters on our landscapes” Corning said. “What I found is that they have a much greater impact on our culture and our community.”

According to Corning, M Hill was one of her favorites.

“The letter M is the most predominant of hillside letters,” Corning said. “But the School of Mines traditions — laying plaques and having alumni return to visit the letter — are some of the neatest that I encountered.”

Copies of the book can be purchased at <http://mountain-press.com> and are also available at the School of Mines Bookstore located in the Surbeck Center.



*School of Mines students gather for the annual M Hill whitewashing.*



# School of Mines to Host International Competition

More than 100 teams will gather at the South Dakota School of Mines and Technology May 23-36, 2007 during the SAE Mini Baja West Competition.

The teams — ranging from the United States and Canada to South Africa and France — will give presentations about their cars, and show off their performance during traction, maneuverability, and acceleration events. The Baja cars and drivers will also be put to the test during a four-hour endurance race over rugged terrain that will test the durability of each vehicle.



*The School of Mines Mini Baja car in action at the 2006 SAE Mini Baja West competition.*

The object of the competition is to provide students with a challenging project that involves the planning and manufacturing tasks found when introducing a new product to the consumer industrial market.

Much of the competition will be open to the public for viewing. For more information, visit [www.bajasaesdsmt.com](http://www.bajasaesdsmt.com).



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# Student Spotlight

## Students make phonathon a success

These students helped make the SDSM&T



Adam Shulz at the fall 2006 phonathon.

Foundation's fall 2006 phonathon a success. Their efforts resulted in pledges and contributions that totaled more than \$109,000.

The students: **Kendra Frank** (GeolE, Dickinson, North Dakota), **Josh Green** (ME, Peoria, Illinois), **Lyndsey Penfield** (ME, Olds, Iowa), **Nathaniel Priegnitz** (MetE, Pauls Valley, Oklahoma), **Mitchell Rodriguez** (ME/MetE, Rapid

City), **Aryn Rowe** (IS, Rapid City), **Adam Schulz** (CEng, Emery), **Kathleen Schwabe** (Geol, Merrimack, New Hampshire), and **Corinne Vottero** (IE, Rapid City).

## Students represent School of Mines at SHED Days

The following School of Mines students traveled to Pierre to participate in the state legislature's Students for Higher Education (SHED) Days. The South Dakota Student Federation sponsored SHED Days, held February 5-6. During the trip, students from across South Dakota lobbied the state legislature on behalf of higher education.

The students: **Julie Abrams** (CE, Rapid City), **Jenny Baker** (ChE, Broomfield, Colorado), **Matt Booth** (CE, Rapid City), **Lukazs Dubaj** (Gen, Rapid City), **Mike Grave** (ME, Hartford), **Derek Hackett** (Math/CEng, Madison), **Sean Hayes** (ME, Eagle, Idaho), **Mark Horton** (MetE, Wall), **Melanie Jeppesen** (IS STS, Pleasant Dale, Nebraska), **James Kenney** (IE, Rapid City), **Jon Larsen** (EE, Rapid City), **Joy McClure** (MetE, Rapid City), **Patrick Satchell** (IE, Milford, Nebraska), **Chadd Steffes** (ME, Plevna, Montana).

## School of Mines students receive national scholarships

Two students from the School of Mines have been awarded scholarships from ASM International, the world's largest materials information society. **Cassandra Degen** (MetE, Rapid City) is the recipient of the William Park Woodside Founder's Scholarship, which provides

full tuition of up to \$10,000 for one academic year and a certificate of recognition.

**Deborah Carlson** (MetE, Rapid City) is a recipient of the Outstanding Scholar Award, which provides a \$2,000 award to recognize students who have demonstrated exemplary academic and personal achievements as well as interest and potential in metallurgy or materials science and engineering.

## Engineer's Week chemistry magic show

School of Mines students entertained more than 600 middle and high school students during the Engineer's Week chemistry magic



Melina Bozzetti (Chem, Rapid City) demonstrates what happens when frozen  $\text{CO}_2$  meets room temperature  $\text{H}_2\text{O}$ .

show. The student performers used chemistry principles to make foam cups disappear, create load explosions, freeze racquetballs, and perform other experiments. The show was designed to teach younger students about chemistry and excite them about the field.

The students: **Bill Bailey** (Chem, Rapid City), **Melina Bozzetti**

(Chem, Rapid City), **Robert Cole** (Chem, Rapid City), **Amber DeWeerd** (Chem, Hudson), **Nicholas Evans** (Chem, Dell Rapids), **Kevin Kirschenmann** (Chem, Rapid City), **Bobbie Laurenz** (Chem, Faith), **Jennifer Markoff** (Chem, Rapid City), **Eric Olson** (Chem, Saint Cloud, Minnesota), **Doug Pellatz** (IS, Plainview, Nebraska), **Ashley Rook** (Chem, Rapid City), **Dallas Sommer** (Chem, Rapid City), **Jordan Speidel** (Chem, Watertown), **Cameron Thompson** (Chem, Rapid City), **Channing Thompson** (Chem, Box Elder), **Brent Swisher** (Chem/ChE, Rapid City), **Shannon Junge** (Chem, Rapid City).



# Campus Briefings

## School of Mines professor named ASME Fellow

**Dr. Michael Langerman** (ME72), professor and chair, mechanical engineering, has been named a Fellow by the American Society of Mechanical Engineers (ASME).

The Fellow grade is the highest elected grade of membership in the ASME, a nonprofit professional organization promoting the art, science, and practice of mechanical and multidisciplinary engineering and allied sciences.

## Professor receives prestigious National Science Foundation Award

**Dr. Jennifer Karlin**, assistant professor, industrial engineering, is the recipient of a Faculty Early Career Development (CAREER) Program award from the National Science Foundation (NSF).

The CAREER Award Program offers the NSF's most prestigious awards in support of the early career development activities of teacher-scholars who most effectively integrate research and education within the context of the mission of their organization. Dr. Karlin's proposal, "Colleges of Engineering as Learning Organizations: Implications for Student Intellectual Development," has received funding for five years in the amount of \$531,739.

## Tau Beta Pi headed by School of Mines professor

**Dr. Larry Simonson**, (EE69) Hoffert Professor, electrical and computer engineering, has begun a four-year term as president of Tau Beta Pi, the engineering honor society which supports student chapters at 230

engineering university campuses throughout the United States. It is the largest engineering society in the world with more than 400,000 members living throughout the United States and in approximately 160 countries.

Simonson has served Tau Beta Pi as Chief Advisor for the South Dakota School of Mines Chapter since 1986, District 12 Director since 1994, and Engineering Futures Facilitator since 1990. He was also recognized by Tau Beta Pi as the 2002 National Outstanding Advisor.

## Employers recruit students during career fair

Nearly 90 companies from across the country came to campus February 13 to recruit School of Mines students for full-time employment and internships. This was the largest Spring Career Fair



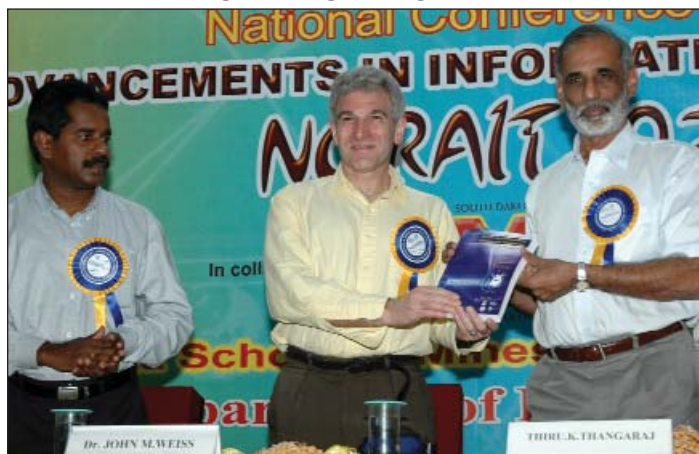
in the university's history.

Within six months of graduation, 95 percent of 2005-2006 School of Mines graduates found work in their career fields or are attending graduate or professional programs. Those that entered the workforce received average starting salaries of nearly \$50,000. In addition, nearly 80 percent of graduates had relevant work experience through co-ops and internships, which increased their marketability to employers.

"The strong interest by employers in our Career Fair demonstrates that our graduates are in high demand by industry," **Darrell Sawyer**, Career Center director, said. "Even though we're a small school and far away, companies spend considerable resources and time to come here. That speaks for itself and industry's high regard for the School of Mines."

## Professor represents School of Mines at Indian conference

**Dr. John Weiss**, professor, mathematics and computer science, represented the School of Mines at the National Recent Advancements in Information Technology Conference held February 9-10 at the Sri Ramakrishna Engineering College (SREC) in



Coimbatore, India. Dr. Weiss presented a one-day workshop on Digital Image Processing, and then gave the keynote address at the conference. The School of Mines has a memorandum of understanding with SREC, which allows for the exchange of staff and students.





**Mr. Casey Allen** (ME94), former research scientist II, Advanced Materials Processing and Joining Laboratory, received \$9,698 from Ford Research and Advanced Engineering for the project, "Refill Friction Spot Welding of Thin Aluminum Sheets - Project 2."



**Mr. William Arbegast**, director, advanced materials processing and joining laboratory (AMP), and instructor, materials and metallurgical engineering; and **Dr. Anil Patnaik**, assistant professor, civil and environmental engineering, received \$10,000 in additional funding from the National Science Foundation for the project, "Friction Stir Processing Industry/University Cooperative Research Center."

Mr. Arbegast also received \$65,000 from the Lockheed Martin Corporation for the project, "Phase 1: Preliminary Investigation into the use of Friction Stir Welding (FSW) and Friction Stir Spot Welding (FSSW) as a Mechanical Fastener Replacement Technology for Multiple Rocket Launch (MRLS) Structures and Components," \$40,001 from the Friction Stir Processing Industry/University Cooperative Research Center Memberships for the project, "Effects of Defects in Friction Stir Welds," \$35,000 in additional funding from the Friction Stir Processing Industry/University Cooperative Research Center Memberships for the project, "Intelligent Process Control System Algorithms for Aluminum and Steel Friction Stir Welding," and \$40,500 from the Boeing Company for the project, "Boeing Phase II Titanium Friction Stir Welding Process Development."

**Dr. Sangchul Bang**, professor, civil and environmental engineering, received \$1,017,000 from the United States Department of Transportation - Federal Highway Administration for the project, "Quality Base Material Produced Using Full Depth Reclamation on Existing Asphalt Pavement Structure."



**Dr. David Chaiko**, deputy director, Center for Accelerated Applications at the Nanoscale, received \$9,316 from the Pacer Corporation for the project, "Surface Treatment Research Program."

**Dr. Shawn Decker**, director, Center for Accelerated Applications at the Nanoscale, received \$585,000 in additional funding from the South Dakota Board of Regents for the project, "Center for Accelerated Applications at the Nanoscale - Year Three." Dr. Decker also received \$10,885 from the Pacer Corporation for the project, "EPSCoR Graduate Research & Development Assistantship Program."



**Dr. David Dixon** (ChemE78), chair and professor,

chemical and biological engineering, received \$500,000 from the South Dakota Board of Regents for the project, "Center for Bioprocessing Research and Development."

**Dr. Edward Duke**, manager of analytical services, Engineering and Mining Experiment Station, received \$403,000 in additional funding from NASA for the project, "South Dakota Space Grant Consortium."



**Mr. Richard Farley** (ChemE69), research scientist IV, Institute of Atmospheric Sciences, and **Dr. Palloor Sundareshwar**, assistant professor, atmospheric sciences, received \$275,000 from the United States Department of Commerce - National Oceanic and Atmospheric Administration (subaward from Western Research Alliance Foundation) for the project, "Great Plains Center for Atmospheric and Human Health."

**Dr. Sherry Farwell** (Chem66), research scientist IV, Institute of Atmospheric Sciences, received \$88,297 from the United States Department of Defense - Dugway Proving Ground for the project, "Characterization of Barrier Membranes for Their Perm-Selective Transmission of Water Vapor and Gaseous Proxy Chemical Warfare Agents."



**Dr. Kenneth Han**, former dean, graduate education, received \$40,500 from the National Science Foundation for the project, "Graduate Research Fellowship Program."



**Dr. John Helsdon**, professor, Institute of Atmospheric Sciences, received \$100,000 in additional funding from NASA for the project, "3-D Modeling Studies of Lightning-Produced Nitric Oxide with an Explicit Lightning/Electrification Model."

**Ms. Carrie Herbel**, museum and collections manager, received \$58,300 from the United States Department of Interior - National Parks Service for the project, "Provide Quality Paleontological Educational Experience at Pig Dig for the 2006 Field Season and 2006/2007 Academic Year."



**Dr. Jon Kellar** (MetE84), chair and professor, materials and metallurgical engineering, and **Dr. Keith Whites** (EE86), professor and Steven P. Miller chair, electrical and computer engineering, received \$224,095 in additional funding from the South Dakota Department of Tourism and State Development



(subaward from South Dakota State University) for the project, "The 2010 Initiative: Science-Based Leadership for South Dakota."

**Dr. Scott Kenner** (CE77), chair and professor, civil and environmental engineering, received \$114,744 from the United States Environmental Protection Agency - Belle Fourche River Watershed Partnership (subaward from RESPEC) for the project, "Belle Fourche River Watershed Management and Project Plan Segment III." Dr.

Kenner also received \$9,024 in additional funding from the United States Department of Defense - United States Army Corps of Engineers for the project, "Computer Modeling of Segment 7 of the Missouri River to Study Sediment Transport Relationships Relevant to Endangered Species Habitat Restoration."

**Dr. Carter Kerk**, associate professor, industrial engineering, and **Dr. Jennifer Karlin**, assistant professor, industrial engineering, received \$10,749 from the Material Handling Industry of America (MHIA) for the project, "Lean Ergonomics - Material Handling Equipment Solutions - Phase 1."

**Ms. Jolie McCoy**, director, counseling/student ADA services, received \$75,000 in additional funding from the United States Department of Health and Human Services for the project, "School of Mines Campus Suicide Prevention Program (CSPP)."

**Dr. Todd Menkhaus**, assistant professor, chemical and biological engineering, received \$24,190 from the State of South Dakota - South Dakota Board of Regents for the project, "Governor's 2010 Individual Research Seed Grant Award."

**Dr. Thomas Montoya** (EE87), assistant professor, electrical and computer engineering, received \$25,617 from the State of South Dakota - South Dakota Board of Regents for the project, "Governor's 2010 Individual Research Seed Grant Award."

**Dr. Gautam Pillay**, vice president, research and professor, chemical and biological engineering; **Dr. Kellar**; **Dr. Umesh Korde**, associate professor, mechanical engineering; **Dr. Hao Fong**, assistant professor, chemistry; **Dr. Haiping Hong**, research scientist III, materials and metallurgical engineering; **Dr. David Boyles** (Chem78), professor chemistry;

**Mr. Arbegast**; **Dr. William Cross** (MetE84), associate professor, materials and metallurgical engineering; **Dr. Lidvin Kjerengtroen**, professor, mechanical engineering; and **Dr. Dana Medlin**, associate professor, materials and metallurgical engineering, received \$1,920,000 from the United States

Department of Defense - Air Force Research Laboratory for the project, "Lightweight and Novel Structures for Space."

**Dr. Pillay**, **Dr. Jan Puszynski**, professor, chemical and biological engineering, and **Dr. Jacek Swiatkiewicz**, instructor and research scientist II, chemical and biological engineering, received \$596,163 in additional funding from the United States Department of Defense - Armament Research, Development, and Engineering Center (ARDEC) for the project, "ARDEC FY 2006 Program Plan."

**Dr. Pillay** and **Dr. James Sears**, director, Additive Manufacturing Laboratory, received \$420,130 in additional funding from the United States Department of Defense - Armament Research, Development, and Engineering Center (ARDEC) for the project, "ARDEC FY 2006 Program Plan."

**Dr. Pillay**; **Mr. Allen** (ME94); **Dr. Medlin**; **Dr. Hong**; **Dr. Farwell** (Chem66); **Dr. Teresa Corbin** (Chem80), research scientist II/computer programmer; **Dr. Daniel Dolan**, professor, mechanical engineering, and co-director, Center of Excellence for Advanced Manufacturing and Production (CAMP); **Dr. John Weiss**, professor, mathematics and computer science; **Dr. Boyles**; **Dr. Fong**; **Dr. Whites** (EE86); **Dr. Robb Winter**, professor, chemical and biological engineering; and **Dr. Karim Muci**, associate professor, mechanical engineering, received \$3,196,000 in additional funding from the United States Department of Defense - Army Research Laboratory for the project, "Advanced Materials and Processes for Future Combat Systems."

**Dr. Pillay** also received \$753,839 from the United States Department of Defense (subaward from Alion Science and Technology Corporation) for the project, "Agile Combat Support Systems Wing (ACSS) Cross-Cutting Weapons Solutions Aging Aircraft Structural Repair Facility Study."

**Dr. Puszynski** received \$37,500 in additional funding from the United States Department of Defense (subaward from University of Minnesota) for the project, "Processing Behavior of Nanoenergetic Materials."

**Dr. Rajesh Sani**, assistant professor, chemical and biological engineering, received \$216,275 from the National Science Foundation (subaward from Montana State University) for the project, "Biochemical Cycling of Heavy Metals in Lake Coeur d'Alene Sediments: the Role of Indigenous Microbial Communities." Dr. Sani also received \$18,597 from the State of South Dakota - South Dakota Board of Regents for the project, "Governor's 2010 Individual Research Seed Grant Award."

**Dr. James Sears** received \$100,000 from International Titanium Powder (ITP) for the project,





"Development of Low Cost Titanium Applications by the Armstrong Process."

**Dr. Steve Smith**, associate professor, nanoscience and nanoengineering, received \$29,620 from the State of South Dakota – South Dakota Board of Regents for the project, "Governor's 2010 Individual Research Seed Grant Award."

**Dr. Smith; Dr. Andre Petukhov**, chair and professor, physics; and Dr. Whites received \$423,802 from the National Science Foundation for the project, "MRI: Design and Development of a Femtosecond Apertureless Near-field Microscope."

**Dr. Larry Stetler** (Geol79), associate professor,



geology and geological engineering, received \$50,000 from Pennington County for the project,

"Determining Landuse Compatibility from Development Along Highway 79 in the Hermosa NW Quadrangle, South Dakota."

**Dr. Andrea Surovek**, assistant professor, civil and environmental engineering, received \$21,679 from the State of South Dakota – South Dakota Board of Regents for the project, "Governor's 2010 Individual Research Seed Grant Award."

**Dr. Karen Updegraff**, research scientist I, Institute of Atmospheric Sciences, received \$28,796 in additional funding from the United States Department of Energy (subaward from Montana State University) for the project, "Big Sky Regional Carbon Sequestration Partnership – Phase II."

**Dr. Karen Whitehead**, provost and vice president, academic affairs, received \$82,500 in additional funding for the project, "Wise Start: Increasing Opportunities for Native American Women in STEM Programs."



**Dr. Robb Winter** received \$162,054 from the National Science Foundation for the project, "Intergovernmental Personnel Act (IPA)

Assignment."

**Dr. Patrick Zimmerman**, director and professor, Institute of Atmospheric Sciences, received \$79,625 in additional funding from the National Science Foundation for the project, "He Sapa Oyate: Geoscience Community at the Heart of Everything That is (OEDG Track 2)." Dr. Zimmerman also received \$146,567 from C-Lock Inc. for the project, "C-Lock – SDSM&T PA Contract for Patrick Zimmerman."



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## Invent Tomorrow

## Rapid City, South Dakota

The Rapid City Exchange Club, with help and inspiration from the newly formed SDSM&T Veteran's Club installed an Honor Field around the campus Memorial Arch during the first day of classes last fall. Fifty-five American flags were installed around the Arch perimeter to honor the School of Mines students with military affiliation and as a display of patriotism. The Rapid City Exchange Club members include School of Mines alumni **Mike Alley** (GeolE73), **Gary Hamilton** (ME73), **Jeff Nelsen** (ME91), **Mark Miller** (IS99), and **Tim Vottero** (Chem84). The Veterans Club was established with the main focus of assisting School of Mines students with any military affiliation, including family and friends of deployed students.



*Honor Field of flags around campus Arch*



*Earl (ME51) and Arletta Dailey*

Many alumni and friends celebrated at **Earl Dailey's** (ME51) 80th Birthday Party a few days before his official September 6, 2006 birthday last September over the Labor Day weekend with a gathering at West Hills Village. Earl and Arletta were serenaded

by their grandchildren, including two who are current School of Mines students — **Barry Longden** (CSc/Math) Rapid City, and **Sam Lane** (ChemE). Fort Collins, Colorado. Earl is a Past President and a longtime active member of the Alumni Association.

## Fleetwood, Pennsylvania

**Dean Starr** (MetE43) helped arrange a greeting party for the traveling **Dr. Larry Simonson** (EE69) on a Sunday afternoon, September 10, 2006, in Fleetwood, Pennsylvania. Dean emailed that "Professor Simonson is a wonderful guy. We had a good time and the restaurant turned out to be satisfactory to all. And of course we got a very good review of what is going on at the campus." While on the east coast, Larry also visited former student and current Kansas Fourth Congressional District Congressman **Todd Tiahrt** (Ex72). Todd was also a Delta Sig while at the School of Mines. Thanks to everyone around the country who help host Larry and others that travel on behalf of School of Mines.



*Chi-Yi Hsiung (M.S. EE70), Gene McKay (MetE66) and Pat McKay, Dean Starr (MetE43), Mark Olsen (ChemE88) and Irene Widmayer, and Ken Corey (EE81).*



*Kansas Representative Todd Tiahrt (Ex72)*



## M-Week and M-Day 2006

With M-Week 2006 at its peak, **Doug Aldrich** (ChemE62) ascended to the honors as Alumni President, marking the 73rd anniversary year of the SDSM&T Alumni Association. Doug and wife Karolyn live in Thornton, Colorado, where Doug is President of Aldrich & Associates, a facilities and laboratory consulting company. Doug worked for Dow Corning previously in Michigan for 38 years, 20 in technical/management positions, and 18 in facility management. President Aldrich joins new Alumni Board members President Elect **Marlene Nelson** (ME74), **Scott Rausch** (EE75), **Dale Skillman** (ME73), **Nayyer Syed** (Geol94), **Gene Woodle** (ChemE70), and **Barb Dolan** (CSC87).



Immediate Past President **Bloom** (MetE63) and President **Ruch**



President **Aldrich** (ChemE62) finds the '62 plaque on M Hill

Many thanks go to outgoing Board members **Mike Alley** (GeolE73), **Vernon Bump** (GeolE61), **M.R. Hansen** (CE69), **Mark Ingalls** (CSC92), and **Jamie Lembke** (ChemE02) for representing the School of Mines and our Alumni Association during their years on the Board. Last, but not least, special thanks go to outgoing Alumni President **Everett Bloom** (MetE63) for his focused and friendly leadership, his tremendous Tennessee hospitality, and his welcome wisdom in guiding the Alumni Association this past year. The Association expresses our sincere appreciation to both Everett and Carol Bloom for their friendship and hospitality.



King **Wenner** (ME ) **Lemmon**, and Queen **Baker** (ChemE) **Broomfield**, Colorado

The M-Day tradition began in 1912 when a large "M" measuring 112'x67' constructed on Cowboy Hill attracted attention and excited people's interest in the School of Mines. This year's M-Week celebration began with the M Hill Black List crew cleaning the "M" on Sunday, September 24, 2006 following the Senior/Frosh Picnic at Dinosaur Hill. Students elected **Jenny Baker** (ChemE) Broomfield, Colorado Homecoming Queen and **Justin Wenner** (ME)



**Sharon Zeller**, **Carol Bloom**, **Everett Bloom** (MetE63), **Doug Aldrich** (ChemE62), and **Tom Zeller** (ME70)



Lemmon, as Homecoming King during the Coronation. Friday's picnic was a Fiesta theme, complete with plenty of sombreros, beanies, and seniors hats. In recognition of his fourth year at the School of Mines, the Alumni Association sponsored a Senior Hat for School of Mines President Chuck Ruch (Chem) too.

Saturday's M-Day schedule included a well-attended parade; the Homecoming football game against Black Hills State; cross country meet, and volleyball match; and the third annual Hardrock Hall of Fame induction banquet (see <[www.sdsmt.edu/athletics/halloffame.html](http://www.sdsmt.edu/athletics/halloffame.html)>). Past President **Tom Zeller** (ME72) and Sharon Zeller arrived for the parade with a well-equipped black Cadillac to chauffeur this year's Alumni President. Unfortunately, Black Hills State Football team's scoring included a touchdown by the offense, defense, and special teams in their 47-0 shutout of the Hardrockers on M-Day.

Sunday's unseasonably warm start of October greeted foursomes at the fifth annual Student Alumni Connection (SAC) golf tourney and picnic. Roughly 40 students, staff, faculty, and alumni joined the fun. The team of **Darin Beaudoin** (ME Dickinson, North Dakota), **Chandler Caldwell** (Met Thornton, Colorado), **Brandon Kadrmas** (ME Dickinson, North Dakota), and **Brad Schaack** (ME Vermillion), won the 9-hole tourney with a team score of seven under par. Special thanks go to SAC President **Emily Kolberg** (Geol Lincoln, North Dakota), Vice President **Cory Shattuck** (EE Mitchell, South Dakota), and the other SAC members for organizing the event.



*Darin Beaudoin (ME Dickinson, North Dakota), Chandler Caldwell (MetE Thornton, Colorado), Brandon Kadrmas (ME Dickinson, North Dakota), and Brad Schaack (ME Vermillion).*

## Chelmsford, Massachusetts

The 'traveling alumnus' **Dr. Larry Simonson** (EE69) was in the Boston, Massachusetts area on October 21, 2006, to meet with alumni and bring news from campus. Skip's Restaurant in Chelmsford provided the backdrop for this gathering, and as usual, Larry provided a warm greeting and informative update for all attending. Thanks to all who helped arrange and greet Dr. Simonson in his travels.



*Sandy and Dennis Krause (EE68), Bruce Kraft (ChemE76), Dorothea Hofstadter, Scott Reilly (MinE92), Rob Uttecht (CSc95), Bob Hofstadter (EE67), Stan Barbas (EE58), Carmen Brick, Bill (EE/CSc90) and Xuan Campbell (CSc/Math 90) with sons Nathan and Anthony, Warren Germer (EE65), and Todd Brick (EE86)*

## Family Weekend 2006

In 1959, a \$440,000 men's dormitory complex was named in honor of two faculty members who had



*Nadine and Dan Dake (CE55)*



long been directly involved with student life. The west wing, named March Hall, honored **Guy March** (EE22) and the east wing, named Dake Hall, honored **Earl Dake** (CE24). Last fall, family members and friends remembered the March and Dake legacy at a ribbon cutting for the new March Dake Plaza, (see <<http://sdmines.sdsmt.edu/mdplaza>>). Nadine and **Dan Dake** (CE55), Earl and Grezelda Dake's daughter-in-law and son, attended from Utah to represent the Dake family. **Don Thorson** (CE44), Guy and Gail March's son-in-law, visited earlier in the week and conveyed a special note of remembrance via the Alumni Office.



**Don Thorson** (CE44)

Past Alumni Presidents **Jerry Brown** (CE65) and **Paul Gnirk** (MinE59) shared stories and memories of March and Dake. The Student Project Team of **Naomi Fossen** (CE03), Frederick Hartmann, **Brandy Pelton** (CE06), **Nick Rogakis** (CE Fort Collins, Colorado), and **Fanariot Sefa** (ChemE Albania), was also recognized. To ensure that Guy March and Earl Dake's legacy to students and campus continues, the March Dake Plaza provides an outdoor lounge for future students and everyone to enjoy, including tables and benches, a barbeque grill, and a great view of the surrounding hills.

During the same Family Weekend event family and friends of **Trent Matt** (ME) gathered to remember the loss of their son and brother. Parents Darlene and Marion Matt were joined by brother **Shane Matt** (CE96), several Triangle Brothers, and others in honoring the memory of Trent Matt. Trent was a 21-year-old junior Mechanical Engineering student from Philip who died in a tragic car accident in January 2005. **Chad Nienhueser** (CE), who was a



**Shane Matt** (CE96) (left) with his Triangle brothers and parents (seated)

22-year-old senior Civil Engineering student from Sidney, Nebraska, was killed in the same accident.

Triangle Fraternity's School of Mines Chapter has a memorial webpage for both Trent and Chad linked from their homepage at <<http://triangle.sdsmt.edu/links.html>>. The Matts and others provided support to establish a special bench and other tables near and within the March Dake Plaza in memory of Trent. Previously in 2005, the School of Mines student chapter of the American Society of Civil Engineers (ASCE) renamed its scholarship the Chad Nienhueser Memorial Scholarship in honor of Chad and his involvement in the organization as a member and past president.

## Reno, Nevada

This year's 112th Northwest Mining Association conference was held in Reno, Nevada, instead of in its longtime home of Spokane, Washington. The Alumni Association sponsored a social on December 6, 2006, at John Ascuagas Nugget in Sparks for attending alumni and guests. School of Mines Dean



**Dave Shaddrick** (Geol71), **Barbara and Russ Grunwald** (Geol64), **Maury Fuerstenau** (MetE55), and **Paul Gnirk** (MinE59)



#### Did You Know?

To the Lakota, this harsh and desolate landscape was known as “mako sica,” meaning “land bad.” Early French trappers similarly described the area as “bad lands to travel across.” Today, geologists consider all the places in the world with similar topography and formation badlands.

— National Park Service U.S. Department of the Interior  
[www.nps.gov/badl](http://www.nps.gov/badl)





Photo courtesy of Nick Waters (CE06)  
[www.nickwatersphotography.com](http://www.nickwatersphotography.com)

The Hardrock Spring 2007



of Engineering Duane Abata and Mining Engineering and Management Program Director **Shashi Kanth** (M.S. MinE93) joined Alumni Executive VP **Paul Gnirk** (MinE59) and Director **Tim Vottero** (Chem84) for the event. **Dave Shaddrick** (Geol71) advanced his perfect attendance at this annual social to a singular feat.

## San Francisco, California

Several San Francisco area alumni and friends gathered for a holiday fiesta and dinner at Pedro's Restaurant & Cantina in Santa Clara on December 8, 2006. A few stayed later to share stories about days-gone-by at SDSM&T. Special thanks go to **Anita Freeman** (EE76) for her help and hospitality. Also, apologies go to **Madhukar "Duke" Tallam** (M.S. EE84) who made it to Pedro's, yet did not connect with our group. We look forward to the next event when others who missed this impromptu gathering can attend too.



**Paul Gnirk** (MinE59), **Anita Freeman** (EE76), **Bill Bohannon** (ME52) and **Jean, Kailash Pradhan** (M.S. MES05), **Tim Vottero** (Chem84), and **Carol and Larry Truhe** (ME67)

## Pierre, South Dakota

Attracting more than 50 alumni and a record breaking 81 people total, the 12th Annual SDSM&T Alumni Tailgate Party in Pierre on January 13, 2007, was a benchmark event for alumni get-togethers to start the new year. The planning committee worked through several meetings to re-design the party plan, including the fifth annual chili/soup contest and the new Grubby's Gastronomic Gourmet (G.G.G.) contest. Alumni arrived laden with crock pots, platters, and plates to enter School of Mines-inspired culinary delights into the cooking contests. It was also a special day for **Vern Bump** (GeolE61)

and **Nayyer Syed** (Geol94) as it was their birthday. With NFL playoff games and betting boards in the background, alumni and all bellies full with the many contest entries, and the entire group updated on campus activities, **Dr. Paul Gnirk** (MinE59) and **Steve Pirner** (CE72) officiated the Tailgate half-time



*The 12th Annual Pierre Tailgate Gang*



*Birthday Boys **Bump** (Geol61) and **Syed** (Geol94)*



***Dr. Kenner** (CE77) addresses the group*





**Steve Pirner** (CE72), **Al Berreth** (CE76), **Jim Goodman** (GeolE71), and **Joe Vig** (CE71)

show by awarding an assortment of door prizes too numerous to mention. **Dr. Scott Kenner** (CE77) and **Tim Vottero** (Chem84) shared news from campus. All-in-all it was one of the best events of the past twelve years. A "Photo Album" including a brief birthday video and detailed "Write-up" including the contest winners are posted for your enjoyment under "Recent Alumni News" via <[www.sdsmt.edu/alumni](http://www.sdsmt.edu/alumni)>.

### 50th Annual Alumni President's Dinner

On the heels of Valentines Day, this year's 50th Annual Alumni Presidents Dinner warmed the hearts of alumni, students, faculty, and friends, including our 2007 International Alumni President **Dr. Doug Aldrich** (ChemE62, M.S. ChemE65, DHL Hon01) on February 17, 2007. Doug is the fifty-ninth Alumni President since the Alumni Association began in 1934, and his service to the School of Mines spans decades.

Hailing from Sioux Falls, he earned his Bachelor's and Master's Degrees in Chemical Engineering from School of Mines. An honorary doctorate in 2001 marked the special bond Doug shares with his alma



President **Doug Aldrich** (ChemE62) with **Tim Vottero** (Chem84)



Alumni Presidents in attendance: **Paul Gnirk** (MinE59), **Jerry Brown** (CE65), **Earl Dailey** (ME51), **Tom Zeller** (ME70), **Everett Bloom** (MetE63), **Larry Pearson** (ME72), **Ken May** (CE61), **Glenn Barber** (CE60), and **Doug Aldrich** (ChemE62)

mater. During Doug's career with Dow Corning, his record of recruiting, hiring, and advising students from the School of Mines remains unparalleled to this day. A prolific author, speaker, and volunteer, Doug Aldrich's commitment to the organizations he supports is reflected in numerous articles, addresses, and activities. Currently the owner and principal of Aldrich Associates in Thornton, Colorado, Doug's 40 plus years of industry, facility, and service experience make him uniquely qualified to "...advance the interests, influence and reputation ..." of our alma mater.

A note of appreciation goes to the eight Past Alumni Presidents in attendance, and to the many who have served our Alumni Association over the years. Special thanks also go to this year's



The Drama Club Curtain Call: **Leo Buzalsky** (CEng Amidon, North Dakota), **Amanda Prines** (IS Rapid City), **Steve Malsam** (CEng Aberdeen), **Brittany Snyder** (Gen Rapid City), **Jason Neitzert** (CEng Garretson), **Justine Miller** (GeolE Danbury, Wisconsin), **Bob Faubert** (Drama Director), and **Leslee Moore** (Gen Rapid City)



# Area Meetings

entertainment — by the School of Mines Drama Club. Photos and more from this event are posted in attachments found under “Recent Alumni News” via the <www.sdsmt.edu/alumni> webpage.

## Front Range, Colorado

Several events in the Denver and Colorado Springs, Colorado areas brought warmth to an otherwise snowy February. From the Class of 1959 and Friends Tailgate Party, to a new alumni chapter in Colorado Springs, to the 2007 Annual SME Meeting and Exhibit, more than 75 School of Mines alumni gathered recently from across the region and beyond at these events in Colorado.

A hardy group of alumni from the Class of 1959 were joined by Alumni President **Doug Aldrich** (ChemE62) and others in Lakewood, Colorado (Feb. 24). Thanks go to **Landy Stinnett** (GeolE59) for taking the lead. Then a newly formed chapter in Colorado Springs (Feb. 24) enjoyed dinner and news from campus thanks to the special efforts of SDSM&T Foundation Regional Representative **Jill Nelson** (MinE82) and Assistant to the Provost for Development **Dr. Larry Simonson** (EE69).

Finally, more than 75 students, faculty, alumni, and friends were greeted by Alumni Association Executive VP Dr. **Paul Gnirk** (MinE59) and Director



*Denver Tailgate Party: **Tim Vottero** (Chem84), **Ed Tegland** (GeolE59), **Sherwin Artus** (GeolE60), **Landy Stinnett** (GeolE59), **Paul Gnirk** (MinE59), **Jim Russell** (EE69), **Jan Matousek** (MetE59), **Mel Glerup** (GeolE58), **Jack Goth** (MetE50) and **Ree Goth** (sitting); not pictured: **Doug Aldrich** (ChemE62) and **Brian Goetsch** (ME98)*

**Tim Vottero** (Chem84) for the annual SME Alumni Social. With lyrics in hand, everyone sang the Engineer’s Song proclaiming “... we are the engineers ...” for all others to hear. Thanks go to everyone who made these Mile High events fun! To



*One table of four in Colorado Springs: (sitting) **Jill Nelson** (MinE82), **Larry Schulte** (EE82), **Dale Brown** (EE83) and **Lora, Shari and Joe Kovarik** (MetE68), and **Dick Logue** (CE66); (standing) **Jim Russell** (EE69) and **Larry Simonson** (EE69)*



*School of Mines Booth at the SME Exhibit: (front) **Tim Vottero** (Chem84), **Matt Sudbeck** (MEM Parkston), **Collin Rogers** (MEM McKinleyville, California); (back) **Tyler Adler** (MEM Deadwood), **Shashi Kanth** (M.S. MinE93), **Martin Ree** (MEM Sheridan, Wyoming)*



*Theta Tau actives (left) **Collin Rogers** (MEM McKinleyville, California), and (right) **Craig Johnson** (MEM Baltic) with Alumni President **Doug Aldrich** (ChemE62)*



view more photos and brief videos from all the events, look under “Recent Alumni Events” at <[www.sdsmt.edu/alumni](http://www.sdsmt.edu/alumni)>.

## Vermillion, South Dakota

Valiant Vineyards Winery at the Buffalo Run Resort in Vermillion, South Dakota, welcomed several alumni, spouses, and guests on February 16, 2007. Alumnus and Valiant Vineyards winemaker **Carson Merkwan** (ChemE05) led a guided tour of the winery, including the Barrel Room, after Alumni Director **Tim Vottero** (Chem84) and Foundation Regional Development Officer **David Gnirk** (ME74) gave a campus update. Special thanks go to hosts and owners of Valiant Vineyards, Sherry and Eldon Nygaard for their special hospitality and a Happy



*In the Barrel Room: **David Gnirk** (ME74), **Jake Colvin** (Phys03) and **Melissa**, **Chris Wortmann** (CE98) and **Holly**, **Carson Merkwan** (ChemE05) (in back), **Lyla Gukeisen**, **Diane** and **David Bushong** (ChemE80), **Fred Hornstra** (EE60) and **Ila**, **Tim** (CSC87) and **Sandi Shumaker** (Math89), **Jim Bauer** (Hon03), **Chuck Gukeisen** (GenE56), **Jonathan** and **Tim Vottero** (Chem84); not pictured: **Courtney Merkwan** and **Tami Vottero***



***Wayne Reinmuth** (EE49) and **Lila** with **David Gnirk** (ME74)*

Birthday wish goes to “Lady Dianne” who took such good care of our group that evening. Learn more about South Dakota’s First Winery at <[www.buffalorunwinery.com](http://www.buffalorunwinery.com)>.

## Sioux Falls, South Dakota

Grubby was spotted all dressed in green for the Sioux Falls Area Spring Banquet on St. Patty’s Day, March 17, 2007. Chef Dominique’s Catering and Banquet Facility prepared a wonderful buffet and the crowd enjoyed the company and camaraderie. The program and entertainment was skillfully provided by Alumni Association Executive VP **Paul Gnirk**



*Alumni at Sioux Falls Spring Banquet: **Paul Gnirk** (MinE59), **Bill Davidson** (ME82), **Harlan Meyer** (CE44), **Marty Jackley** (EE92), **Jim Belbas** (MetE90), **Jason Cook** (Chem91), **Harvard Schulz** (CE65), **Chad Gortmaker** (ME97), **James** (IE91) and **Kerry Larson** (IE91), **Dean Herll** (CE92), **Darin Tille** (ME99), **Keith Beck** (EE90), **Melissa Reis** (Chem97), **Karla Ruhoff** (MetE92), **Jerry Zutz** (GeolE84), **Neil Nerison** (ME58), **Rick Ames** (ME90), **Eric Thompson** (CE93), **Dave Gnirk** (ME74), and **Tim Vottero** (Chem84)*

(MinE59), Foundation Regional Development Officer **David Gnirk** (ME74), and Director **Tim Vottero** (Chem84). The group sang the Engineer’s Song (sort of) and will be challenged to perform again some time in future. Thanks go to **Dean Herll** (CE92) and the entire legacy of Sioux Falls chapter officers for their efforts through the years.



## 1930's

Mary Eileen, wife of **Lester Corrington** (EE38) passed away several of months ago after an illness of more than two years. Married in 1940, we enjoyed more than sixty-five years of a very happy married life. "I retired for the most part in 1972, and we spent many years traveling in all fifty of the United States and to about thirty other countries. We drove to Alaska on the old Alcan Highway in 1975. That turned out to be a bit adventurous. Since then we drove to San Diego during the part of twenty-five winters in a row until Eileen got sick. I now live alone at the same address, recovering from her loss and learning to cook and do housekeeping. I remain in fairly good health and hoping to enjoy San Diego again this winter."

**Ernie Thurlow** (Geol39) sent us this note, "89 years old last August was really special! Rosemarie and I are still doing quite well after 64 years of marriage. We have been blessed with three sons, a daughter, and seven grandchildren. I am glad to see news of old friends like **Jim Norman** (CE40) and also **Warren Finch** (GeolE48) who started in the uranium program with the USGS about a year after I joined the Raw Material Division of the U.S. Atomic Energy Commission ending up as manager Denver Area Office. Many years later I retired as Assistant Vice President of Burlington Northern Railroad for coal and minerals. We built a house on a small lake near Glacier Park and took golf a little more seriously. My love affair with "Mines" started in 1930 when I joined the "Knot Hole Gang". We were given ID cards signed by **Guy March** (EE22) that allowed us to go to athletic events for free. I

still have my card.

**Lola Hamm Wendt** (EX31), wife of late **Albert W. Wendt** (Chem32) passed away in Dayton, Ohio following a short hospital stay at the age of 94. Family and friends were with her. Her son David wrote a letter to **Tim Vottero** (Chem84) saying that she fondly recalled the late 1920's and 1930's in Rapid and her educational and social association with the "Mines" and the "Mines" alumni. David says, "My dad, Al Wendt who died in 1968, was a loyal Alumnus and Past Alumni President. He played football and other sports for the School of Mines. We still have the old newspaper clippings of their championship seasons and a few old faded "M" award Letter's plus many old photos. I recall meeting many of Dad's fellow grads and Triangle Fraternity members from the School of Mines as a child. School of Mines was an important part of my parent lives."

## 1940's

Erika Banning sent us this note "It's been a few years since **Lloyd Banning** (MetE31) died, and over 14 years ago, I lost my first "Miner" **Milton Hall** (Chem49) who was a Rapid City native. I miss both of these men very, very much. My best regards to **Rod Pappel** (ME77) and thanks to the Alumni Association for the Hardrock.

In May, **Lewis Beebe** (GenE43) will be 85, and will have graduated 64 years ago. Go Mines!

**Edwin Brauner** (EE49) has been in a nursing home since September 2005. In February 2005 he and his wife Helen moved to Pasadena to be near their children. Ed is in a nursing home in Pasadena. He

had two small strokes that have affected his ability to walk, but his mind is sharp. He spends his time in his wheel chair, reading books — a favorite pastime since childhood.

**Lorne Davis** (ChemE41) wrote to say that his wife passed away June 2006.

**Donald Dittman** (ChemE42) visited The Black Hills for three weeks in September. He was fishing in the Hills and in the rivers at Fort Pierre. He is in good health and is driving his car around town. Donald wants to come back again next summer.

**Dick Erickson** (Phys44) wrote, "I thought I was doing pretty well in adjusting to life without my beloved Fran who died in 2002. Then, in 2003, a female mosquito found me at my creek side home in Spearfish!" Dick embarked on intensive therapy to recover from the encephalitis and poliomyelitis from the west Nile Virus brought by that mosquito. We look forward to hearing that Dick has fully recovered.

A note from **Harley Erickson** (EE49) said, "I have just completed my 80th year on Planet Earth thanks to the good folks at M.D. Anderson Cancer Center in Houston. They keep me bouncing along and enjoying life with Vera, my mate of 56 years. Life is good!"

A note from **Robert Fetch** (ME48), "Father Time and Mother Nature have spoken. We were therefore seeking an easier, smaller and more self-maintaining environment. The ones called the Croves provides all of the requirements one can imagine and all is well."



**John Fritz** (EE42) has six kids, all with college degrees, one doctorate, four master's and one B.S. His first wife, who is deceased, was a registered nurse, and his present wife has a Master of Counseling and Education degree.

**Robert Haedt** (MetE40) writes, "It is good to have your weekly E-News to keep in touch. I challenge any alumni from my era to a golf game if they ever come to Park City."

**Donald Halter** (MetE42) and his wife, Martha, sold their home and moved to a retirement home in Eugene, Oregon.

**Gale Hanks** (MetE40) will be 90 soon. Every morning when he wakes up he says to himself, "Well here I am again." He spent the summer at his cabin in mountains near Chama, NM and the winter in Albuquerque. He is still going fishing and driving through the mountains.

**Horace Hansen** (CE41) is still doing some engineering, mainly as community service for small Oceanside Community. Both he and his wife Hope are in good health. They had their 60th anniversary last year. Both of their children live near them in Brookings, Oregon.

**David Ivers** (ME48) retired from the Public Service Electric and Gas Co, near Hancocks Bridge, New Jersey, where he was a Senior Staff Design Engineer in the Electrical Engineering Department. He was awarded 44 weeks of pay plus pension and other benefits at the end of more than 22 years of service in the Nuclear Department. Prior to that, he oversaw the installation of gas

turbine electric power plants. These gas turbines, using jet engines originally designed for aircraft applications are expensive to run with today's jet fuel costs, but they continue to be of value as reserve power plants for emergency needs.

After 25 years operating Judson's Hobbies & Crafts, **Merne Judson** (EX44) and his wife Betty sold out and retired back in January 1989 and have not had a quiet moment since.

We received this note from **Robert March** (MetE44), "We take it a day at a time and enjoy it all we can. Having to review my physics and math as I am involved in teaching middle school kids to make "mouse-trap cars" and understand the design factors that can produce a car that can travel over 100 meters. It is a lot of fun. Had a second bout with CA but they planted another 130 radioactive palladium seeds. I am in steady state. Hear from **Bob Winkler** (CE43) and **Phil Lawler** (GenE47) on the net.

Alumni office got an update from **John Malcolm** (MinE40). "Betty and I are doing fine and enjoying living on Lake Hartwell in NE Georgia since 1987. I had been driving for the local "Meals on Wheels" organization for several years until I was grounded by a mild case of Parkinson's two years ago. I have been progressing well by doing our yard work, indoor calisthenics, and treadmill. I spend much of the balance of the time trying to stay up with the latest innovations in home computer technology.

**Donald Redmon** (MinE43) wrote this note, "The mining curriculum in Mining Engineering and

Management is right on for current professionals. I hope it turns out even better than we hoped for."

**Don Schoessler** (ChemE49) went through a year of rehabilitation after total knee and hip replacement.

After living in the same house for over 33 years, **Armand Sedgely** (CE49) and his wife now live in a retirement facility and he hasn't missed shoveling snow at all. They are still in Lakewood, Colorado.

**Elmer Tomsha** (EE42) still enjoys his camp, but works slower.

### 1950's

**A.L. (Tad) Addy** (ME58), professor emeritus of mechanical engineering at the University of Illinois at Urbana-Champaign was honored by ASME for a lifetime of internationally distinguished research in fluid dynamics and national advocacy of quality and innovation in engineering education, and for more than two decades of superb leadership of a nationally recognized academic department. He received Honorary Membership in ASME.

A note from **George Baumann** (CE53): "University of Montana wanted my services again so I'm back to work."

**Fred "Swede" Beeman** (GeolE50) writes, "All of Beemans (Fred and Bette) live in Kingman now."

Retirement continues to be busy with much Habitat for Humanity work for **Dale Bridenbaugh** (ME53). Five new homes were built in Santa Cruz County last year. Dale got a new knee for Christmas some 60-plus years

after the SDSM/DWU football game in 1950.

**James Brooks** (Geol56) spent the summer giving tours at the Quining Mine in Northern Michigan.

**Earl Brunson** (ME54) sent a list of his family members who graduated from School of Mines: his son **Craig Brunson** (ME83), son-in-law **Greg Hamiel** (Math79), and grandson **James Waldroop** (IE04).

**Carl Buttemeier** (EE59) and his wife Sylvia are enjoying their granddaughters, ages 11 and 13. Carl has done consulting for B/E Aerospace.

**Douglas Clarke** (ME51) and his wife Barbara are sending best wishes to all for a great 2007. They are still enjoying dividing their retirement time between Indiana and Arizona.

"My wife, LaVonne, and I are enjoying our retirement greatly. I play a little golf, sing in the church choir and take great vacations (China, Australia, Europe, Russia, and all parts of the USA). LaVonne sings in the church choir and with Camarata Singers of Long Beach. She is heavily involved in Support of the LA Philharmonic Orchestra."

**Floyd Clay** (GenE54).

Louise and **Warren Dowler** (ChemE56) are retired and retreated from Sierra Madre in southern California to Curry County, Oregon, near Brookings. He likes to do a lot of fishing — no it's catching — along the 50 miles of southwest Oregon and northern California Wild Rivers Coast. "Come see us if you pass this way on US 101. Best wishes to all."

The American Academy of Environmental Engineers hosted a champagne reception at the National Press Club in Washington, DC on Wednesday, May 3, 2006. At the luncheon, **Dr. Wayne F. Echelberger, Jr.** (CE56) was presented the Stanley E. Kappe Award for Excellence in Environmental Engineering. Congratulations to Wayne and the other awardees.



**Dr. Wayne Echelberger, Jr.**  
(CE56)

Arliss and **Terrance Fiechtner** (ChemE59) have homes in Florida and Colorado and they continue to commute between them. They enjoy both homes together with friends at both locations. Now they have two great grandchildren.

**Denys Frederickson** (EE52) sent us this update: "We spend the winters in Mesa, Arizona from January to middle of April where we play softball in the senior league, do magic shows, operate amateur radio plus, fly radio controlled model airplanes, and play chess. It does not get much better than this."

**Maurice "Maury" Fuerstenau** (MetE55) was inducted into the South Dakota Hall of Fame in 2006. The South Dakota Hall of

Fame, located in Chamberlain, recognizes and honors pioneers and outstanding leaders who have contributed to the development and heritage of South Dakota. This year's inductees were chosen from a list of 72 total nominees in a variety of categories. Former faculty member and department chair, Dr. Fuerstenau received the honor in the "Education and Cultural Affairs" category. He is a native South Dakotan and world-renowned scholar, educator, and engineer in the field of metallurgical and mineral engineering. Dr. Fuerstenau was instrumental in developing a world-class undergraduate program in Metallurgical Engineering at School of Mines.

Also recognized was President of Northwestern Engineering Company and former member of the South Dakota Senate **Stanford Adelstein** (Hon80), who received the honor for "Government". He was named South Dakota Philanthropist of the Year in 2004 and was appointed Civilian Aide to the Secretary of the Army from 1999 to 2004. Nearly 600 South Dakotans have been selected for recognition since the Hall of Fame was established in 1974.



**Maury Fuerstenau** (Met55) at the South Dakota Hall of Fame



For more information and a complete list of inductees, please visit <[www.sdhalloffame.com](http://www.sdhalloffame.com)>.

**David Grow** (EE59) has been retired from teaching at School of Mines for four years. He and his wife Janice still live on Spring Creek. Their two girls are in the medical field and live in the area. Their boys are engineers and live miles away.

Maryann, wife of **Duane Gustad** (MetE59) passed away in November 2006.

**Bernard Hoogestraat** (GeolE56) wanted to thank everyone for their expressions of sympathy and support following his wife Helen's death.

Both Lois and **Charles James** (ME51) turned 80 in February 2006. All of their children are in California now. They have been thinking of moving west, but after 35 years in Ohio they made deep roots.

The Alumni Association got this note from **Bruce Johnsen** (CE59): "Dear folks, still looking for the perfect balance between work and play. Spent some time team building on the Rosebud Reservation; also had some great days of skiing with **Tom Warborg** (ChemE63). Keeping in shape mentally and physically seems like a good way to go. Thanks for all of you who do keep us in contact."

After 12 years Runa and **Allan Joslyn** (ME59) sold their sailboat home and now live permanently in Sweden.

**Robert Kenner** (GeolE52) and his wife Patricia are extremely proud to have seven Kenners from their immediate family on M Hill and

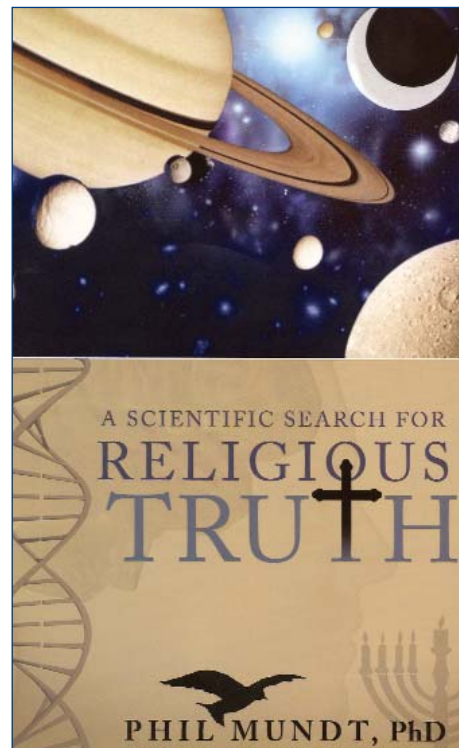
the eighth will go up next year.

**Myron Kidner** (ChemE50) writes, "We visited Rapid City in early October. We stayed with brother **Kermit Kidner** (EE60) and got a chance to visit with **Al Gilles** (Geol52) and **Grove Rathbun** (Min52). We manage to stay busy. There seems to be a lot of demands for our time (and money)."

**Joan and Clark Kurtz** (EE59) enjoy retirement. They are both active in community affairs in Canandaigua, New York where they live. Clark has a good time playing Table Tennis and also still works with <[www.ownertrades.com](http://www.ownertrades.com)> — a website he built that keeps him busy.

**Alan Liffengren** (ME57) traveled to Missouri and Illinois for Christmas/New Years holidays with kids and grandkids. He is hoping to come for 50th reunion of 1957 graduating class.

**Phil Mundt** (GeolE51) is an author of the book, *A Scientific Search for Religious Truth*, the result of years of research reconciling science and religion. Dr. Mundt received a master's degree in geology from Washington University at St. Louis and then earned a Ph.D. in geology from Stanford University. After completing his formal education, Mundt began a 34-year geology career with Mobil Oil, serving as an exploration manager and manager of geology and geochemistry research. In 2001, he began four years of research seeking to resolve some of the main misunderstandings between science and religion. The book looks at the origins and written works of each, proposing a "scientific paraphrase" to bridge



*A Scientific Search for Religious Truth- Phil Mundt (GeolE51)*

the chasm between science and the "six days of creation" story. His web site is <[www.philmundtbooks.com](http://www.philmundtbooks.com)>.

On Monday afternoons **Leland Nitteberg** (ME51) works as a Tour Guide at the Columbia River Exhibition of History, Science & Technology Museum in Richland, Washington, which provides visitors information regarding the 570 square mile Hanford Nuclear Project. After graduating, Leland went to work on the Hanford Project and retired in 1989. He went to work for a Hanford Sub and retired again in 1996.

Just one sentence from **David Papcke** (GeolE58), "How time flies".

**E.H. Pederson** (Cheme51) is still traveling. In 2005 he spent two weeks in South Dakota for high school and college reunions.

Afterwards, he went to Hawaii for Legion National Convention; then he went to Japan to visit his daughter and her husband. Elwood's earlier letter said, "My Cochlear implant is working great. I've worked with the Arizona State University, who is trying to find out if there is a difference in the preliminary comparison of performance between patients fit with the CII Bionic Eng and with the Nuclear 3G System."

**Everett Pompy** (EE50) wrote, "I enjoy playing in the New Horizons Band — a group of senior citizens. About 50 musicians currently participate — lots of fun. I play two or three rounds of golf per week when possible, play solitaire on the computer, and I am active in church. It isn't difficult to keep active." And he adds, "Tell everyone who'll listen what a great school School of Mines is." Everett's sons **Michael Pompy** (EE69) and **Jim Pompy** (M.S. MinE77) are alumni too. His granddaughter, **Bethany Pompy** (Chem03) represents the third generation from "Mines".

**William Richardson** (ME59) wrote that since retiring, "I've fallen into a market niche I hadn't realized was there — the small structural engineering jobs that are a nuisance to regular structural companies. My company is OPC (Oddball Projects Company). I work out of my home and my Pinto. The best thing is that I'm on my own clock — no more department meetings! I make enough to support my model airplane habit, travel (Australia, East Africa, Italy, etc.), and keep the Pinto running. Shirley and I are Great Grandparents. Life is good."

**John Ritter** (GeolE58) and his wife Judy moved to Gainesville, Florida

to be near their daughter Allison and family.

**William Rowe** (ChemE51) shares the comment: "Out of nine ChemE51 only two of us left now; **Lenn Shafraneck** (ChemE51) and myself."

The Alumni Office expresses condolences to **Duane Skogen** (ChemE56) on the loss of his wife, Arliss, who passed away in February 2007.

**Lowery Smith** (GeolE51) and his wife Mary had a great time when **Howard Peterson** (GeolE50) and his wife Dee visited them on the North Shore of Lake Superior back in August. They also enjoyed attending the theatre with **Keith Graham** (Phys51) and his wife Helen. Lowery adds that is always great to get the Hardrock.

**Ward Spear** (EE51) is considering moving back to Rapid City or Sioux Falls. At his age, he adds, "Rapid consideration (action) is needed or I may arrive in a bag."

**Ernest Sundstrom** (ME58) has been helping George Buck Pipe Organs Inc. rebuild church pipe organs. For a retired Mechanical Engineer, he finds this all new and very interesting.

We received a letter from **Marvin Sundstrom** (EX56) sharing, "I attended School of Mines from the fall of 1953 through spring 1956, and with some diligence would have probably finished in 1958. My degree, in the same major, is from the U of Washington. I do enjoy reading of the accomplishments of 'Techsters' in the Hardrock. One would wonder why more of these accomplishments were not in state. Again, keep up the good work!"

**Owen Tripp** (ME50) designs machinery and systems for the Marine and Mining industries. And he adds, "We encourage and urge the finishing students to become licensed engineers. This helps cultivate a professional manner in the students."

**William Tyrrell** (ME50) sent us this note, "We moved from Bell Mead to the Vale, a small community south of Alken. The Vale is a former vineyard, hence the street name Chardonnay Lane. We were able to install a sizeable dog run for our two poodles, which they enjoy much more than being walked on leashes. All told the weather is a great improvement over that in the Shenandoah Valley, Virginia."

After 44 years **Tommy Vance** (CE59) retired. "For seventeen years, I worked as highway engineer for State of California, three years project manager in Reno, Nevada, and twenty-four years with Baldwin Contracting in Marysville, California."

**Ronald Varilek** (CE57) runs on the beach, plays golf, volunteers as beach ambassador and cleans beach. He also works part time at two golf courses. He has 13 grandchildren and his life is good in Florida.

**Peter Vossos** (Chem56) writes, "Fourth grandchild arriving in February 2007 and daughter getting married in April 2007."

The Alumni Office received this letter from Pam, daughter of **Richard Wall** (EE54), "Dad's 75th Birthday Bash was a resounding success! He was totally surprised as we paged him to the lingerie section of the Wal-Mart, and we jumped out of the dressing room yelling "surprise!" He was stunned





**Richard Wall's (EE54) 75th Birthday Party**

for the good part of that afternoon, and the rest of the week with 18 of us bounding around the lake and visiting Acadia/Bar Harbor, it was a really great time."

## 1960's

**Roger Abrahamson** (ME66) is still running his consulting engineering business, Abrahamson Engineering, full time in Fort Collins, CO. They design HVAC and plumbing systems for schools, offices, churches, and so on. They are doing two new high schools in Cheyenne now, the larger one with estimated construction cost of \$31.33 million. The company has four engineers, one CADD draftsman and two part time people. He and his wife Bobbie still enjoy their small ranch with two horses and two dogs.

Not much traveling for **Theodore Andrews** (CE62) and his wife Louise, but they still enjoy pretty good health. They bowl two or three times a week and Ted is still on top of the grass on the golf course. They are active in their church and enjoying family, including three great grandkids.

**Warren Bamesberger** (Chem60) had total hip surgery and wife Maxina had ligaments and tendon repaired in her left ankle. They are both doing very well now.

Jan and **Larry Baruth** (ME66) went to Minneapolis in July for polka fest. They had supper with **Dave Kramers** (MetE66) and **Jim Curnow** (ChemE64). They went to Detroit Lakes, Minnesota in September for weekend with **Terry Rothenbuehler** (ME66). Dave Kramers met them there and they had a good time.

**Paul Besselievre** (EE64) is enjoying retirement. He keeps very busy with community, church, grandchildren, and traveling and visiting friends.

A great golf outing **Wayne Binfet** (EE68) enjoyed in September with **Jerry Reis** (ChemE68), **Jim Neuharth** (ChemE68) and **Don Orton** (EE68). Wayne had dinner with **Craig Nordby** (EE68) while vacationing in Virginia.

**Robert Bottge** (GeolE62) wrote, "The doctor who performed a total hip replacement recently took the opportunity to lengthen my leg. We are expecting our first grandchild in January 2007."

**Dennis Bress** (EE64) and his wife Sol are busy setting up international software resellers in Latin America and Asia, working closely with the IBM I series sales team.

"To young to retire", wrote **Alfred Broz** (PHYS68). Daughter Alissa, 21, is in Northfield, Minnesota at college of St. Olaf. She has visited France more times than Alfred. **Robert Cash** (ChemE60) retired in September 2003 and was asked to come back to work. He finally retired for good in May 2005. He

is now enjoying retirement and wonders how he got everything done when he was still working. Robert and his wife Donna volunteer for many things.

After having spent his entire career working for Consulting Engineering firms **Lynn Englehorn** (ME66) retired in 1999. He and wife Paulette have three children — one daughter is a medical doctor, one daughter works for Warner Brothers, and their son is a teacher in Guatemala — plus they have several grandchildren and great-grandchildren. Upon retirement, they moved to a house on Lake Tanter, which is ten miles north of Menomonie, Wisconsin.

**M. R. Hansen**, (CE69, M.S. CE73) who earned a Ph.D. from North Carolina State University and **Frank Hansen** (CE73, M.S. CE74) who earned a Ph.D. from Texas A&M University were both promoted to Fellow Grade of the American Society of Civil Engineers (ASCE) in 2006. ASCE Fellow grade is the second-highest membership grade, after that of Honorary Member. This grade represents a recognized level of professional distinction and



**Drs. M.R. (CE69) and Frank Hansen (CE73)**

achievement, per the established guidelines. Congratulations to both Drs. Hansen.

**Frank Herman** (ME63) left the World Bank in 1997 after a 26 year career and became CEO of Darby Investments — part of Franklin Templeton. Their children are married and Frank and Irma have three grandchildren.

After almost 36 years with the state of Minnesota, **Fred Fawkes** (MinE60) retired back in January 2000.

**Michael Fischbach** (ME64) sent this update, “We are enjoying life as grandparents. Also wondering how many classmates have been able to retire already? Still enjoy engineering at Black and Veatch. “I am looking forward to the next alumni gathering here in Kansas City. Keep up the good work Tim!”

An update from **Alan Freiberg** (ME68) included: “I am still working as a consultant for Pursue Energy near Jackson, Mississippi. Flew my air plane to Myrtle Beach, South Carolina this past summer, to visit my son Trent and his family who were back in the U.S for a few weeks from their home in Shanghai, China. I got to see my second grandson Alex for the first time. On his first baby picture there was a large tag hanging from his neck that said ‘Made in China’. You see that on a lot of products these days, but I never expected to see it on a grandson.”

A note from **Robert Glodowski** (MetE67) tells us that he is still enjoying his second career with Strategic Minerals Corp. in Pittsburgh, Pennsylvania and promoting Vanadium to steel

mills around the world. He always enjoys meeting all the MetE grads from Mines.

**William Green** (CE61) retired in 2004 and moved back to South Dakota in 2005. He and his wife Kay now live south of Hot Springs. Kay’s brother, **Jim Marlow** (ME61), has been easing him back into Mines sports. They are partial to their basketball team and they enjoy home football games.

Retirement has been great in Tuscaloosa, Alabama for **C. Tom Gorder** (MetE60) and he is not doing consulting any more. He and his wife Anita are still traveling a lot and continue to spend a month in the Black Hills and time with their daughter Susan and granddaughter Lauren in Kentucky. During the school year, sports at U of Alabama take a lot of their time.

After 36 years of service with Shell, **John Heinemann** (EE67) has retired. They are enjoying all of the free time and spoiling grandchildren in Houston.

After 21 years, **Richard Heizer** (ChemE67) was laid off from Baxter Healthcare, so he started his own company designing residential/commercial septic systems and storm water management systems. He will continue to consult pharmaceutical companies for validation studies and water pretreatment.

**Robert Higgins** (Math68) retired from Federal Express.

**Vincent Humann** (ME68) and his wife, Janet, built a house in Rio Rancho, New Mexico, and moved in just before Christmas, 2003. He added, “What a change from Michigan! We love the sunshine

and the spectacular country out here.”

**Kenneth Hydinger** (MetE60) is still enjoying retirement. He spends his time fishing and enjoying his grandchildren as often as he can.

Judy and **George Jongeling** (ME66) are enjoying retirement. They spend a lot of time with grandchildren and traveling that includes their annual trip to South Dakota for pheasant hunting.

For over 33 years, for **Anthony Johnson** (ME64) the address has been the same. He and his family live on the west side of Mauna Loa Volcano at 2100’ elevation where they raise coffee, citrus, and avocado (along with some pigs and chickens). His wife of some 29 years, Norma, “keeps him straight”. He has been with his current employer for 12 years, where they do commercial HVAC, plumbing, sheet metal, and fire protection. Aloha to all.

**Odean “Juke” Jukam** (ME62) sent us a letter, “My wife passed away in June 2002. At the time I was negotiating to sell my company, Systems Management & Balancing, to a young engineer out of Texas A&M. After 32 years of testing and balancing air conditioning systems, the sale was completed. In 2003, I attended the 45th class reunion of the Howard High School class of ’58. Also in attendance were **Jim Gudahl** (ME62) and **Dick Truman** (CE62). It was great to see them both and review our years together through high school and our years at the Mines as roommates. Throughout my professional career I have had the opportunity to work with some outstanding Miners. **Don**



**Kleinschmit** (CE74) and **Stewart Moen** (ME92) joined Systems Management & Balancing in 1993, then Stewart moved on to Tennessee. However, new hires **Jon Shawda** (ME04) and **Forrest Foster** (ME04) have done an excellent job filling the gap. I've also worked with Design Consultants **Don Swanson** (CE74) and **Rick Ames** (ME90) over the years. I bought a house in South Dakota and after 40+ years I am once again a resident of South Dakota."

Alumni office received this note from **James Kotas** (EE68): "I am heading up a group of volunteers and local businesses to build hands on science exhibits for our Daytona Beach Museum. Very fun stuff and well received by the community."

**David Kramer** (MetE66) is still enjoying the consulting business. Turning 60 was a mile stone. He has thought about retirement, but being in good health and interesting work it is still few years away.

**Joseph Kulik** (GeolE61) wrote, "I am continuing to attempt to sell prospects in the Delaware Basin and Midland Basin, West Texas, and work with my land man partner, Bruce Blake in Midland, Texas."

**John Larson** (ChemE67) is an Engineering Fellow for DuPont Performance Coatings in Philadelphia. He is (still) thinking about retirement.

To be closer to their kids Judy and **Jon Lehner** (Math64) moved to Iowa from the Black Hills. They "miss Black Hills but love hugging their grandkids a lot more!"

As an owner of Casa Tierra Bed and Breakfast in Tucson, Arizona, **David Malmquist** (MetE66) but starting to think about a change. "Anyone want to buy a B&B?"

**Richard Mickelson** (ChemE69) retired from Celanese Chemicals after 30 years. They have semi-retired to the Texas Hill Country and have started a second career using his "minor" in Math. He is teaching middle school math in the Fredericksburg area where they live. If anyone gets down that area is welcome to look them up.

**Harlan Miller** (GeolE62) attended his 50-year high school reunion in Gettysburg in September to see that he was not the only one aging!

"Retirement is finally (after 10 years without a regular job) starting to seem like a reality and it's not too bad", writes **Richard Moen** (MetE62). He adds, "More time for spur of the moment travels, gardening and dormant hobbies. Mary Jo will also end her regular (part time) job as a pediatric nurse. Grandkids in Seattle and Olympia will take up much of the slack in our lives."

**Gary Nelson** (ME65) is still enjoying the good life in Georgia playing lots of golf and arrival of their seventh grandchild.

**David Niven** (Geol67) finally became a grandfather and enjoys all too infrequent visits with the lad. He is staying active teaching geology part time and skiing, golfing, and river running. Life is good, despite the aches and pains.

In September, **David Novotny** (Math65) saw Bonnie and **Doug**

**Hanson** (Chem65), and **Chuck Cushing** (Ex Student) at the home of Marge and **Jim Yoss** (Chem66) in Colorado.

**Godtfred Nymark** (EE69) emailed classmate **Larry Simonson** (EE69) from Norway that "Christmas time is, among other things, a time to remember far away friends. Last time we met, at the Oslo Railway Station, was kind of hectic. I have now been retired for almost a year. I do not miss the responsibility at work, but I miss the action and my colleagues. Ingun and I split our time between the nearness to nature at Sotra and the life in the city in Oslo. I am also a student at the University of Oslo (part time). I follow courses and take exams in political science. I like very much the life on campus and being among young people. It is just like old days!"

**Robert Pederson** (ME60) enjoyed getting together with class mates **Larry Blair** (CE61), **Don Gapp** (Geol60), and **Vernon Bump** (Geol61) at Vernon and Gloria Bump's home. They gathered for the SD Vietnam memorial at Pierre, South Dakota in



**Larry Blair** (CE61), **Don Gapp** (Geol60), **Robert Pederson** (ME60), and **Vernon Bump** (Geol61) (l to r)

September 2006.

**Jerald Ott** (ME65) and his wife Bonnie enjoyed a nice two month RV trip to Nova Scotia, Prince Edward Island, New Brunswick, Quebec, and Ontario. The Cape Breton Drive and Bay of Fundy Tides were magnificent!

**George O'Clock** (EE62) just finished writing a book for Artech House (Boston, Massachusetts) for their engineering in medicine and biology series. The title of the book is *Electrotherapeutic Devices: Principles, Design and Applications*.

Retirement is great for **Gordon Osterhof** (ME61). At the age of 73 he is still able to hike the mountain trails in Colorado.

**Steve Parker** (MinE68), president Pittsburg & Midway (P&M) Coal Company, has elected to retire from Chevron following 38 years of distinguished service.

**Marcus Pedersen** (ChemE62) and his wife Judy are enjoying retirement, with their children and grandchildren all within 200 miles. He adds, "The situation is good".

For Judy and **Jerry Pekarek** (ChemE66) life has not slowed down as they are kept busy with church projects and trips to see their grandson in Seattle, Washington. Jerry has completed "77 from 100 hikes in New Mexico."

**Michael Pendo** (EE68) has a son Luke, who is a third generation attendee (currently junior) at School of Mines, after his father and himself.

**Gary Radford** (ME60) retired from Raytheon and works full time with his consulting firm - Radford Engineering Co. - in Richardson, Texas.

**Harry Rickard** (CE61) emailed, "Nancy shares in the construction business and we are loaded with more jobs than we need. People traveling the Oregon coast can give us a call. We hope to taper off next year and do some visiting and touring." Harry retired from the US Forest Service and he and his wife have their own business as general contractors. They still live in Florence, Oregon.

E-mail from **K. Delmar Rumph** (GeolE68) says, "I am beginning to enjoy the retired life — chasing the grandkids, traveling, playing some not-very-good golf at the local club here in Morisson, Colorado, providing emergency cowboy help back at the family ranch in Montana, and doing some volunteer home construction at the local Habitat for Humanity." He and his wife Jan love being in Colorado. All of their three sons are married and busy with various careers.

In September 2005, after 45 years of service, **Robert Schott** (ME60) retired from AGCO Corp. He and wife Patricia have four children and eleven grandchildren. They live in Hesston, Kansas, near three of their children and eight of their grandchildren.

A note from **Charles Schmidt** (MetE63) says, "All quiet at the home front. All three kids are now married; our first grandchildren arrived in December 2005. I am still "working" with little ones at the city recreation center. We traveled a lot during the year —

San Diego, Oregon, Iowa, Florida, and yes, our usual trips to South Dakota and for a family Thanksgiving in Phoenix. He is still involved with brother and nephews on ranch operations in SE Montana, so he gets out to the Hills area a couple of times a year.

Since 1969, **Dyi-You Shieh** (CE69) has been apart from the school. He and his wife visited the School of Mines for the first time since graduating. He wrote in his notes, "It brought back a lot of memories. My daughter, Liz, was born there and now she is the mother of 3."

**John Sittner** (MinE67) writes, "I can never say enough about the education I received at School of Mines — for that I am grateful."

Bonnie and **Theodore Smolik** (MetE63) still enjoy living in Blaine, Washington despite all the rain! He is busy with Marina involvement, Coast Guard Auxiliary responsibilities, and some outside consulting work. They invite alumni coming in the area to give them a call.

**Ronald Stember** (ME67) shared that he enjoyed playing golf with **Bill Guetz** (EE67). He kicked around old times with Bill and his wife Janie over dinner. He also had dinner with **Don Hamann** (ME71) and his wife Shirley. On occasion he sees **Roy Brown** (EE67) and his wife Sonja and chats regularly with **Richard Monheim** (EE66).

**Alan Swanson** (Chem66) recently retired from BAE Systems and moved back to his hometown of Sioux Falls, South Dakota with his wife Mary. They will be doing some consulting and college teaching.



Retirement is going well for **John Synhorst** (EE68). They went on a cruise to New Zealand and Australia and are planning another cruise through the Baltic Sea. John is doing some volunteer work at the NREL (National Renewable Energy Labs) Visitor Center in Golden, Colorado. He also added, "Thanks for keeping us informed through the Hardrock E-News."

After 38 years in the medical laboratory, **Tim Taylor** (Chem63) retired at the end of 2006. In addition to downhill skiing, backpacking, and hiking, his intent is to get his EMT certificate and work part time at that, as long as his health and fitness permit. He will also continue his efforts in working with recovering alcoholics, and persist in his own recovery, having had nearly 29 years of continuous sobriety.

**Kenneth Trompeter** (ME62) retired from Greeley and Hanson. Their oldest daughter Karen, husband Mark, and children returned to "SoDak." Still in Nevada, Ken refers to their daughter's move as being closer to "God's country."

**Marinus Vanden hul** (ChemE67) sent the Alumni Office an update: "In August, our son Sharon and his wife Andi presented us with our first grandchild, a healthy baby girl they named Ava Raine. They live in Westminster, Colorado, just North of Denver and only an hour and 20 minutes from us. Our son is a Ph.D. and our daughter is an elementary music teacher."

Still working in his field as a consultant, (Thermal Processes, LLC) **Krishnakant Vernenkar** (MetE64) travels around 360 days

a year. His wife, Meera, works at Lord & Taylor. One son, Dr. Vic Vernenkar, is married and works in Saint Barnabes Hospital in Bronx, New York as a vascular surgeon. The second son is pursuing his master degree at the University of Paris as a diplomacy and international relationship major. They are all happy to be in USA and Krishnakant is intending to work for a few more years.

**Kenneth Wessel** (Math68) retired from Southeast Alabama Medical Center as Chief Information Officer. He and his wife Ann enjoy traveling the USA to visit family, children, and grandchildren.

A note from **Darwin Wika** (ChemE63), "I am totally recovering from surgery, so still a little slow; should be pretty much back to normal in about six weeks. As I need to fly to South Dakota to pick up my father-in-law in Clark and take him to Texas for Christmas, where my whole family gathers each year. Darwin also emailed earlier in the fall that he "retired in 2003" and is enjoying the "fruits of my labor". They have three kids - one in LA, one near San Antonio, and the youngest graduated in May, 2005 from Purdue and is working in Chicago.

## 1970's

Lu Ann and **Steven Aakhus** (CE78) celebrated their 'empty nest' by relocating to Berkeley, California. Steven continues with the AcuTech Consulting Group, an international process safety and security consulting firm. They would welcome seeing Bay Area alumni again after attending and enjoying their first function several years ago.

**Jackie Akerson** (EE79) emailed that "Thanks to the engineering degree that I was able to obtain from School of Mines I have had the opportunity to visit and work in several countries that I never would have seen otherwise (Russia, Chad, China, Guatemala, Great Britain). It seems like just yesterday that we were all out having too much fun and wishing we didn't have so much homework. I just started a new job with Weatherford in December and my family and I were able to relocate back to Cody, Wyoming from Oklahoma City. My husband, Ed, and I will be celebrating our 25th wedding anniversary this year in April. Our oldest daughter, Megan, is in her third year at Cal Poly in San Luis Obispo, California where she is working on an architecture degree. Our youngest daughter, Lynn, will graduate from Cody High School this spring and is thinking about pursuing either an engineering or legal degree."

"Aloha" from **F. Gregory Apa** (CE79). He started a company on the Island of Sarpan, CNMI, and operates the first Subtitle D Landfill in the Western Pacific Rim plus an operating company in Maui. He moved his family to Hawaii.

Ever since **Scott Barber** (ChemE71) retired from Dow Corning as Global Director of Shared Logistics & Supply Chain Services, he has split his time between retirement pursuits like golf, tennis, and fishing; and logistics consulting for UT Worldwide. He and his wife enjoy living at The Villages in Florida, which he calls "a great retirement community."

Vince and **Jane Barnes** (ChemE79) enjoy hunting with their English

setter, Jesse. They are busy and work is going very well in Wisconsin.

An update from **Linda Barnes** (Math74) included, "Enjoying my return to Spokane, Washington. Proud time for me as a parent — my daughter married in August 2006; my son is currently serving in the Navy aboard the USS Kitty Hawk."

**Ronnie Baruth** (MinE72) and wife Debbie are still farming near Huron, South Dakota. He likes bowling and car races, and will go long distances to enjoy both.

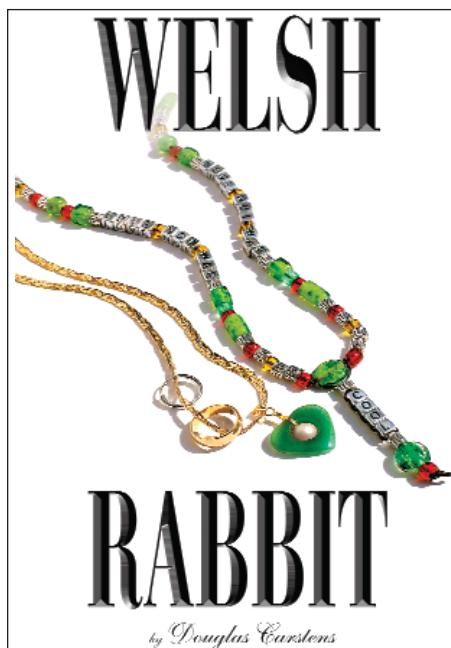
**Michael Bates** (EE70) retired from J.E. Dunn Construction and moved back to S.D. to take care of family. He enjoyed playing golf at the Reunion with Dave Krull, **Bob White** (CE72), and **Joe Vig** (CE71).

Tracy, daughter of Sandy and **Alan Boyd** (ChemE76) had her second child, which makes them grandparents twice over.

**Lorin Brass** (MetE75) is happy to be retired (in South Dakota!).

**Doug Carstens** (Chem78) is a writer and publisher. When not busy penning novels, he spends his time working on campaigns for local political causes. The title of his latest book is *Welsh Rabbit*. Asked about his latest book, he commented, "Even [books] take a lot of research. I enjoy incorporating anecdotal history into my stories. On the other hand, promoting a book is more time consuming than writing it. But I can't complain. I get to combine my knack for marketing with my creative flair."

A happy note from **John Chandler** (MinE79) reads,



*Welsh Rabbit- Doug Carstens  
(Chem78)*

"Recently I have had a BIG change in my life with the birth of my son Fisher. He is a happy healthy one-year-old now and has certainly changed my outlook on life. Hopefully he will attend School of Mines someday!"

**Suraj Choudhury** (MinE78) established an Engineering Assessment company for foundation analysis for residential and commercial structures in the Dallas/Fort Worth area. He is interested to see what kind of ongoing help he can provide for the Mining Engineering and Management Department.

Donna and **James Cooper** (ChemE73) moved several years ago to the beautiful Olympic Peninsula in western Washington State. They raise and train Border collie sheepdogs and participate in United States Border Collie Handler Association sanctioned herding trials, and Jim works with computer system and

network design support.

**Vickie DeNeui** (Math73) took early retirement in 2005 from Hewlett Packard Co. as IT General Ledger Systems Manager in Houston, Texas. She has been working various Houston volunteer jobs plus traveling (Australia, Kenya, plus other US trips). Both her sons have "science/engineering in their genes" as older son, Alexander DeNeui, graduated from MIT in Computer Science and younger son, Nathan DeNeui, attended University of Texas majoring in EE. Her older son works at Microsoft and her younger son Nathan will be graduating from University of Texas in 2007.

Returned to banking in January 2003 **John Dolan** (GeolE77) wrote us that it is more fun than ever performing oil and gas lending. He sees **Tom Bidgood** (M.S. Geol73) each fall to chase pheasants.

**Bart Fisher** (ME74) notes that his youngest son **Andy Fisher** (IE04) graduated in Industrial Engineering and works for Bobcat in North Dakota. "He joins me and his older brother **Alex Fisher** (GeolE00) as proud alumni." Alex and his wife, **Emily Jo (Schaffer) Fisher** (CE99) also made Bart a thrilled grandfather with their daughter Reagan Eve.

**Harvey Fraser**, former President of the School of Mines (1966-1975), celebrated his 90th birthday on Friday, August 11, at his daughter's home (Joan Fraser Yeash) in Louisville. Harvey enjoyed receiving all the birthday cards. His memory is quite sharp — he remembers a lot about his School of Mines' days and many of the students and faculty/staff. He still subscribes to the Rapid





*Harvey Fraser with daughters Janet and Joan*

City Journal, follows the Hardrocker football team with enthusiasm, and periodically calls the Alumni Office to “check-in”.

**Thomas Fuller** (ME74) continues to work for the Wyoming Business Council as its Manager of the State Energy Program in Cheyenne. They implement Department of Energy conservation and renewable energy programs.

**Karl Gerdes** (ChemE71) continues to travel quite a bit for Chevron Texaco, doing cooperative industry R & D efforts relating to natural gas technology. He has been in London a couple times, Australia once, and many times in Houston and Amsterdam. He and his wife managed to travel a bit, despite his hectic travel schedule at work.

**George T. "Rusty" Gray** (MetE76) was honored as an American Physical Society Fellow. The Los Alamos National Laboratory scientist was selected for “important contributions to the understanding of defect generation and storage in materials subjected to shock loading and for advancing the state-of-the-art of shock recovery techniques to benefit shock

physics.” Gray earned his B.S. and M.S. from School of Mines and his doctorate in metallurgical engineering from Carnegie Mellon University. He also received the Los Alamos National Laboratory Fellow's Prize for Research in 1996 and was appointed as a Laboratory Fellow in 2002.

After 31 years **Anthony Green** (CE75) retired from WYDOT and has returned to the family ranch in White River, South Dakota.

**Robert Gregg** (EE72) plans to retire in December 2006 after 34 years with Hughes Aircraft Raytheon Colorado.

Betsy and **James Hamel** (CE Faculty 1969-72) always looks forward to the Hardrock with news on School of Mines, former students, and former colleagues. Hamel Geotechnical Consulting keeps Jim busy. They enjoy traveling from their base in Pennsylvania.

**Kevin Hegerle** (MetE74) continues as General Manager with Rio Tinto Technology Group in Colorado. His family is doing well, and they enjoy multiple grandchildren.

**Robert Heier** (ME73) and his wife Madonna are living just outside New Orleans. He is still working for DuPont as an Engineering/Construction Manager. In 2006 they saw Lani and **Bob White** (CE72), Nawly and **Wally Sieck** (ME70), Julie and **Pete Birrenkott** (ME71) and Sue and **Philly Boland** (ME68).

**David Hobler** (Math76) “totally retired at 50 using profit from San Francisco, California and Phoenix, Arizona real estate liquidation and now I am embarking on active retirement in

the following areas: 1. Returning to school to get Medical Engineering Degree specializing in MRI technology. 2. Building mid- to high-level homes. 3. Starting private lenders “consortium” to pool dollars to lend for second mortgages. 4. Building a personal health program toward my first marathon in Honolulu. **Mike Hobler** (Math68) and wife Ann also visit the Alumni office periodically on their quest to relocate back to the Black Hills.

**Judith Hull** (Math74) is currently on disability after almost seventeen years at SunGard.

**Theodore Iverson** (ME73) continues to work as environmental and facilities engineer. Son Nick graduated with degree in computer integrated manufacturing and son Ben with Ph.D. in material science and engineering. They miss Black Hills and plan to retire in three to four years.

**Jerry Johnson** (ME70) “retired after 29 years in the telecom industry, and enjoyed volunteer work with various non-profit organizations, traveling with Karen, and some “hobby” consulting for a couple of years. Then one of my clients invited me to help start a company and we incorporated Daybreak Intellectual Capital Solutions in April of 2002. I serve as a President and CEO. Daybreak ICS is a professional services company in the content management software space. Our specialties are publishing solutions and customized user training. We have landed some contracts that are keeping us busy. We love living in Vermont. I find it has remarkable similarities to Rapid City and the Black Hills.

Our children are fine. Aprille works in the securities industry, Wes teaches high school, and Brandon attended law school in New York."

**William Jones** (ME73) has all of his sons graduated with engineering degrees from NCSU in Raleigh, North Carolina. Now he has two grandsons, with a third grandchild expected early 2007.

**Dennis Kalvels** (EE73) works for the State of Colorado as a Design Engineer on communications projects. He and wife DiAnn mostly enjoy their grandchildren.

**Debra Keller** (GeolE78) sent us this note about her family, "Son Chris graduated from U.S. Air Force Academy and then graduated from pilot training in 2003. Daughter Katherine graduated from U.S. Naval Academy, and served as an engineering division officer on USS Peleliu offshore Iraq." Deb works as math/science specialist for Alief ISD and husband **Jim Keller** (GeolE78) is Petrophysics Leader for Norske Shell — both in Norway!

**Gregory Koch** (ME75) retired as of April 1, 2006.

**Michael Langerman**, Ph.D. (ME72), resident of Hermosa, South Dakota, and chair of the Mechanical Engineering Department at the School of Mines, has been named a Fellow of ASME.

A note from **Wayne Larsen** (GeolE76): "Son Matthew was married to Jessica Schmidt in August 2006. Daughter Amanda is engaged to be married in May 2007. I am in my third year as the business manager of the area

school district in Tea, South Dakota. The tree farm is slowly becoming a part time business. Wife Margaret is now working for the outsourced company."

M. Lorraine and **Carroll Lafmann** (GeolE75) relocated to Northern Kentucky (very near Cincinnati) and enjoy the area very much. Arielle has finished college and teaches in Denver area. Carroll stays very busy with the Black River and Maysville Operation of Carmeuse — two underground limestone mines producing seven million plus tons of stone and 2.5 million tons of lime.

Energy Metals Corporation recently announced the addition of five key technical experts to their U.S. operations team, including **Mr. Steven Loose** (Geol78) as the Project Geologist. Steve Loose began his career with Rocky Mountain Energy Company, participating as a geological assistant in several uranium reconnaissance programs. After graduation, he was employed as a development geologist at RME's Bear Creek Uranium Mine with oversight of an expansion drilling program in the Powder River Basin. He later transferred to RME's exploration division and worked as an exploration geologist. Steve also worked as a Consulting Geologist and earned M.S. from the University of Wyoming.

**Lennis McClung** (ME77) is still living on the same farm/ranch that he grew up on. It is a century old farm, and has always been owned by his family and ancestors. Lennis loves this farm with lots of trees, prairie, and peacefulness! Lenny also runs his professional Mechanical Engineering Business (EDM Engineering Co). In his spare time

he works on "McClung" genealogy.

**Glenda McFarland McDill** (Chem77) wrote that she teaches chemistry at Crosby High School in Texas. Daughter Jessica graduated from University of Georgia with a Master's degree in theatrical costume design. Husband Richard is a regional sales rep for KMCO, Inc., a custom chemical manufacturing company based in Crosby. We are close enough to Houston to enjoy the amenities and far enough away to avoid most of the headaches most of the time. "Can you guess I'm not crazy about Houston?"

Gregory and **Karen McNeal** (Chem76) have lived in Kingwood, Texas for 20 years now. After graduate school, Karen went to work for Shell Chemical until she retired in 1987 to be a full time mom. She had a blast as a soccer mom and PTA President. She went back to work at Shell in 1994. Kraton Polymers was sold by Shell in 2001 and has been a stand alone company since. Karen is the Sales Manager for Kraton. She loves her job and the wonderful education she received at School of Mines. She adds, "It has served me well!"

Trina and **James Miller** (Mtro71) enjoy attending Elder hostels; they have been to Elder hostels in Boston, Georgia, Oregon, Kentucky, New Zealand and Australia. They became great grandparents in July 2006 when great grandson, Lucas Phipps of Rawlins, Wyoming came into the world. Jim coordinates the Herbert Wiesz Philosophy Society on campus. He is still playing volleyball, (now at the senior center).



**Clark Moseley** (MinE75) writes, "This has been quite year for a change. With the advent of new management at North American Coal my position was eliminated last June. I have been kept quite busy since that time in my job search and helping around the house. Mary Jo has been coping very well with having me around the house trying to fix things and working on all of my projects. She rolls her eyes when I come into the house and ask, "Can you help me for a minute?" However, we have been able to make trips back to South Dakota to visit family. I also was able to meet up with my friends from my Harvard AMP class in London the first week of November. It was great to see old friends and catch up with all that has happened in the past two years! I am about to take a position as U.S. President for Emeco, an Australian based company that sells and rents used earth moving equipment and parts. This will entail a move to Houston where their U.S. headquarters are located. So, after the first of the year some of you may be seeing me as I embark on this new aspect of my life. Some of you may wonder if I have been able to finish my auto restoration projects. Well. The 1946 Dodge Power Wagon did make it out of the garage and was able to drive around the block without any dramatic side effects. It still needs the bed and some final finishing touches, but should be able venture out and get licensed to travel the streets next year. Then we will get to start on the two Plymouth Furys that are in storage."

**Terry Mudder** (Chem74) and his wife Karen own TIMES Limited and are independent consultants working primarily for the hard rock mining industry worldwide.

Recently he has been working in Eastern Europe and Latin America. Wife Karen has been working primarily in China and South Africa. They have two children, Alex and Hanna.

**Randy Nelson** (GeolE71) wrote, "I retired from the city of Dallas Water Utilities Department in April 2003 and started working for the City of Fort Worth Water Department. After only nine months there, I began working as a sales manager for Hobas Pipe USA, a manufacturer of fiberglass pipe used primarily in the wastewater industry. You can see my picture on the company's webpage <[www.hobaspipe.com/randy\\_nelson.asp](http://www.hobaspipe.com/randy_nelson.asp)> if you want to see if I have changed after 34 years.

**Eugene Quinn** (CE70) is building a townhouse development with **Mike Alley** (GeolE73) near Keystone and he has other building sites available in the Black Hills.

Judi and **Robert Quinn** (CE77) finished building their house in June 2006. They live midway between Hill City and Keystone and they are trying to convince Nancy and **Loring Knutson** (CE77) to move back to the Black Hills so Loring can run the construction business and Bob can goof off. Any advice or thoughts welcome at <[quinnco@iw.net](mailto:quinnco@iw.net)>.

**James Rankin** (EE78) is working at the Ohio University. In addition to the interesting aviation research, there is plenty of opportunity to fly. Their daughter Kara and Anna attended OU. Son Daniel is still at home (... and driving now?). Wife Wendy works as a job coach for Developmentally Challenged

Adults.

**Richard Salverson** (Chem70) and wife Jeanette are back in the U.S. (Texas) after eleven years in Australia and then England. He works for Raytheon. Their oldest, Marcia, worked on a raptor rehabilitation and release programs at the Healesville Animal Sanctuary near Melbourne, Australia. Their other daughter, Elizabeth, graduated magna cum laude from the University of New Mexico and is a CPA working in Colorado Springs.

The construction company **James Scull** (CE74) started in Rapid City more than 20 years ago is doing great. The company employs an average of 150 people year around. **Mike Wellman** (CE78) has been a great addition to his staff.

**Randall Shaw** (EE70) is enjoying retirement at Tonto Verde Golf Club, he plays golf with **Ed Olson** (ME61). **Dean Rafferty** (ME70) just purchased home in the area. Every spring Randall is seeing **Bob White** (CE72) and **Tom White** (MetE76) when they come for a visit.

**Lester** and **Alice Anne Snyder** celebrated their 25th wedding anniversary. They were married March 1, 1980, in Rapid City by her son, Judge Jeff Davis. Both are retired from School of Mines - Les as professor emeritus in Mechanical Engineering (1959-1985) and Alice as administrative secretary in Surbeck Center (1970-1985).

**Lyle Steffen** (Geol70) retired from the United States Department of Agriculture and has relocated to Sioux Falls, South Dakota to be near family. He is planning to build a home in

the Black Hills in 2007 and relocate once again.

**Brett Stenson** (MinE79) was deeply grieved at the loss of alumnus **Doug Brannan** (MinE85). Other alumni that continue to miss Doug include **Jason Kahl** (ME84), **Brad Coleman** (GeolE85), Kathy and **Jeff Hocke** (ME85), Stephanie (Missy) and **Brett Stenson** (MinE75) and **Jerry Ogden** (EX85). "Doug is missed terribly by all of us and everyone keeps Teresa and girls in their thoughts and prayers." On a less serious note, Brett invites all to be sure to stop by when you are in the Hill City area to their specialty retail shop and custom framing business <www.woolnstuff.com>. This converts to the "Ugly Fish" Beer Garden during rally week with fellow Mines Grads **Dan Coon** (MinE78) and **Brad Chase** (MetE78). Our son Sean is now a senior GeolE student at Mines, following in his Dad's footsteps. It is only be natural that our daughter Samantha follows in her mom Stephanie's footsteps attending BH for her teaching degree. Our other two children, Ashlee and Seth, keep us busy with school and their extracurricular activities in the Hill City School System.

**Raymond Symens** (MetE73) has worked for Tetra Technologies for almost twenty years and is their Senior VP. They love The Woodlands and Texas. They enjoy life living at Augusta Pines Golf Club, of course, being grandparents multiple times.

**Van VanderGeest** (EE76) emailed that he "changed jobs, left Texas, and moved back to Missouri. I am back with Electritek, the company I worked for in Denver for 10 years. My new position as Central

Region Sales Manager allows me to work at home, travel the central part of the USA, and use my technical selling ability to make a great living. We are always looking for EE's with experience in TI 20Z70, Z80, Z90 battery fuel gage chip design. I have 2 kids in college."

**Bob Vonderahe** (ME76) is finally back in the Bay Area after spending nearly three years in Washington, DC, developing an expansion program for the Department of Homeland Security. He is now managing a task charged with the Design/Build expansion of the San Jose, California airport. Project is expected to exceed \$520 million and has short four-year duration.

**Bill Wallace** (MinE78) has been moved to the Denver area with Rio Tinto Energy America. Bill and his wife, Mary, have since relocated to Highlands Ranch, Colorado. Their son, Cory, has recently been deployed to Iraq with the Army's 1st Cavalry Unit based out of Ft. Hood, Texas. Their daughter, **Sarah Lungren**, (IE06) is employed with Kennecott Utah Copper at the Bingham Canyon Mine as an operations engineer. Their youngest son, **Adam Lungren**, is a junior at School of Mines working on a degree in ME. e-mail from **Mark Wismer** (EE78) includes: "I am still involved in the start up phase of a new company to develop and sell equipment to the wood truss industry. We've had our automated jiggling system out for about a year and a half, now. We just got our third patent on our system, so we'll probably have to see how good they are soon. I am spending a large amount of time doing installation and integration

of the equipment into customers' truss design systems. Since we have several new products in mind, I think I'll be busy with this for awhile."

**Jerome Wright** (CE71) was recalled by the 3rd Army for Operation Iraqi Freedom, and will be stationed in Kuwait for one year.

**Daryl** (EE79) and **Deborah Zimmerman** (Chem80) moved again. After four years in Beijing, China, and short visit back to the Sturgis area, they are now living in Manila, Philippines.

## 1980's

**Glenn Alexander** (MinE84) recently started a new job at Newmont Mining Corporation as a Senior Closure and Reclamation Engineer.

**Jerry Beckman** (EE84) and Marie Williams (Giddings, Texas) met at a country dance hall in Austin, and two months later they were engaged. Their wedding was in Rockdale, Texas. Their home is on her ranch 10 miles northwest of Giddings, Texas.



*Marie and Jerry Beckman  
(EE84)*

**Ulf-Eiel Bach** (ME87) has left engineering and entered into the wine import business with Margron Skoglund Wine Imports



a few years ago. They are importing and distributing wine from all over the world, which involves several trips to Europe and other continents every year.

**Randy Baker** (MinE86) moved his family to the Chicago suburbs a few years ago for an opportunity with Case New Holland. He is now President for Case New Holland's North America Agricultural Division.

**James Bier** (CE84) and his wife Lea were please to send daughter Marisa to Michigan State University so they could enjoy visits and Spartan Football on the weekends. He is managing projects for Wolverina Fire Protection Co. with current jobs in Atlanta, New Orleans, South Carolina, and Guam.

**Ronald Blum** (CE80) returned to Rapid City in November of 2003 after a 2-year stint in Billings, Montana, and has been with MDU since 1980, now as a Senior Region Engineer "making a little more money." Connie and I love being back in the Black Hills where we grew up and where our parents, kids, and grandkids live.

Dahl-Stamnes family, **Reah** (CE81) and **Knut** (CE80) have been overseas since 1995. They even managed to visit **Deb** (Chem80) and **Daryl Zimmerman** (EE79) in Beijing a few years ago for Easter.

**Rodney** (CE82) and **Dorothy Eisenbraun** (CE82) have a daughter, Valeri, who is a sophomore at School of Mines.

**Scott Eliason** (MinE83) wrote, "I was the Director of Operations of Xircom, but through the last acquisitions I decided not to work for the acquiring company and started my own business. I have a patented product that has

been licensed to a company and released to mass market. I have two daughters, Sydney and Taylor, and my lovely wife Betsy. We currently live in Monument, Colorado. Now that **Tony** (CSC86) and **Dulci Jensen** (MinE84) have moved to the area we are trying to get together more often. It's great to have an old college roommate around. For all you alumni that need a new hunting gadget go check out the CrossFire Sling in all the major sporting goods stores."

The photo below remembers the thirty-four alumni in attendance at the wedding of Wendy and **Wade Fott** (ME88) in Erie, Colorado, and it recently surfaced again in the Alumni Office. This was perhaps one of the largest gatherings of alumni at one wedding. Remembered fondly since this event, is alumnus **Kevin Murphy** (EE87) who passed

away in 2006.

**Ray Greff** (MinE81) has been a broker for almost twenty years at AG Edwards & Sons, Inc., but there are times he still misses mining. "School of Mines had a positive influence in my life. They have done an excellent job so far building the MEM program." Ray complimented **Chuck Kliche** (MinE74) as doing "an excellent job of moving MEM forward." He continued, "mining is too important to our country to be red-taped out of America. Keep lobbying for a strong school and mining industry."

**Dr. Randy Guliuzza** (MinE84) received an enthusiastic welcome from each of the sixteen churches on the ICR Creation Presentation tour and was able to speak to over 1,600 people. Those who came shared that their faith and understanding were encouraged



*Front Row: John Carter (ME90), Jeff Berry (ME88), Colin Sukow (GeolE89), Bryan Walz (GeolE87), Dan Walter (EE90), Paul Cameron (EE90), Dave Harr (EE90). Back Row: Dan Carlson (EE83), Eric Aasen (ChemE88), Wendy Grangaard (CE90), Joe Pekarek (EE88), John Birrenkott (EE89), Steve Hurd (ME90), Matt Beilby (IE93), Murray Shattuck (EE88), Craig Potthast (ME88), Mike Coe (EE87), Jeff Johnson (EE86), Mike VonKaenel (ChemE87), Tim Woodhouse (CSC88), Brent Steadman (ChemE88). Middle Row: Kristin Stewart (ME91), Julie Terrill (ME 90), Betsy Rall (MetE89), Corey Jacobs (ME91), Garry Black (ME90), Steve Ochsner (ME91), Wade and Wendy Fott, Brad Johnson (EE92), Bruce Conlee (EE65). Not Pictured: Kevin Murphy (EE87), Joe Anderson (ME91), Jon Week (IS96), Justin Briggs (ChemE98).*

by hearing "The Importance of the Doctrine of Creation" and the scientific evidence for creation presented in "The Design of the Human Visual System" and "Mt. St. Helens: Explosive Evidence for Design".

**Paul Hight** (MetE86) continues his work in the Black Hills at the Gilt Edge Mine Superfund Cleanup Site for CDM Federal Programs Corp. He coordinates Operation and Maintenance work efforts for the 24/7 project. In 2003, they commissioned a new High Density Sludge (HDS) water treatment plant at the site. It is running very well and discharging high quality water batch into the environment. A number of "cutting edge" innovative remedial technologies are being evaluated at this site. At this writing, their daughter Hollie was anxiously awaiting the arrival of a little brother.



*Hollie Hight waiting for a little brother*

E-mail from **Mary Nelson Himmler** (Chem88) shares: "My son Mike is currently a student at a small college in Louisiana. My daughter, Michelle, has returned

from Iraq and is a full-time student at School of Mines."

Edgemont Mayor **Mark Hollenbeck** (ChemE82) has resigned, effective October 1, because he is moving out of town. Hollenbeck is moving to the family's Sunrise Guest Ranch north of town, where he will manage the day-to-day operations of the ranch and lodge, he said in a letter to the Edgemont City Council.

**Scott** (CSC86) and **Karleen James** (ChemE86) moved back to Texas. Their email is <[www.xanga.com/smjkkj85](http://www.xanga.com/smjkkj85)>.

David and **Joni Kachelhoffer** (CE81) have lived in Newcastle for the last 10 years. David works for the Wyoming Department of Corrections at the minimum security facility. Joni continues as WYDOT's Resident Engineer for the Newcastle area. She loves her job and the people she works with. They are adjusting to an empty nest. Daughter, Charla started school at SDSU (not in engineering). Son Kyle is at Dickinson State College. Son Jay is a sergeant in the US Marine Corp currently stationed at Kings Bay Naval Base, Georgia. We have one grandcat and one granddog.

**Charles Logan** (MinE83) reported his work as Commanding Officer of USS Bremerton. He home ported in Pearl Harbor, Hawaii. Bremerton is the eleventh Los Angeles class submarine built by the US Navy.

Nancy and **Patrick London** (EE85) moved back to Minnesota after being in Austin, Texas for nine years. He is in the same office building in St. Paul, Minnesota where he started his 3M career after graduating in 1985 from

School of Mines.

**Steve Malone** (ME83) and son **Mike Malone** (ME06) of Malone Engineering were spotted near the Surbeck Center ready for a proposal presentation for a project on campus (see photo). Both were also hosts last fall for a barbeque at the company's anniversary party serving great food and company. Daughter of Steve and Cherrie Malone, Lady Hardrock guard **Jennie Malone** (IEng Rapid City), earned postseason honors, making the DAC third team. Malone joined the team at the conclusion of the volleyball season and totaled 302 total points, averaging 11.6 per game.



***Steve** (ME83) and **Mike** (ME06) on their "bikes"*

After four years in Lexington, Kentucky Barbara and **Douglas Martin** (ChemE81) have decided to make a change. Douglas started working as Chief of Clinical Operations, Radiation Medicine, at James Cancer Hospital at Ohio State. Barb is still teaching kindergarten and will look for a similar job in the Columbus area. Their son, Chris, is teaching English in South Korea and enjoys new experiences. They would like to contact alumni, and their email is



<douglasmartin1@mac.com>.

**Tom McCarthy** (EE82) sent a note: "I am still alive and well in Seattle, Washington. It is hard to believe it has been 25 years since the days at School of Mines. I would love to hear from old friends, my e-mail is <Tom.mccarthy@tectura.com>."

**John Mette** (EE89) wrote, "In 2003, Daktronics moved my family and me to the vicinity of Frankfurt, Germany to open Daktronics' first European office. This has been a very interesting entrepreneurial experience, made somewhat more challenging by having no understanding of the German language. However, we muddled through and now have some German employees on staff, which has made things considerably easier. My family has also made the adjustment. We are scheduled to come back in 2006, (we show John as back in Brookings now). Drop me an e-mail at <jmette@daktronics.com>."

**Barbara Nielsen** (GeolE85) has been with Phelps Dodge for year and a half. She would love to hear from all GeolE85 alumni.

L-3 Communications recently named **Susan D. Opp** (EE85) a Corporate Vice President and President of its Communication Systems-West (CS-West), division. In 1986, Susan Opp began her career as an associate engineer with Sperry Univac and has held positions of increasing responsibility in engineering, product and business development, and program management at L-3's CS-West division. Her most recent position was as Vice President of Strategic Development. She also earned master's degree in business administration from the University of Utah.

Natalie and **Richard Palmer** (ChemE82) adopted Titus and Kiera from Taiwan in June of 2006. They are seven and six years old and speak English quite well after only four months.

**Brad Pekas** (GeolE85) was promoted to VP/Geosciences for ECT. He is responsible for the technical and business oversight, and management of all scientists, engineers, and technicians.

Nicole and **Brian Pelton** (MetE89) enjoy life with their boys, Donovan and Keegan, both destined to become soccer players someday.

**Robert Peterson** (EE87) and his wife moved last year from the western side of Tennessee to the Southeast corner in the city of Chattanooga, Tennessee. He is still working in the medical device world, but now outside of corporate and in distribution. He also started a new venture in anti-aging skin care and recently launched a new brand called MODUS-controlled PH skin care system. The creams are produced in Sicily and are distributed through plastic surgeons and dermatologists. Robert would love to hear from any of the Delta Sig alumni from '82-'87, and his e-mail is <rpeterson.fcm@mac.com>.

**John Rathbun** (MinE84), brother of Theta Tau Omega Chapter was initiated into a very formal and ancient miner's fraternity in Austria. The 'apron' is a miner's belt that was used by miners to sit on and slide into the mine via an incline. There was a church service after the peregrination from the plant gate to the church (2.5km). John was the only one inducted and had to guzzle a beer while standing atop the



*John (MinE84) donning the miner's belt*

barrel (in front of the 140 guests) and then jump over the miner's belt. John emailed, "I didn't throw up or land on my face ... all those Theta Tau parties now have more significance."

Sandy and **Marty Ryberg** (EE84) are still living in the suburbs of Seattle and surviving the rain. Marty has been supporting several companies in the area as a consultant for several years — nice mix of hardware, software, and systems design with a bit of marketing and project management now and then. His wife enjoys a similar career at Honeywell as a software manager. Their older child, Chelsea, is in the 2nd year of an engineering program. Her sister, Caitlin, is in her second year of high school — thinking of a non-technical field.

Anne and **James Torstenson** (EE85) recently moved to Duluth, Minnesota and love it. Alumni in the area should give them a call and stop by.

**Michelle (Rohr) Vondenkamp** (CSC89) emailed, "I always say that I made the best friends of my life while at School of Mines and through joining Alpha Omega Epsilon Sorority. Although we now live from coast to coast, a group of girl friends gets

together every one to two years for a weekend of fun. We met the weekend of November 4 in Minneapolis, Minnesota for a Girls Weekend of catching-up while relaxing with massages, facials, shopping, dining, and a visit to a piano bar. We had a great time catching upon the changes in our lives over the past 15+ years! You might recognize some of the names: **Julie Heinrich** (ME91), **Roxie Gittings**, **Merry Ortberg** (ME93), **Suzie (Richter) Hammers** (EE82), **Kim Arneson** (ME00), **Annie Thompson** (MetE98), **Tracy (Lee) Barlow** (ChemE88), **Sherry (Minor) Moore** (CSC89), **Michelle (Rohr) Vondenkamp** (CSC89), **Nancy (Wells) Nixon** (CSC89)."

Tami and **Tim Vottero** (Chem84) have "one off the payroll" as their oldest daughter Breanne graduated from School of Mines last year and got married the next day in Rapid City. Son-in-law Ian and **Breanne Lundin** (ChemE06) now live in Midland, Michigan where Bre accepted a position with Dow Chemical. Second daughter **Corinne** is a senior in Industrial Engineering at School of Mines, planning to graduate in May '08. Daughter #3 Amanda graduates from high school this spring and plans to attend USD. Jonathan (age 10) keeps everyone young and busy.

**Michael Weber** (ME85) is sending greetings from Marietta, Georgia. He and his wife Amy continue to enjoy life in the South. His supply chain role with Huber has been very challenging and rewarding.

**Daniel Welsh** (ME87) has been working for FM Global since graduating from School of Mines. He and his wife Nina are blessed with two children, Ella and Luke. He says hello to the "4 Idlewood"

and the "St. Joe's Street" crews.

**Gregory Wermers** (CE80) wrote, "In 1998, two partners and I created Blackfoot River Brewing in historic downtown Helena, Montana. Each year, we increased our production. Through 2003, we have produced almost 3000 kegs. We distribute traditional draft beer throughout Montana. In 2001, Clare Urban and I were married in Spearfish. She has her own physical therapy practice in Helena.

LTC **Lisa Zacher** (Chem85), MD, FACP, FCCP was presented with an award naming her to the "A Determinate List." This award designates her to be ranked in the top 10 percent of all Military Doctors. She is also the only pulmonologist to make the list. Lisa is stationed at Ft. Bliss' William Beaumont Military Medical Center in El Paso, Texas. She is Internal Medicine Program Director and Chief of Pulmonary and Critical Care at the hospital.

## 1990's

A new "Music Alum" baby photo was posted by Jodi and **Lonny Ackerman** (ME95). Tara Jane Ackerman was born Sunday, January 14, 2007, and weighed 6 lbs, 13 oz. and was 19 inches long.



*Tara Jane Ackerman*

**Jacob Bartels** (MinE99) is Assistant Supervisor of Mining at Vulcan's largest Quarry (8 million tons), the fifth largest in the nation, located 15 miles SW of downtown Chicago. He is in charge of all drilling, blasting, loading, hauling, and crushing through the primary crusher. In his four years with Vulcan, he has also been involved in an \$8 million plant expansion, 4-rail distribution yards, and shipping at the McCook Quarry.

**Kevin Berg** (ME99) moved to Sioux Falls to work for Graco, and then started First Manufacturing. **Emily Errea-Berg** (ME99) is working for Broin. Their work and three children Charlie, Sadie, and Thomas, keep life busy indeed.

Jill and **Bruce Boehrs** (ME91) are blessed with the arrival of Olivia Rachel Boehrs on February 2006. She joins big brother Brian (7), and big sisters Stephanie (5) and Katie (3). Jill is a busy and happy mommy who coordinates all of us. I am the one who stays home to enjoy it all when I can and work occasionally when I should.

**Tim Burtram** (EE94) started a new job in Columbus, Missouri with a start up company that is building a new steel mill. He is the lead electrical engineer and is in charge of power distribution, instrumentation, and automation for the plant. The move allowed him the opportunity to be close to home (Birmingham, Alabama).

Carly and **Trevor Davenport** (Geol96) have a new addition to the family — Carvor James Davenport was born on July 16, 2006. Everyone is healthy and they all could just use more sleep.



Younglove Construction L.L.C. has promoted **Ken DuBois** (CE95) to Vice President. Ken DuBois has been a project manager with the company for the past 10 years. After working as a project engineer for a major national construction firm, he joined Younglove in 1997. As a Younglove employee, DuBois has helped in the management and design phases in the construction of industrial facilities. Ken, his wife, Jenny, and two young sons reside in Sioux City. DuBois was also named one of Siouxland's most influential leaders under the age of 40 in 2002.

Bill and **Tina Feist** (ChemE93) celebrated their first anniversary and she feels blessed with her husband. They are enjoying their life in North Carolina, she is working as a quality manager, and Bill is a nurse.

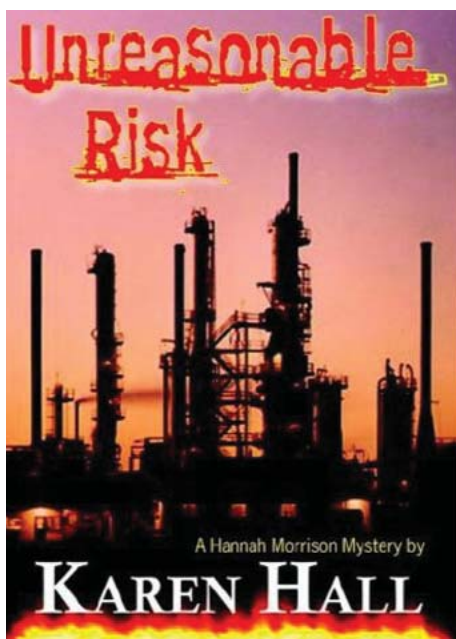
**Mary Fivecoate** (ME99) is happy she found a job closer to home. She loves the town — a little town of 3,000 people located 55 miles from Sioux Falls. She is happy with her job too, where she manages about a dozen people. Her daughter Christina is growing up fast! She recently read her first book. Mary bought her first house and would like to hear from alumni. Her email is <mbzer@juno.com>.

**Tammy** (IE96) and **Travis Gorsuch** (ME97) welcomed their son, James Thomas, into their family on September 1, 2006.

Brian and **Rachel Hagen** (ME98) were married in her hometown of Hallock, Minnesota. Rachel wrote, "It was a beautiful day!" They are happily enjoying married life in their home in Racine, Wisconsin, where they both work for Modine

Manufacturing Company.

**Karen Hall** (ChemE91) recently published her first fiction novel, *Unreasonable Risk* about an environmental engineer who is trying to stop an industrial saboteur at an oil refinery. The Rapid City Journal described Karen Hall's first fictional work as one that "reveals not only a tightly written mystery packed with potential suspects, but offers a glimpse inside the world of refineries." Karen Hall was one of only 45 women out of the 450 people employed at Koch Refining Company in Rosemount, Minn. Karen has hosted several book signings in Rapid City, where she and husband, alumnus **Jeff Nelsen** (ME91) reside. Karen is also working on her second novel, featuring the same lead character, Hannah Morrison. It is set in the Black Hills. *Unreasonable Risk* is available at (800) 358-8101 or via <www.archebooks.com>.



*Unreasonable Risk*-Karen Hall  
(ChemE91)

After six years of being on the staff of regional hospital's Psychiatric Department, **Ken Hargens** (IS96) was persuaded to get another degree — this time as a registered nurse!

**Jade Kizer** (EE99) emailed that "Things have been busy here in North Carolina. We just had our third child, Claire Nicole, on November 13, and she is doing great. Michelle and Elliot just turned three and two.



*The Kizer family*

**Sheryl (Cossins)** (ChemE94) is enjoying being able to stay home for the time being. I recently received a promotion to Principal Engineer that had to be voted on by all the managers within Rambus. A paper that I co-authored will be presented at ISSCC this year. I also filed my 20th patent this year. My job continues to focus on technology development for high speed interfaces."

**Paul Larson** (ME93) updates, "God continues to bless Amy and me — we have five wonderful children, a nice house, a good church, family close by, and a good job. Please send us an e-mail if you want to catch up old times at <vegetalepacs@aol.com>.

**Trisha Larson** (CSC94) continues to work at Rockwell Collins in Cedar Rapids, Iowa, as the project engineer for autonomous ground and air vehicle research and development team. 2005 was an exciting time, when they participated in the DARPA Grand Challenge. "Our vehicle was one of only five to complete the 135 mile course across the desert, with no driver and no remote communication." Trisha is currently on leave to care for their new son, Trey born on July 21, 2006.

**Joseph Lincoln** (ChemE97) e-mailed, "I have enjoyed reading the news of classmates and decided to give an update. I am going on six years with Fleetguard-Nelson in Stoughton Wisconsin as Emissions Engineer. I have purchased a home in Madison, which I spend my free time remodeling. I would love to hear from old friends at <joe.c.lincoln@FgdNel.com>."

**Britt (Russman) Machacek** (GeolE92) and **Paul Machacek** (ME90) emailed that she is working as a Senior Environmental Representative for Target Corporation in their corporate headquarters in Minneapolis, Minnesota. Paul works as a Research and Development Senior Mechanical Engineer for Guidant Corporation in St. Paul, Minnesota. Guidant is a leader in the design and development of cardiovascular medical products.

**Margaret Parmenter** (CSC91) e-mailed, "Last year Exxon Mobil offered my husband Tim a new job opportunity in Kuala Lumpur, Malaysia. We jumped at the opportunity and were transferred in November (newborn baby in tow!). We are thoroughly enjoying

the adventure of traveling, meeting new people, and experiencing a new culture. Our children, Jack-9, Bridget-6, Luke-4, and Mark-1, are growing quickly and having a great time in Malaysia."

**Jessica Ryan** (IS95) stays home with their children, Nicholas who is almost four and PJ who is 20 months, while Michael works at Goodyear in Akron, Ohio.

**Sandi Shunkwiler** (MetE95) has been with ABB more than year as the supply chain manager. Sandi and her husband Todd bought their first house. Sandi is enjoying being able to paint and decorate without worrying about a landlord. Florence, South Carolina is hot as Hades May-September. So if alumni visit, they can make a trip to the beach.

**Clayton Voyles** (EE95) writes, "My youngest daughter, **Heather**, is starting her freshman year in the Chem department. She has that dazed 'I can't believe the amount of homework' look in her eyes already!"

**Michelle Walker** (IE94) wrote, "I am living in Michigan and working for Ford Motor Company in Powertrain Quality. I am also venturing into a home-based company."

**Raymond Wright** (MinE92,) besides crushing rock 70 hours per week as the Quarry Superintendent at Asphalt Paving Co (Ralston Quarry), he also runs a 160-acre farm and raises quarter horses in Colorado.

Susan and **Scott Wuitschick** (MinE92) are expecting their third child in January 2007. Scott is now working as a project

manager for an engineering consulting firm. He is enjoying his new job and the opportunity to broaden his experience base.

Lisa and **Todd Youngman** (CSC97) are proud parents of a baby girl born on March 26, 2006. The photo shows daughter Elizabeth Vicenza in her first School of Mines sweatshirt given to her by her uncle **Jim Youngman** (CSc87).



*Elizabeth Vicenza Youngman*

## 2000's

**Lindsay (Young) Bouman** (IS01) and **Tate Bouman** (MetE99) were married in Spearfish Canyon and live in Hot Springs. Lindsay is an RN for Fall River Health Services and Tate is a high school math teacher for Hot Springs School District.

**Andrew Farke** (Geol03) continues to pursue paleontology, through the Department of Anatomical Sciences at Stony Brook University. He is still managing to keep active in the rocks. He was sent to Madagascar for a month



of fieldwork in the Late Cretaceous deposits there. His thoughts went back to Dr. Davis' hydrology class, as one of his professors has founded an organization that finds wells in the village that served as their base camp.

**Alan Gertonson** (ChemE01) emailed that he now works for National Starch as the Facilities Manager in Indianapolis, Indianapolis. He continued, "Robin and I are currently exploring an opportunity to buy a furniture company in Ohio. I have been serving on the board. Robin has been serving as the COO and Chairman of the Board. Things seem to be going very well. We got married in February 2004. I have two stepsons, Alec (10) and Aaron (7). Robin and I also have a daughter, Ashley (2). We are



*The Gertonson family*

currently expecting our fourth child in August. E-mail me at <rocker60@spamcop.net>.

**Lee Gunderson** (ME03) and **Stacy (Watters) Gunderson** (GeolE06) married on May 20, 2006 in Custer, SD. Since the wedding they moved to Washington. Lee is working for Boeing as a mechanical design engineer and Stacy is working for Cascade Surveying and Engineering as a civil design engineer. They have a



*Stacy (Watters) Gunderson (ChemE01) and Tatum*

daughter, Tatum Eve Gunderson, who just celebrated her first birthday!

**Mychal Hoffman** (CEng02) emailed that he is working for Electrical Consultants Inc. (ECI) in Billings, Montana. <mychal.hoffman@eciblg.com> as a Substation Design Engineer. "On a personal note, I will be getting married on April 28, 2007 here in Billings."

**Cullen Jorgensen** (CE02) and **Traci Costello Jorgensen** (ChemE01) were married July 24, 2004. They have since had a little girl named Kylie Margaret born on April 7, 2006. She weighed



*Kylie Margaret Jorgensen*

seven pounds and was 20 inches long.

A note from **Janaki Kora** (EE03) said, "My sincere appreciation to SDSM&T Alumni Association for providing me an opportunity to serve the institution that led to the success of my life."

**Trevor Krause** (EE05) and **Jennifer Wentz** (CE05) were married on October 7, 2006 in her home town of Lemmon, South Dakota.

**Brent Kuhn** (MinE00) is a roadway field engineer on a \$400 million design build freeway connecting San Diego to the Mexican Border.

**Erin** (IS03) and **Mathew Meyer** (ME04) had a baby. His name is Coy Clarence. He was born August 27, 2006 and weighed 7 lbs, 3.3 oz and was 19.5 inches long.

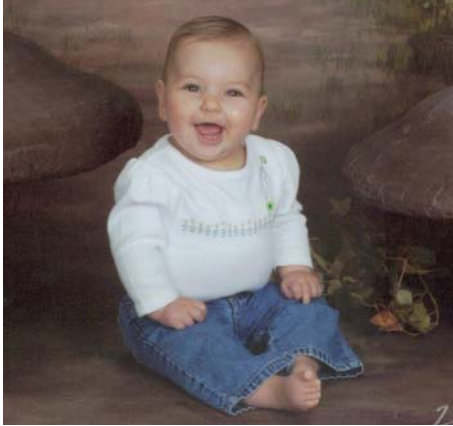
Congratulations go to the "Mittinti Triplets" who each received their masters degree in May 2006.



*Smitha (M.S. CSc06), Monica (M.S. TMgt06), and Sindhura Mittinti (M.S. CsC06)*

Steve and **Trudi (Wardle) Morrey** (GeolE00) remember their special day when they married each year on Valentines Day.

Marianna and **Todd Morrison** (ME00) were blessed with the birth of their first child in March 2006. Sarah was 8lb, 8oz and 20 1/2 inches long.



*Sarah Morrison*

**Karen (Carda) Muerkle** (ME01) emailed, "We are going from Waterloo, Iowa and to Saltillo, Mexico with John Deere. My husband is getting transferred down there to be a project manager and I am going to take a leave of absence from my manufacturing engineering job with John Deere to be a stay at home mom with our three kids. In the mean time I'm going to learn Spanish and attempt to get my master's degree in manufacturing operations (online since I don't know enough Spanish yet) while I'm down there. It is a great opportunity and we are extremely excited to go! I hope all of you in the Alumni Office are doing well. I will never forget the time I spent working there so I never forget to change my address with you. Take care!"

**Desmond Ottmar** (CEng02) is engaged and is getting married on May 26, 2007.

**Jason Sanderson** (CEng03) e-mailed that "Business at Rockwell Collins is great. I've accepted a new position as a lead for a portion of software for a software defined radio project in Government Systems. We are always looking for good software engineers, so if you have anyone that is interested, please feel free to forward me resumes. I am one of the interviewers for my department. I've just started my MBA degree at University of Iowa. I finished my first semester in November — so I've got a long ways to go — but it has been interesting so far." E-mail: <jtsanderson@mchsi.com>.

Lacy Sabo and **Andrew Shearer** (IE03) were married in Hot Springs by the Rev. Bill Hauck. Andy is with Burlington Northern Santa Fe Railroad. The couple lives in Lincoln, Nebraska.

**Kjetil Sirevag** (M.S. TMgt04) married Elissa Holm from Edina, Minnesota in July 2006. They plan to live in Norway for a few years, before they move back to Minneapolis.

**Gavin Woltjer** (GenSt02) married Melissa Jensen at the Cathedral of Our Lady of Perpetual Help in Rapid City by Deacon George Gladfelter (former SDSM&T staff).

*You may have noticed that this issue of the Hardrock has more pages than previous issues. Extra pages have been added to this issue to allow for the printing of Class Notes and Memorials previously not published in the Hardrock. Please enjoy reading more about your classmates and friends in this issue than ever before! Please keep your submissions coming.*



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## Chemical and Biological Engineering Ph.D

- Research grant funding available for students
- School of Mines researchers generate nearly \$14 million in research awards annually
- World-class recreation opportunities in the Rapid City and Black Hills area

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**For more information, contact:**

Dr. David Dixon  
Chair and Professor, Chemical and Biological engineering  
(605) 394-1235  
<David.Dixon@sdsmt.edu>

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- Nearly 80 percent of School of Mines graduates have relevant work experience through co-ops and internships. That increases their marketability to employers.



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- 2005-6 graduates averaged starting salary offers of nearly \$50,000 and 95 percent placement! That shows employers are looking for students with the kinds of skills School of Mines graduates have.



# Memorials

## EARL PEIRCE AALSETH, SR.

**Earl Aalseth, Sr.** (GeolE52) of Billings, Montana is remembered. Born in 1924 in Mitchell, he entered the U.S. Navy, serving for four years. Earl worked for Amerada Oil until 1958. He began working for Bankers Life Insurance Co, which later became The Principal and continued there until retirement in 1990. Earl married Loraine Abein in 1950 and they had four children. He was involved with a number of service clubs and groups in Billings and his family have been members of the First United Methodist Church for decades. Hunting, fishing, hiking, backpacking, and caring for and riding his horses were some of his favorite things to do. The last 11 years of his life, he was a devoted care giver for Loraine after she became disabled.

## FLOYD CHRIS ANDERSON

The Alumni Office received notice that **Floyd C. Anderson** (Phys51) passed away.

## PAUL HERMAN ANDERSON

**Paul Anderson** (MetE43), 85, formerly of Sanator, South Dakota, passed away on November 24, 2006, at his residence in Rapid City. After graduation, he earned an M.S. in 1949, and a Ph.D. in Metallurgy in 1951 at the University of Minnesota. Paul married Carol Carson in 1943 and they had four children. Paul worked as a research engineer/scientist in labs from Los Alamos, New Mexico to Brookhaven, New Jersey. He was an instructor and professor of metallurgy at several universities, including School of Mines where he also served as department chair. Paul also worked in various capacities for the Western SD Community Action Program, for the SD office of Economic Opportunity, and for SD AAA. Paul served for eight years as a member on the Rapid City Board of Education. Following the Rapid City flood of 1972, Paul served on

the Church Disaster Response Board and was a cofounder of the Board for Church Response. Paul is survived by his wife Peggy, whom he married in 1980; his daughters Lois and Elaine, his son Dan, his special Turkish-American son Fevzi, six grandchildren and one great grandchild; three step-children — Harlan, Dave and Sue Casavan, his sister Esther.

## WILLIAM ERNEST BAKER

**Bill Baker** (EE59) passed away in Huntington Beach, California. Bill grew up in Lusk, Wyoming. He served in the Air Force from 1951 to 1955 and then worked in the aerospace industry until his retirement from Rockwell Int. (Boeing). He married Myrna Nelson Baker in 1956 and they had four children. Bill was very active in Little League coaching his sons and umpiring many a game both while his sons were playing and for some time after they no longer played. He was also in Cub Scouts for many years with the boys serving for several years as Cub Master of the pack that they were active in and going on into Boy Scouts when they were older.

## JEFFREY SCOTT BLAALID

**Jeffrey Blaalid** (EE84) passed away in Mission Viejo, California of a heart attack. Born in Yankton, and a graduate of Mitchell High School and School of Mines, he moved to California to work for Rockwell International. Jeff married Kathleen Finley in 1989 and they have two sons, Douglas and Ryan. Jeff worked in computer research and development for storage solutions. At the time of his death, he worked for iStor Networks, Inc. in Irvine, California. He was devoted to his family and spent much of his time teaching Junior High Sunday School and running the church sound system.

## DOUGLAS C. BLACKWELL

**Douglas Blackwell** (MetE52) passed away August 28, 2006, after a short illness. Born in Rapid City, he has resided in New Providence, with his family, wife Jean, and their children, Michael,

Jeffrey, who is deceased, Dianne, Dennis, Theodore and Barry, since 1961, when they moved from Minnesota. Mr. Blackwell started his career at (USS) United States Steel International and was transferred to their international office in New York City. When USS left N.Y.C., he worked for (AMAX) American Metals in the same capacity. After his retirement, he worked at the Summit YMCA and TP Auto in Berkeley Heights. He served in the U.S. Navy from 1947 to 48. He played four years on the varsity football team at School of Mines. He coached some of his children teams in New Providence and maintained a lifelong interest in sports and supporting the YMCA.

## FRANCIS GEORGE BLOOD

**Francis Blood** (EE57) passed away September 18, 2006 in Midwest City at the age of 75 years. Francis enlisted into the United States Navy in 1950. He was honorably discharged in 1954 with the rank of AT-2. In 1962, Francis and Wiladean Dodson were united in marriage in Denver, Colorado. Francis worked for Sundstrand Aviation from 1957 to 1983, and Coin Acceptors Incorporated from 1984 to 1997 as Engineering and Manufacturing Management. Survivors include son Michael, daughter Joan, three stepsons, Robert, Don and Steve, stepdaughter Tina, one brother, 14 grandchildren and 13 great grandchildren.

## DOUGLAS DEAN BRANNAN

T-REX construction chief **Doug Brannan** (MinE85) is remembered as the respected road builder who pushed to keep southeast Denver's massive highway and light-rail project on schedule and within budget. Brannan died from the effects of a brain tumor that doctors discovered months prior to his death. Brannan worked for Peter Kiewit Sons, one of the lead contractors on T-REX, the \$1.67 billion Transportation Expansion Projects that built 19 miles of light rail and widened 17 miles of



highway on I-25 and I-225. Before coming to Denver to work on T-REX, Brannan was Kiewit's paving manager on the four year, \$1.3 billion reconstruction of Interstate 15 in Salt Lake City, Utah. Doug was born and raised in Sioux Falls. In spare time, he loved water sports. He often talked about how much he loved hanging out on his boat with "my four girls" — his wife and three daughters.

## DARYL DEAN BRISCOE

School of Mines remembers **Daryl Briscoe** (GenE59), who died at his home in Lenexa, Kansas. Born in Aberdeen, Daryl went to work for American Air Filter in Louisville, Kentucky. After a few years he transferred to the sales division in Minneapolis, Minnesota. His territory included South Dakota where he was responsible for nearly all HVAC units installed in South Dakota schools built until 1972. During his time in Minneapolis he was a board member of the JC's where he developed a fund raising event that more than 30 years later is still their largest annual fundraiser in terms of revenue. While in the Twin Cities he enjoyed golfing and skydiving, where he befriended some of the Minnesota Vikings. In the early 1970's he moved to Omaha, Nebraska where he became involved in real estate purchasing, renting, and selling. In the mid '80s Daryl moved to Kansas City, Missouri where he started his own HVAC and refrigeration business, which he was involved with until his retirement. During his time in the Kansas City area he was a huge fan and holder of season tickets for the Kansas City Royals and Kansas City Chiefs. Daryl enjoyed a personal friendship and golf with Hall of Fame quarterback Len Dawson.

## GALE E. BUTTERFIELD

**Gale Butterfield** (GeolE54), 75, passed away of a heart attack on Friday December 15, 2006 in Albuquerque, New Mexico. After getting his bachelors degree, he

received his M.S. degree from the Missouri School of Mines. After an eventful career in the oil industry that took him to Canada, Texas, Nigeria, and Montana, Gale retired to Farmington, New Mexico in 1989. Both the American Association of Petroleum Geologists (AAPG) and the Society of Petroleum Engineers (SPE) had him as a respected life long member. Gale is survived by his wife Carol, three sons Mark, Craig, and Brett; three stepchildren; John, Kenny, and Brenda; three grandchildren that he was raising; and nine other grandchildren whom he loved too.

## RALPH ANTON CHIADO

**Ralph Chiado** (CE50) passed away May 24, 2006.

## ROBERT GILDER CLARK

**Bob Clark** (EE48) was born in Omaha, Nebraska where he graduated from high school in 1935. Bob attended the University of Nebraska in Lincoln, graduating with a degree in economics in 1939. He subsequently earned a degree from School of Mines in 1947 and an M.S. in nuclear engineering from Oregon SU in 1963. After graduation, he moved to California where he worked for Douglas Aircraft and married his first wife, Janice Nuess in 1942. Bob joined the Army during WWII, and was in training with the OSS at the end of the war. He was in the Army Reserves for many years, retiring as a Major during the Vietnam War. He subsequently became active in Democratic Party politics. Bob and Janice had four children. He and Janice moved to Richland, Washington in 1948, where Bob worked for GE. In 1978, Bob received the Tri-Cities Engineer of the Year award and served on the State Board for Professional Engineers. Bob retired from Battelle Northwest in 1988 after more than 35 years in the nuclear industry. After Janice died in 1964, Bob had the privilege of falling in love and marrying Jane Hatcher of Kennewick, WA, in 1968, who passed away in 1987.

Bob met Olive Brewster in the spring of 1988, and they married later that year. He loved spending time with his family, playing golf and traveling.

## VERNON DALE CORRINGTON

**Vernon Corrington** (CE50) passed away August 15, 2006. He worked as an estimator for Brezina Construction Co. in Rapid City. He married Elizabeth (Betts) Vidal. Four of their children survive today: Lynne, Sharon, and Dan, all of San Diego, and Stephanie of Kahuku, Hawaii. The family moved to San Diego at which time Vern started his own general contracting business, Corrington Construction Co, which he ran from 1967 to 1993, when he retired.

## OLE FRIDTJOF DAHL

**Ole Dahl** (EE37) passed away in Bremerton, Washington at age 90. He was born November 22, 1912 in Sioux City, Iowa. Ole was predeceased by his wife, Florence, and survived by his daughter, Nancy Dahl.

## DONALD BYRL DAVIDSON

**Donald Davidson** (GenE38), Lt. Col., USAF (retired), age 90, of San Antonio, Texas, passed away September 22, 2006. He served in WWII as engineer officer with the US Army Air Corps in the China-Burma-India Theatre and later with the US Air Force Reserve, retiring as a Lieutenant Colonel in July 1976. Following WWII, he began a distinguished civil engineering career with the state of California where he retired after 25 years of service. He then served in an engineering capacity with First American Title Co. until his subsequent retirement in 1994 when he and his family moved to San Antonio, Texas. He is survived by his wife of 63 years, Mary Lou Tiffany Davidson and son Richard Alan Davidson.

## RAYMOND LEROY DAY

**Ray Day** (EE54), died in Maryland.

# Memorials

He was 83 years old. Ray hailed from Sturgis and had siblings in Rapid City. He spent his career with the FCC and retired from a position of responsibility.

## ARTHUR BERNARD DRESCHER

**Art Drescher** (Geol37) 93, died at his home in Medford, OR. Born in Princeton, Minnesota, he married Carolyn Heising in 1941. After earning his BS degree, he received a MS in geology from California Institute of Technology. He completed further work toward a Ph.D. while a teaching fellow at Caltech. He worked for Texas Power and Light Co. Then at the Lone Star Steel Co, he worked as geologist, director of the pilot mill and laboratory, mining engineer, chief engineer for mining and exploration, and in his final eight years with the company, as ore and coal division superintendent. He received a patent on a device for magnetic separation of roasted iron ore that he developed while working for Lone Star. He also worked for Shell Oil Co as a petroleum geologist in California, for Union Pacific Railroad Company's oil and mineral development department as manager of the Laramie district office, and for Creek Mining Co as exploration geologist in the southwestern U.S. His final fifteen years of professional employment were with Homestake Mining Co as chief exploration geologist in America and Australia. An important interest in his life was paleontology. He was a collector and preparatory for the SDSM&T museum and chief of fossil collecting parties for Caltech. He published several papers in paleontology and has a plesiosaur named in his honor.

## LEON EDWARD DRIES

**Lee Dries** (EE66) was born in Bowdle. In 1957, Lee joined the Navy and released with an honorable discharge in 1962. He married Jane Diehl in 1960 and

they had two children. He and Jane later divorced and then he married Margaret Cain in 1973. Lee and Margaret had six daughters. He earned two advanced degrees: one from School of Mines in EE and one from Lehigh in Metallurgy and Materials Science. He worked for Bell Labs, Western Electric, National Semiconductor, and for 17 years, owned and operated an electronic assembly business in San Jose, California. In 1999, he moved to Tehachapi where his major pleasure in life was farming. He grew raspberries, apples, and lavender. Lee was happiest when riding on his tractor, sharing his knowledge with others, and especially when he could love and laugh with his family.

## JOHN J. DUNN

**John Dunn**, professor emeritus of English at School of Mines is remembered for his many gifts to the university. Born in Milwaukee, Wisconsin, he considered himself a third generation South Dakotan, and grew up on his grandparents' farm north of Dupree. His grandparents were homesteaders who were married on the day South Dakota became a state. Dunn attended school in Dupree, Mobridge, Sioux Falls, Watertown, and Mitchell. He graduated from Notre Dame High School in 1949 and from St. John's University in Collegeville, Minnesota, in 1953. After two years in the Army, he attended graduate school at the University of Minnesota, from which he received a master's and later a doctoral degree in English. He also completed research at the University of Nottingham in England and studied for a year at the University of Southern California in Los Angeles. Dr. Dunn taught for several years at St. Vincent College in Latrobe, PA. He joined the faculty of School of Mines in 1961, and served School of Mines for the remainder of his teaching career except for one year at Gustavus Adolphus College in Minnesota. He received many awards for his teaching and service to students during his long

tenure. Throughout his years, Dunn established the Delta Sigma Phi Fraternity Memorial Scholarship, the Frances M. Dunn Memorial Scholarship, and the John Dunn Endowment at the SDSM&T Foundation. Upon establishing these funds, Dunn stated, "Teaching has been the very essence of my life, and - other than immediate family and a few close friends - my students have been the most important people in my life. What I give now is only a small token of my affection for them and my appreciation of what they have given me over the past years."

## JOHN WASHINGTON ENGLAND

**John England** (MinE40, GeolE48) passed away after the death of his loving wife, Mary England. John served in WWII. He worked in the steel mill as a geological engineer. John also played football for the University of Iowa Hawkeyes and earned two degrees from School of Mines.

## GEORGE MELVIN ERICKSON

The Alumni Office received a letter that **George Erickson** (MetE43) passed away in Tempe, AZ. He was born in Fruitdale, and was a retired Lt. in the U.S. Navy.

## JACK GAINES

**Jack Gaines**, Emeritus Professor of Chemistry passed away November 6, 2006. Dr. Jack Gaines served the institution for 37 years with distinction. He was a dedicated educator, fostered the environment for intellectual inquiry, and had devotion for quality education. As one example, Jack's accomplishments in the area of teaching, research and service were recognized by receiving both Presidential Outstanding Faculty Award and Outstanding Engineering Achievement from the National Society of Professional Engineers. He taught at School of Mines from 1957-1995.

## ROBERTA KAY GAINES

**Roberta Gaines** (M.S. Chem72, Ph.D. Geol86), 72, passed away on January 16, 2007, at the Golden



Living Center at Meadowbrook in Rapid City. Roberta was born in Butte, Montana and was an only child. Roberta married Jack Gaines in 1957 just before moving to Rapid City. They had one son, Brett, and one daughter, Holly. Roberta began work as a research chemist for Phillips Petroleum in 1956, before she married Jack. In 1970 Roberta began her 34-year teaching career by taking a position at St. Martin's Academy as a chemistry teacher. One year later she began teaching chemistry at Rapid City Central High School, where she taught for nine years, until taking a one-year break in 1980 to work on her Ph.D. She then returned to the Rapid City Area Schools where she continued teaching until retiring in 2005. In 1986 Roberta became the first woman to receive a Ph.D. from School of Mines by receiving a doctorate in geology. Her teaching career included more than 37 different honors and awards for excellence. Additionally, in 1977, Governor Janklow proclaimed April 8, 1977, as Roberta K. Gaines Day in recognition of her Education's Unsung Hero award from Northern Life Insurance Co. In 1985 she traveled to the White House to receive a Presidential Award for Excellence in Science and Mathematics Teaching. Roberta was involved in both professional and civic organizations, where she often took leadership roles. Memorials may be sent to the School of Mines Foundation for the Roberta Gaines Scholarship Fund to benefit and encourage female science majors.

## ALBERT A. GALLO

**Albert Gallo** (MetE41), age 88, husband of Carolyn, father of Marilyn, Kathleen, Michael and Susan passed away August 1, 2006. Albert was a former Structural Division Superintendent of U.S. Steel South Works.

## RUSSEL JAMES GAMBERG

**Russell "Gus" Gamberg** (GeolE50) Gus was born in Sioux Falls, SD and passed away in Lakewood, CO.

Gus's wife, Emojene (Dement), and his four children and family miss him to this day. Gus was also a member of AAPG.

## ELTON W. GEIST

**Elton Geist** (MetE47) was one of the leading figures in the iron taconite palletizing industry from its inception and was involved in laboratory research and process development as well as the construction and operation of palletizing plants in the U.S., Mexico, Canada, Brazil, Mauritania and Australia. In 1985, he was recognized as one of SDSM&T's Centennial 100 Awardees. Elton was born in Hyde Country in the central South Dakota prairies. After a family move to the Black Hills, he met his future wife, Doris Roeser, whom he married in July 1941. In 1942 he enlisted in the U.S. Army Air Corps and spent three years in the service, spending one year in the Army Specialized Training Program at City College of New York where he completed degree work in Mechanical Engineering. Like many others, when he was discharged at the end of the war he returned to school on the GI Bill and earned a Bachelor's degree in Metallurgical Engineering at Mines. His first professional position was with National Lead in Tahawus, NY, a titanium and iron mining camp in the Adirondacks. Then he worked for the Telluride Mining Company, which mined gold/silver/lead/zinc/copper ore at Telluride, Colorado.

## ROBERT ELMER GISH

**Robert Gish** (CE57) was born November 21, 1934 in Pennsylvania. In 2004, Robert suffered a stroke and had been moved to a skilled nursing facility. Robert passed away in September 2006.

## STEPHEN ALAN GODDARD

**Stephen A. Goddard** (ME65), former resident of the Onida/Pierre area, died in Huelo Point, Maui, Hawaii. Stephen graduated from Onida High School as valedictorian in 1961 and with

honors in 1965 from School of Mines. A second lieutenant in the U.S. Army upon graduation, he also had a dance band while attending college. Stephen attended Harvard University, graduating with a law degree in 1968. While attending Harvard, he formed a company which translated legal documents for foreign and United States companies. In 1968, Stephen married Kathleen Raftery. He joined the U.S. Army in 1968 and stationed in Alexandria, Virginia. In September 1968, he received a commissioned as a captain and served in Vietnam from 1969 to 1970. He received an honorable discharge in 1970. Stephen practiced law in Minneapolis, Minnesota from 1971 to 1973. In 1973 he designed, manufactured, and sold lamps by The Light Mirage by Goddard. In 1980 Stephen moved to Texas and practiced law. In 1985 he moved to Hawaii where he owned and operated the Hawaii Yacht Connection. Stephen's hobbies included family and friends; crossword puzzles; playing the guitar, piano, accordion and harmonica; philosophy; hunting; fishing; and an insatiable curiosity about everyone and everything. Grateful for having shared his life are his wife of Honolulu, Hawaii and his two sons and families.

## WILLIAM N. GROVES

**Bill Groves**, Professor Emeritus of Mechanical Engineering joined School of Mine's Mechanical Engineering faculty in 1960, and served as department head from 1983 until his retirement in 1990. He was a much loved and respected mentor to many faculty members, and continued his involvement in professional activities for many years after retirement. Bill was born in Alton, IL and attended the University of Illinois, where he received a B.S. in Mechanical Engineering in 1949, and he received his M.S. in

# Memorials

Mechanical Engineering from Washington University, St. Louis, Missouri, in 1959. He entered the U.S. Army in 1951 and received an honorable discharge in October 1956. Bill married Jean Schnetter in Devils Lake, North Dakota. He also held the position of Research Engineer for Shell Oil Co., Research Laboratory from 1949-1959 and was visiting professor at Bergen Institute of Technology, Bergen, Norway.

## CLYDE LOWELL HARBISON

**Clyde (Newt) Harbison**, former School of Mines faculty member, died at age 91 in Rogers, Arkansas where he had spent the previous three winters in the hospital. Clyde was born on a farm in Russellville, Indiana. He grew up in rural Indiana and graduated from Russellville High School in 1931. He received a BA from Wabash College in 1935 and he graduated from Indiana University with an M.A. degree in mathematics. In 1940 he married Inez Marie Rivers and accepted a teaching job with the School of Mines the next year where he taught for 38 years. During his spare time he built many homes in the Rapid City area and worked with the Boy Scouts. He enjoyed hunting and fishing in the Black Hills. During WW II he served in the Navy for 4 years attaining the rank of Lieutenant Commander. After retiring from teaching, he farmed and ranched in western South Dakota until 1993 when he fully retired.

## DONALD WAYNE HIGGINS

**Don Higgins** (Paleo71), 63, died in a traffic accident, near Flagstaff, Arizona. A geologist by training, Don first joined Chiricahua National Monument as a VIP, giving geology tours. He was a staunch preservation advocate and supported those efforts at Chiricahua and Fort Bowie.

## WILLIAM ROBERTSON HILL, JR.

**William Hill** (EE58) died at the

Tally Ho Manor at the age of 73. Born in Newark, New Jersey, he was a graduate of West Orange High School, and married his high school sweetheart Sandra White in 1951. Bill was an Air Force veteran of the Korean War. He retired after 35 years of service from Public Service Electric and Gas Company in Newark. He was active in the community as a councilman, Board of Education, and as a Boy Scout leader. Bill served the Jephthah Masonic Lodge, Salaam Temple Shiners, the VFW, and the American Legion. He was an elder and deacon of the First Presbyterian Church of Rockaway. His wife of 53 years survives him, along with two grown children and their families, including four grandchildren.

## STEVEN WAYNE HILLIUS

**Steven Hillius** (EE85), 45, passed away September 24, 2006 in Denver, Colorado. Steven was born August 29, 1960 in Lemmon, South Dakota. Survivors include mother Mary Hillius, wife Erin and brother Keith.

## HERBERT ORVILLE HODS

**Herbert Hodson** (EE30), 94, of Amarillo, Texas is remembered. Born in Mitchell, he received an honorable discharge from the National Guard of the United States and South Dakota in 1931. During his 36 years of service with Southwestern Public Service Co., he designed and directed the building of most of the current day electrical power generation and transmission for that company. He received a patent for his design of a "pot holder", a device for attaching transformers to electrical poles. He officially retired as Chief Operating Officer and Vice President of Southwestern Public Service Co. in 1974. As a registered professional engineer in Texas, New Mexico, Kansas, and Oklahoma, Mr. Hodson was a member of the Texas Society of Professional Engineers, the National Society of Professional Engineers, the Management Committee of Edison Electric Institute, and the

American Institute of Electrical Engineers. He advanced to the grade of AIEE Fellow in 1962 for his contributions to the electrical utility industry. He was a member of First Christian Church where he served on the board of directors as chair, was a deacon, and an elder. He was a member numerous service clubs, and the arts, music, and crafts proved to be a lifelong passion. He and Marjorie L. Gray were married in 1931. His wife preceded him in death 1985 following 53 years of marriage. If he could have a last word to every one of you, he would have borrowed that line from a musical favorite: "If you have a choice to sit it out or dance...THEN DANCE!"

## JOHN HENRY HOFFMAN

**John Hoffman** (CE47), 81, passed away June 29, 2006 in Jacksonville, Florida. John was with The Trane Company for 40 years. During the WWII John served in U.S. Navy. He is survived by his wife Beverly, daughter Deborah, son Richard and four grandchildren.

## ARTHUR MARVIN HOLGERSON

**Art Holgerson** (ME53), 84, was the husband of Frances (Sanders) Holgerson. Born in Sisseton, he was a Navy veteran of World War II. Following graduation, Mr. Holgerson began his career with Greenley Tool Manufacturers. He was their New England representative and served the company until his retirement. He was an avid gardener and beekeeper.

## ROGER FRANCIS HOTTMAN

**Roger Hottmann** (EE59) peacefully dwells in the House of the Lord forever after a valiant battle with diabetes and its numerous complications. He was born in Aberdeen, and was a long time member of Trinity United Methodist Church, serving on various committees. He received his Master's Degree from the University of Utah in Electrical Engineering. He was a dedicated employee of L3 Communications since September 1959. Roger served as president of the Association of Old Crows, Chair of



the Utah Section of AIAA, and on the national board of NARTE.

## GARY EUGENE HOWE

**Gary Howe** (ME72) passed away at his home in Belcourt, North Dakota. He was born in Rolette, North Dakota and he graduated from Central High School in Rapid City. Upon graduation, he worked for Westinghouse Corporation in California, Guantanamo Bay, and Hawaii. Later in 1984, he went to work for Public Health Service at Belcourt, North Dakota for twenty years. There he met Alyce Parisien, who was a public health nurse. They were friends for many years and married in 2001. They spent many days traveling and camping in their RV. Alyce passed away in 2003.

## WILLIAM LEWIS HUGHES

**William "Bill" Hughes** (EE49) passed away on February 21, 2007, at Rapid City Regional Hospital after a long illness and battle with leukemia, and after eighty years of a full and exemplary life. He was a beloved husband, father, grandfather and friend. From 1944 to 1946, he served in the U.S. Navy as a radio technician and returned to graduate from School of Mines in 1949 with a degree in electrical engineering. In 1950, Bill married Stella Platt and the couple settled in Ames, Iowa, where, in 1952, he received his Ph.D. in electrical engineering from Iowa State University. In 1959, Bill took the position of Electrical Engineering Department Head at Oklahoma State University and subsequently he and Stella raised their four children in Stillwater, Oklahoma. After retiring from Oklahoma State University, he was active in manufacturing equipment for the pipeline industry and other engineering specialties, traveling widely in this capacity. In 1988, he returned to Rapid City to assume the position of Vice President at the School of Mines. He served as Alumni Association President from 1972-1974, was presented with an Honorary Doctor of Science degree from the South

Dakota School of Mines and Technology in 2000, and received the Distinguished Alumnus Award in 2006. Bill enjoyed fly fishing and hunting in the hills, keeping bees, mentoring graduate students, tinkering in his workshop, and in his younger years, piloting his own private airplane. He was active in the First Congregational Church, Minnilusa Historical Association, and the Journey Museum, among numerous other civic organizations and professional societies.

## LOWELL GENE HULL

**Lowell Hull** (Math64) died at his home in Gulf Breeze, Florida. Lowell was 61. After graduation Lowell started his 31-year career as a Senior Engineer, principally in Aerospace Engineering and Aeronautical Engineering. He helped design the guidance systems for the Apollo space missions at MIT and was instrumental in the safe return of the crippled Apollo 13. He was personally responsible for the first launch of Japan's LANSAT satellite. He helped design the night vision that military aircraft use today. He retired in 1997. Lowell is survived by his wife, Julia; daughter, Stephanie; son, Victor; and grandson, Logan.

## ROBERT P. HUNT

**Bob Hunt**, a lifelong Rapid City resident, teacher, and coach, is remembered by many alumni and friends as a seminal leader and mentor. "Coach" Hunt graduated in 1933 from Rapid City High School where he won the 1933 state pole vault championship and was a member of "Euc" Cobb's state tournament basketball team. At the School of Mines, he lettered in football, basketball, and track. At the University of Northern Iowa, he won the AAU pole vault championship in 1937 and 1938. He began his teaching career in 1941 in Iowa before enlisting in the United States Army Air Corps in 1942 and serving over seas as a bombardier navigator in a B-17. He was a prisoner of war until April 1945 after shot down over Austria in May 1944. His 35-year tenure at

the School of Mines began in 1946 as an assistant professor and head basketball coach. Bob coached the School of Mines basketball team to their first conference championship in 1955. Bob also served as golf coach for 10 years; winning five conference and four district championships. Coach Hunt started the women's basketball program in 1975. Under his guidance, the Lady Hardrockers won two conference Championships, a state championship, and recorded 86 wins in six years. He also served as an assistant coach in football and track and as intramural director for 25 years. Coach Hunt will be missed by many alumni and friends.

## HENRY LAWERNCE HURLEY

**Henry "Hank" Hurley** (GeolE49) of Fort Collins, retired petroleum geologist and WWII veteran, went to be with the Lord. Hurley was born in Lead. His father died when he was 5 years old, while trying to find work. His mother died when he was 12. Hank stayed in various situations until placed with a former sheriff and his wife, Joe and Elizabeth Keffler of Deadwood, SD. He supported himself with manual labor jobs and graduated from Deadwood High School in 1939. Hank worked as a filter man for Homestead Mining Company while getting one year of college at School of Mines before enlisting in the Army Air Force in 1943. He served as a bombardier instructor in San Angelo, Texas, until his discharge as a first lieutenant in 1946. Hurley returned to college and earned a degree. He joined Amerada Hess Corporation, working up from geologist to area exploration manager for Texas, Oklahoma, and the Rocky Mountain area. He worked as an independent consulting geologist in Denver, and then moved to Amarillo, TX as the exploration manager for Santa Fe Energy Company. Hank then became president and manager of exploration for Amarala Petroleum,

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Inc. Hank met and married Mary Briscoe Roper. Hurley was a member of Christ Center Community Church in Fort Collins, and he also enjoyed Community Bible Study and Christ Center Men's breakfast. Friends and family remember Hank's humor, love of fishing, and sacrificial service to others through his many talents and abilities.

## GLENN FRANCIS HYDE

**Glenn Hyde** (MetE44) passed away, the beloved husband of M. Donna Willem Hyde and a devoted father. Glen enjoyed and cherished his grandchildren. Mr. Hyde was born in Rapid City.

## VANCE WESLEY JAQUA

**Vance Jaqua** (ME54) was born March 14, 1929 and passed away June 27, 2006. He is survived by his two sons, Douglas and Scott.

## KENNETH ROYCE JATKO

**Kenneth Jatko** (ChemE43) was born June 3, 1922 and passed away in September of 2005.

## HANS MARTIN JENSEN

**Hans Jensen** (GeolE50) is remembered for his 80 years of life. Hans was predeceased by his wife, Eileen; and survived by daughter, Roseanne; and sons, Mark and Paul (MetE80).

## JOHN HENRY JENSEN, JR.

**John Jensen** (ChemE39) died Kingsport, Tennessee. He received his master's degree and Ph.D. from Iowa State College, completing his Ph.D. in 1948. Dr. Jensen retired in 1981 from the Tennessee Eastman Chemical Company, where he worked as a chemical engineer in Research. He played clarinet and bassoon in the Kingsport Symphony Orchestra. John and wife of 56 years, Isabel, were active members of Preston Hills Presbyterian Church. He enjoyed his "HAM Radio" station.

## ARTHUR LAUREL JONES

**Art Jones** (EE49) died at Rapid City Regional Hospital. Art was born in Mobridge. He grew up in Wakpala on the Standing Rock Reservation. During his first five years he was raised the same as his Lakota brothers who comprised all the other boys in the small reservation community. He moved to Rapid City in 1929, where his father owned and operated a gasoline station and cabin camp located in "The Gap" just below "Hangman's Rock" of early frontier justice fame. After graduation, Art did not want to leave the Black Hills so he never pursued his life as an engineer. He began a broadcasting career when first enrolled at the Mines in 1949 by joining the staff of the college station WCAT. A three and a half year tour as an electronic gunner on the B-29 Super Fortress bomber interrupted his education. During his time in the Air Force, he worked for Paul Tibbets, who dropped in the "A-Bomb". Tibbets was responsible for Art meeting his wife of nearly sixty years, Bette J. Grizzell. Art has dabbled in many "ologys" during his lifetime. He was a 22-year scoutmaster, incredibly proud of his "Silver Beaver" award. He was a chef in his own popular restaurant, a state senator, semi-professional woodworker, and a TV news and weather broadcaster. He was the first TV weatherman west of the Missouri River in South Dakota. Art lived for more than 75 years in Rapid City and Pierre with his wife, Bette and one daughter. Art was interned at the Black Hills National Cemetery, with military honors by Rushmore VFW Post 1273.

## RAYMOND NEIL JORGENSEN

**Raymond Jorgenson** (CE50) passed away May 3, 2006. Ray was born February 23, 1917 in Del Rapids, South Dakota. He married Glenda in November 1942 and served in the South Pacific during WWII. After graduation, he began working for the City of Sioux Falls in 1952. He was later appointed City Engineer and retired in 1985. He is survived by his wife Glenda,

daughters Judy and Linda, six grandchildren and sister Shirley.

## TONY JULIO

**Tony Julio** (EE39), 91, of Denver, husband of Selma Julio, and father extraordinaire, passed. His wife, daughter Kathleen, daughter Carolyn, son Kenneth, daughter Christine, grandchildren and great grandchildren, remember his kindness, compassion, and generosity.

## BYRON LYLE KANE

**Byron Kane** (GeolE57), who grew up on Indian reservations, served in the Army as an enlisted man, and rose to the rank of captain in Navy intelligence, died in the Silverado Senior Living Alzheimer's facility. During the Korean War, Kane served in Alaska as an Army sergeant. He joined the Naval Reserve during the Vietnam War. Kane's final active-duty assignment was as head of naval intelligence operations in the southeastern United States. He retired from the Navy in 1985. He worked as a geologist for Texaco in Lafayette, Louisiana; in New Orleans for Lockheed Engineering Services Co; and in Houston for the Cabot Oil and Gas Corp. At Lockheed, Kane helped train the Apollo astronauts in geology and studied samples of moon rocks that they returned during the program. He also received a master's degree in geology in 1958.

## WILLIAM ARTHUR KLEMM

**William "Will" Klemm**, 85, a former School of Mines professor, is remembered for his many years of service to School of Mines. Dr. Klemm graduated from the University of Illinois at Urbana-Champaign in with a B.S. in Chemical Engineering. He earned a scholarship to attend Massachusetts Institute of Technology and graduated in 1946 with a Ph.D. in Chemical Engineering. World War II interrupted his graduate studies when he worked in research for the National Defense Research Council. He received a Certificate of Merit from the United States Office of



Scientific and Research Committee for his contribution to the war effort. After teaching at several universities, he joined the School of Mines Chemical Engineering faculty in 1975. He was a member of the American Chemical Society, the American Institute of Chemical Engineers, and the American Ceramic Society.

## THOMAS EDWARD KREBS

**Thomas Krebs** (ME55) of Santa Monica, California, passed away at the age of 69. He was born in South Dakota.

## JACOB RAYMOND KURLE

**Jacob Kurle** (ME70) was born May 15, 1947 and passed away September 11, 2006. Jack "Beeps" married Myrna in 1971. and they had two children, Betsy and Michael. Jack had many accomplishments including: Chairman-Oklahoma Construction Industries Board; President-Mechanical Contractors Association of Eastern Oklahoma; past Chairman-GCSA Appeals Committee; former GCSA coach, referee, and volunteer; member of ASHRAE; member of Delta Sigma Phi; and was working for AAON Inc. as a regional sales manager.

## JAMES THEODORE LEE

**James Lee** (CE48) passed away at age 84. As a young man growing up during the Great Depression, he worked as many jobs to help support his family. His college education was interrupted by WWII when he served the U.S. Army stationed in the Pacific Theater. He was involved in many actions, most notably the Battle for Okinawa. He was training for the invasion of Japan when the war ended. He requested that his grave marker say simply "World War II Vet". After the war and earning his degree, he went to work for the U.S. Geological Survey and remained there until his retirement in 1977. He began his career with the USGS in the field, surveying for topographic maps. His field assignments included surveying the Alaskan wilderness near Denali by

helicopter in the late 1940's and surveying the Yellowstone backcountry by horseback. In 1953, he married Lorraine Dobnik Lee and had one son, Frank. He retired as Chief of Cartography, Rocky Mountain Division.

## VERNE BARTHOLD LEEDY

With deep sorrow, the Alumni Office received word that **Verne Leedy** (MetE39) died. He lived a good life, and he died peacefully, at home, without pain. Many felt blessed by his presence among them. Please share your kind thoughts with his spirit as he journeys from this life.

## BERNARD G. LONG

**Bernard Long** (MinE57), 76, passed away August 10, 2006. He served his country in U.S. Air Force. He was a Registered Geologist for the state of California, a professional engineer for the state of Texas. Bud and his wife Margaret had lived in Alleghany County for two years, having moved here from Charlotte. He loved his Mountain Home and the West. He is survived by his wife, one son Robert, three daughters, Tracy, Ellen and Dee, six grandchildren and two great-grandchildren.

## AGNAR MAGNUSSON

**Agnar Magnusson** (CE70) was born in Copenhagen, Denmark. For 30 years he had been self-employed running his own firm where he worked as an architect in Iceland. Due to his health, he had stopped working; he had cancer at an incurable stage. He passed away September 30, 2006.

## JAMES ROBERT MAJOR

**James Major** (EE57), 68, of Walsenburg, passed away peacefully while on an outing with his grandson at Lathrop State Park. Mr. Major was born in Deadwood where he attended High School. After graduation he lived in Boulder, Colorado, and attended Unity Church of Boulder, Old Stone Congregational Church in Lyons, and United Church of Walsenburg. He was a Boy Scout leader and worked with youth at the United

Methodist Church of Hyde Park, New York. He relished singing in Lyons, Boulder, and Walsenburg choirs. He retired as an Electrical Engineer employed at NIST (National Institute of Standards and Technology) in Boulder, Colorado. He loved God, family, mountains, creative, innovative skills, and believed in goodness.

## DANIEL CONNOR MALCOLM

**Daniel Malcolm** (GeolE51) passed away at Riverview Medical Center, Red Bank. He worked with the Internal Revenue Service in the Corps of Engineers as a geological specialist for 43 years, retiring in 1995. He was a World War II veteran serving in the Army Air Corps in 1944 and 1945 as a weather forecaster in Greenland. He attended New York University, Furman University, working on a liberal arts degree. After graduating, he attended the University of Cincinnati earning a master's degree in geological engineering. He had a long history of raising turtles and was a member of the Turtle Society of New York. He was a member of the Hazlet Township Environmental Commission and Planning Board. He was the kind person who used his knowledge to make his community a better place for live in. Born in Yonkers, he lived there before moving to Brooklyn and then to Hazlet in 1973. His first wife, Silvia, in 1981 and his second wife, Veronica, predeceased him in death.

## DENNIS GORDON MALWITZ

**Dennis Malwitz** (MetE58), 70, passed away July 17, 2006. He retired from CF&I as a Blast Furnace superintendent in 1984. He was a member of Pueblo Christian Center. He is survived by his wife of 50 years, Doris and six children: Mary, Mark, Julia, LouAnn, Sharon and Susan, 15 grandchildren and two great grandchildren.

# Memorials

## BONNIE MCHUGH

A former resident of Rapid City, **Bonnie McHugh** (GeolE87) died at Good Samaritan Village in Sioux Falls. She was born in Ramona. She graduated from South Sioux City High School in 1939. In 1940 she married Merrill G. Conklin in South Sioux City. During the WWII years, she did general office work and then stayed home for ten years to care for their family of four boys. In 1956 the family moved to Rapid City, SD, where Bonnie began employment at the SD School of Mines. She worked there for 27 years, the last 23 years as Executive Assistant to the President. She balanced her job with being a student in night classes and the fulltime adventures of raising four teenage sons. In 1970 Bonnie married Alexander E. McHugh in Rapid City. After retirement she settled in to be a fulltime student. A major highlight of her life was her graduation in Geological Engineering in 1987. Upon receiving her diploma, she received a standing ovation. She exclaimed, "The study of Geology opened up a whole new world to me." Her husband, Alex, died in December 1989, and in 1998 Bonnie moved to Sioux Falls to be nearer to family. She was a member of St. Andrew's Episcopal Church, a charter member of the Darton Geological Society, and among other activities, enjoyed the AAUW Book Exchange. Bonnie loved books, music, the Black Hills, and camping in the West.

## CLYDE EUGENE MCPHARLIN

**Clyde McPharlin** (EE54), 90, passed away in Seattle, Washington. Clyde was a retired professor from the University of Washington, School of Business Administration. He was predeceased by his wife, Flora Delle.

## JOHN CHESTER MICKELSON

**John Mickelson**, 83, Professor Emeritus of Geological

Engineering, left a lasting legacy at School of Mines. John was born in Winter, Wisconsin, and attended Augustana College in Rock Island, Illinois, graduating with a B.A. in Geology. From 1941-1943, he worked for Borg-Warner Corp., building amphibious vehicles for the war effort. John served in the armed forces from 1943 to 1946, earning the Bronze Star Medal and Letter of Commendation. He married Grace Erdahl in 1947. He earned a M.S. and Ph.D. in Geology. After graduation, he served as assistant professor at Washington State University, and he worked for Standard Oil of Ohio. In 1961, John accepted a position at School of Mines. In 1968, he was head of the Geology and Geological Engineering Department. He served in that position for 10 years. John retired in 1985. There is a scholarship and a professorship established in his name at the SDSM&T Foundation.

## VANCE EDWARD MILLER, JR.

**Vance Miller, Jr.** (ME51) was born in Groton, where he and his sister helped their parents at Miller Mercantile, a general store established by their grandfather and uncles. Vance used to speak of his experiences entering the School of Mines Class of 1947 with a large group of WW II veterans, and as a freshman recently graduated from Groton High School. A new dorm being built to receive the class was not completed by the time of their arrival, so they slept in Army bunks in the gymnasium for several weeks/months. Vance later lived in a basement room of a residence across town walking back and forth to classes, and eventually lived at the Theta Tau residence. He was Student Body President of Mines at that time. His first job was with General Electric. Graduating first in his class from Naval Officer Candidate School won him a choice assignment to the San Francisco Naval Shipyard at Hunter's Point in 1955. He managed modernization and repair projects on WW II era aircraft carriers, ships, and submarines. In San Francisco he married Jacquelyn

Harris. Once out of the Navy, Vance took a job with Ampex, a pioneer in magnetic video and audio recording systems. Vance finished his MBA at Stanford's Graduate School of Business, graduating in 1963 and was awarded the Standard Oil Scholarship both years. In 1965, Vance joined the Logistics Systems Research group at Stanford Research Institute, working as a consultant all over the world.

## VIRGIL LEON MILLER

**Virgil Miller** (CE47) was born January 1, 1924 in South Dakota. During WWII, he served in the U.S. Navy. After graduation, he moved to Washington state where he was president and owner of his own business. He was a manufacturer's representative for steam and power plant equipment companies. He and his wife Doris spent 20 winters in Yuma, Arizona. Virgil passed away January 23, 2006. He was preceded in death by son Jeffrey and leaves behind his wife Doris. He is survived by his children Brad, Dave and Melanie.

## GEORGE EUGENE MOORE

**George Moore** (EE69), 88, died at Rapid City Regional Hospital. He was born in Dodge City, Kansas. As a pilot during WWII, he flew over 60 missions, receiving the Distinguished Flying Cross. George was a 28-year career United States Air Officer, retiring as a Lt. Colonel in 1967. George married Jean Louise Simpson in 1945 in Flagstaff, Arizona. He taught Electrical Engineering at School of Mines until retiring in 1986. He was a member of the Retired Officers Association and the International Association of Electrical Engineers. His wife Jean, two daughters, and family directed memorials to the School of Mines Electrical Engineering Department.

## TIMOTHY PETER MULLOY

**Tim Mulloy** (MetE78) was a whiz kid when he was in school in Mobridge. He tried to play football but his smaller size was a handicap. Instead, he played drums in the school band, and excelled in



math and science. After graduation, he worked at Kennecott Copper Co in Salt Lake City, and then in Globe, Arizona. While there he designed a method of extracting gold from copper ore and received a patent for this design. He then moved to Washington, Pennsylvania, where he worked more than 20 years for Molycorp as a process engineer. Tim was 48 when he died suddenly of complications from pancreatic cancer. His greatest joy was spending time with his 17-year-old son, Ryan Mulloy. Tim diligently made a point of bringing Ryan to Mobridge and other family events as often as possible.

## GEORGE RUDOLPH MUSTAPARTA

**George Mustaparta** (ChemE32), died at age 94 in a Rapid City nursing home. George was born in Lead. After graduating from Lead High School, he attended the School of Mines and then Iowa State University, obtaining a Master's Degree in chemical engineering. George married Jeannette Bordewyk Janis in 1934. Jeannette passed shortly before George. After serving in the Civilian Conservation Corps during the Depression, he joined Hercules Powder Company and lived in many places around the country while in their employ, eventually returning to Rapid City in 1992. During all of his working life and most of his retirement, George was an active member of Kiwanis. His life was one of dedication to hard work, generosity, and good humor.

## ROBERT MAX MYRICK

**Robert Myrick** (MinE51), 76, passed away February 28, 2006 in Las Vegas, Nevada from respiratory problems. He was in the U.S. Army from 1952 to 1954. He next worked on the family farm in South Dakota until 1957 when he joined the U.S. Geological Survey in Columbus, Ohio. In 1958, he transferred to Washington, D.C. where he served as Research Assistant to the Chief

Hydraulic Engineer, Luna Leopold. In 1961, he transferred to the Arizona District Office in Tucson where he worked on several studies on the hydrology of semi-arid lands. In the early 1970's, he was project engineer to build the bed load trap on the Eat Fork River in Wyoming, and in 1979, transferred to the National Research Program bed load transport project in Lakewood, Colorado, where he retired in 1985. He is survived by his wife Stella, whom he married in 1980.

## ROBERT DUANE NEWCOMB

**Robert Newcomb** (EE58) of Northglenn, Colorado, is remembered. He graduated after serving four years in the U.S. Air Force. He worked for Ball Brothers Research in Boulder and then Hughes Aircraft where he retired in 1999. Robert's wife Mary Jo was a secretary in the Alumni Office and they had two daughters and a son.

## NORMAN PETER NISICK

**Norman Nisick** (ChemE49), 74, passed away October 22, 2006 in Richland, Washington, where he lived for 57 years. Norman was born on March 26, 1922. His attendance at the School of Mines was interrupted by WWII. Norm completed the Army Specialized Training Program at The Citadel in South Carolina where he received the highest test score ever at that time. He earned two Bronze Star Medals — one for servicing in the European African Middle Eastern Theater and the other for delivering supplies under fire. He married Edith Gamble in 1949 and they had two sons, Michael and Dan.

## KEITH G. PAPKE

**Keith Papke** (MinE48) passed away July 17, 2006 following battle with cancer. During WWII he served in Europe and he earned the Purple Bronze Star and Combat Infantry badge. From 1952 to 1966, he was employed as an exploration geologist by several western mining companies. In 1954 he married Ruth and they had two children Brian and Louise. They

lived in Reno, Nevada where he was employed as an industrial-minerals geologist by Nevada Bureau of Mines and Geology at the University of Nevada where he authored more than 60 technical publications on industrial minerals and geology. He was named Emeritus Professor. In 1992, he received the Hal Williams Harding Award, top honor given by the American Institute of Mining Engineer.

## CHARLES LYNN PEEP

**Charles Peep** (ME49) was born in Gettysburg. He died at the Lookout Memorial Hospital in Spearfish. He attended country school and graduated from Gettysburg High School in 1941. At age 16 he started college at the School of Mines. After his sophomore year, he joined the US Army in 1943 and served as a supply sergeant in the US and Europe until April of 1946. He met Johanna Maria Antonia (Ria) Wever and they were married in 1945 in Holland. After graduation, he farmed in Gettysburg from 1949 to 1972. In addition to farming, he worked for the National Guard in Gettysburg and was a member from 1948 to 1983, serving in South Dakota, Minnesota, and Alaska, retiring with full military benefits. He worked for the BIA in Eagle Butte from 1963 to 1968 and again from 1974 to 1979. In 1968 he worked for the US Veterans Hospital until 1974. In 1979 he worked in Juneau, Alaska until he retired in 1985. While in Juneau he was a commercial halibut fisherman with his sons and son-in-law. Ria and Charles moved to Fairbanks, Alaska after retirement, where they lived until 2002 when they moved back to Spearfish. His wife of 59 years, Ria Peep, welcomed that many of their twelve children were able to be with him at the end of his life. His children say that he was happiest working to keep equipment working many years beyond its normal life.

# Memorials

## **WILLIAM JOHN PLAMP**

The Alumni Office received word that **William Plamp** (EE66) passed away suddenly on while still working for Unisys in Minneapolis.

## **ALFRED JAMES POTTORF**

**Jim Pottorf** (EE39) was born in Alliance, Nebraska. He attended schools in Vale and graduated from Vale High School. Jim married Evelyn Halbmaier in Deadwood. He worked for the General Electric Company, and after 35 years of service, he retired in the early 1970's. They made their home in Sturgis, during summers and in Quartzsite, Arizona, during the winter. Jim, 87, died at his residence in Quartzsite.

## **PAUL EUGENE RANGE**

**Paul Range** (EE47) passed away December 27, 2006 at his home in Palm Desert, California following a long battle with Parkinson Disease and other health problems. Paul was 84. In 1942, he joined the Navy and following Navy Radio school he served aboard a newly commissioned Destroyer in the Atlantic Ocean in WWII. After the war he returned and graduated from the School of Mines. He established a Radio Engineering Company and moved it to Omaha, Nebraska in 1951, where he lived until 1954. Paul's lifelong hobby was ham radio. Paul kept up with the rapid technology advances and his "rigs" were always state of the art. Paul married Erma (McHone) Waring, a widow, in 1952 in Sioux Falls, South Dakota. In 1954 they moved to Los Angeles, California, where Paul worked for Hughes Aircraft Company until he retired while on medical leave. Erma passed away in 1981. He is survived by his present wife, Lorna, two stepsons, three step grandchildren, four step great-grandchildren, and his brother Donald.

## **DURWOOD D. REINECKE**

**Durwood Reinecke** (CE47) passed away August 3, 2006 in Kansas. In WWII he served as an officer in the Navy as a Seabee in the 144th Construction Battalion on Guam. He pursued dual careers as a Registered Professional Engineer and in Sales Management. He retired from Armco Inc. in 1983 after 32 years of service. Survivors include wife Maybelle, daughters Pamela, Patricia and Peggy, sons Bryan and Charles and several grandchildren.

## **MARK W. ROBINSON**

**Mark Robinson** (CE74) was born May 4, 1951 in Idaho and passed away March 28, 2004.

## **DONALD FOSTER ROTHROCK**

**Donald Rothrock** (CE49) passed away on August 30, 2006 at age of 82. He served in the European Theatre along the border of Belgium and France during WWII. He arrived in France shortly after D-Day and received severe shrapnel injuries two days before Christmas. Following months of recuperation at a Washington State military hospital, he was discharged in 1945. He was awarded a purple heart for his military service. Following a long career in engineering, he retired to Silver City, New Mexico where both his brother, David, and uncle, Howard, had made their homes.

## **TIMOTHY JAMES RYAN**

**Tim Ryan** (EE69) was born in Mitchell. He graduated from Central High School in Aberdeen in 1957. Tim married his wife of 40 years, Loretta "Sunny" Ryan in Miller, and worked as an electrical engineer for Honeywell for 32 years before retiring in Phoenix. Tim and Sunny worshipped together at St. Joseph Catholic Church in Phoenix, Arizona. His hobbies included building airplane models (member of IPMS) and watching sports. Throughout his life Tim was a loving husband, father, grandfather and friend to many.

## **HOWARD ANCIL SANFORD**

**Howard Sanford** (EE56) was born in Los Angeles, California. His father's job with the Bureau Of Reclamation took him from state to state up through his high school years in Huron. There he met Wilma Stahl who became the love of his life, along with children Linette, Steve, Bill, and Bruce. Following graduation he moved to Minneapolis, Minnesota where he took his first job at Electrical Machinery. A job change in 1961 took him to Helmick & Lutz. His many involvements included Optimist Club, Children Gospel Mission, Awana Youth Ministries, local delegate for his political party, and active member of the Powderhorn Park Baptist Church. In 1986 he made his final employer change to Bonestroo, Rosene, Anderlik & Associates. Howard enjoyed sailing, cross-country skiing, landscaping, spending time with his family and serving the Lord. His passion was to live his life so that others would see Jesus in him. He went on to his eternal reward with his family at his side.

## **LEONARD JOSEPH SCHMID**

**Leonard Schmid** (MetE42), of Indianapolis, passed away. Born in Browerville Village, Minnesota he was a member of Theta Tau Fraternity while at School of Mines. A U.S. Navy Captain during World War II, he was the commanding officer of the landing craft operating with the invasion task force in the southwest pacific. Mr. Schmid had a distinguished career with General Motors for 37 years, including the position as Chief Metallurgist in charge of the Metallurgy Lab for Allison Division of General Motors. After retiring in 1979, he moved to Hartwell, Georgia where he was a member of Sacred Heart Catholic Church. He was very active in many community projects including Meals on Wheels. He was a member of St. Monica Catholic Church in Indianapolis and a long time member of St. Malachy Church in Brownsburg where he chaired the building committee to build the



parochial school. Virginia Schmid, his wife of 59 years, preceded him in death.

## ROBERT FRANKLIN SCHOENING

**Robert Schoening** (CE51), of Grand Rapids, Minnesota died at the Grand Itasca Clinic and Hospital, leaving his wife Ellen, one daughter, Linda Heissel and three grandchildren.

## ALTON THEODORE SETHER

**Alton Sether** (ChemE51), of Idaho Falls, passed away. He was born in Rapid City. After graduating he lived in Richland, Washington, until drafted into the U.S. Army, where he served with the Technical Service Unit at Dugway Proving Ground, Utah, from 1955 to 1957. He returned to Richland to work for the Atomic Energy Commission until he transferred to the AEC office in Idaho Falls in 1958. Following his retirement from the DOE office in 1983, he worked several years as a consultant for Sandia National Laboratory. He married Patricia Ann Stillman in Rapid City in 1950. They divorced in 1991. When he was young, Alton enjoyed spending time with his grandparents at their cattle ranch in South Dakota. He enjoyed reading, music of all kinds (particularly country western), activities with his little dog Mandy, gardening, following sporting events, and cooking. He was a member of the First Evangelical Lutheran Church, and a member of the Ancient Free and Accepted Masons, Grand Lodge of South Dakota.

## ARTHUR GEORGE SIEVERS

**Arthur Sievers** (EE31) was born November 7, 1909 and passed away March 17, 2006. He lived in Bridgewater, South Dakota. He was Owner of the Farm Equipment dealership business. He is survived by his wife Ina and children Ronald, Steven, Terry and Jaclyn.

## JOSEPH M. SLOUBER

**Joe Slouber** (Geol41) died in Roseville, California. He was born

in Hamilton, Montana. Joe was survived by his wife Faye Wiese Slouber of Roseville, California, three sons, three daughters, and many grandchildren and great grandchildren.

## PAUL REX SMITH

**Paul Smith** (ChemE49), 82, of Prescott Valley, passed in Phoenix, Arizona. His wife, Maria, two sons, two daughters, and many other family members, remember him fondly.

## CHRISTOPHER FRANK SOELZER

**Chris Soelzer** (ChemE00) born in Rapid City, will always be remembered for his service to his family, friends, and country. He died serving his country in Iraq. Chris graduated from Sturgis High School in 1995. He graduated from Kemper Military Junior, earning an officer's commission. He was a platoon leader and detachment commander from De Smet, for Bravo Company, 153rd Engineers. He received his commission as Captain in 2003. Chris enjoyed hunting, especially antelope. He loved the ranch and never tired of helping his dad, whether it was building fences, stacking hay or working cattle. When he emailed home, his first question was always, "How are the cows?" His faith was important to him and he demonstrated it through the care and concern he showed for others. He loved his family, and he never missed an opportunity to be together and particularly enjoyed showing up unannounced on a family member's doorstep. He had a great sense of humor, and he enjoyed laughing, four wheeling, riding horses, and caring for his animals. He believed in what he was doing and was proud to serve his country. His family and friends will miss him always.

## FLEET LEROY STANTON

**Fleet Stanton** (CE57), 76, died in Port Ludlow, Washington. He was born in Huron. From 1950 to 1952, he was in the U.S. Army, attaining the rank of sergeant and serving with the 147th Field Artillery Battalion in Fort Field, Richardson,

Alaska. He continued in the National Guard from 1952 to 1955. In 1954, he married Laurena Tauscher in Huron. His work took him around the world until 1960, when he settled in Utah. He retired from the U.S. forest service in 1983 and moved to Port Ludlow in 1999. Actively involved with senior citizens groups, Stanton was a member of the American Legion and the Moose Lodge.

## JAMES EDWARD STEVENS

**James Stevens** (CE40) was born June 21, 1940 in Mitchell. He passed away September 3, 2005 in Frankfort, Illinois. He is survived by wife Erma, children Linda, James Janet, Jane and Deborah.

## LEONARD FREDERICK STEVENS

**Leonard Stevens** (CE34) passed away February 5, 2006. He was born in Mitchell. He was commissioned as an Army lieutenant in 1941 and joined the Army Reserves in 1945, retiring as lieutenant colonel. His first marriage was to Getha Seidel, and she preceded him in death. His second wife, Clare, also preceded in death. Mr. Stevens worked with the South Dakota Highway Department building roads in the Badlands, as an instructor at South Dakota University for two years, with the Civilian Conservation Corps for a short time and later taught engineering for one year at Iowa State University. He came to Lafayette in 1947 and worked at Purdue University with purchasing and physical facilities until his retirement in 1978. He was also a member of Council 456 of the Knights of Columbus, a member of the Reserve Officers Association, commandant of the United States Army Reserves School from 1957 to 1963 and a member of American Legion Post 11 and Elks Lodge. He was active with the Democratic Party and the Purdue University physical facilities golf and bowling leagues, served as president of Meals on Wheels, and was an Internal Revenue Service volunteer.

# Memorials

Surviving are two daughters, Patricia and Mary; 8 grandchildren and 15 great-grandchildren.

## BYRON HARVEY STRANDELL

**Byron Strandell** (EE48) died of complications from diabetes. His wife Mary Strandell and he worshipped together with their ten children at Cathedral parish in Rapid City. Byron was a life-long resident of South Dakota and was born near Creighton. He attended Wall High School and graduated from Rapid City High School in 1938. After a tour in the United States Marine Corps, which included service in the Pacific Theatre during World War II, he returned to Rapid City to attend school. In 1946 he married Mary A. Bielmaier. After graduation, Byron and Mary moved to Watertown where he worked for Scott Engineering Company. In 1958, he became a founding partner of what would become his sole business as a consulting engineer. During his 45 years in the engineering profession he was actively involved in the design and deployment of electrical distribution systems for many rural Electric Coops in South Dakota. He was instrumental in the modernization of telephone service to much of rural South Dakota. Mary and Byron lived in Watertown for 30 years and raised their 10 children there. They were active members of the Immaculate Conception parish. Mary and nine of their children worked for Byron's firm over the years. The family moved back to Rapid City in 1979 so they could be closer to Byron's work in Western South Dakota. Byron was active in his church as a member of the choir. He was also a member of the South Dakota Professional Engineering Society and was a licensed professional engineer in several States. Byron was especially proud that each of his ten children graduated from college and has been successful in their professional endeavors.

After retiring in 1993, he traveled with wife Mary on many visits to his children and grandchildren.

## ROBERT VINCENT SUMMERSIDE

**Robert Summerside** (CE33), 96, passed away June 18, 2006 in Pierre, South Dakota. He served in the U.S. Navy Seabees during WWII. Survivors include son Don, daughter Patsy, two brothers, George and Frank, two grandchildren and one great-grandson.

## IRMA (MICKI MEEHAN) THOMSEN

**Irma Thomsen**, 81, passed away in Scottsdale, Arizona July 23, 2006 from cancer and other complications. Irma was known to the faculty, staff and students at School of Mines as "Micki Meehan" when she worked as a telephone operator and mail clerk in the basement of the McLaury Building during the school years of 1957 through 1959. She is survived by her husband **Bert Thomsen** (GeolE59), daughter Lisa, son Mark, five grandchildren and other family that will miss her dearly.

## RALPH RUSSELL TURNER

**Ralph "Russ" Turner** (GenE37) was born in White River. After graduation he went to work for Stanolind Gas Company in the oil fields of Colorado. In 1940, he met and married the oil camp schoolteacher, Jane Harkee. Russ honorably served four years in the Air Corps during WWII. During his working years, they lived in many locales including Wyoming, North Dakota, Alberta, Canada, Norway, and Trinidad Tobago Islands. After working 35 years in the oil business, he retired in 1972 and made his home in Prescott, Arizona. For enjoyment, he then designed and built three houses. His favorite hobby was woodcarving. He had a talent for bringing out the beautiful grain in a piece of wood. His sculptures displayed in many northern Arizona galleries. He was part of a group who worked to raise funds to construct a facility to serve the mentally handicapped and blind in Prescott Rock Club. His wife, Jane,

his children, grand- and great-grandchildren, family members including his nephew **Wayne Echelberger** (CE56) and his brother **Bob Turner** (CE52) remember Russ fondly.

## DOMINIC VERONDA

**Dominic Veronda** (MetE43) was born in Lead. Dominic worked in the Homestake mine for many years. He graduated from Lead High School and was the valedictorian. He received a football scholarship from the Rapid City Daily Journal, and was the first in his family to graduate from college. After college, he went to work for the Ford Motor Company where he met Dolores, his wife of 60 years. As a Lieutenant in the Navy, he saw action in the South Pacific and participated in the liberation of the Philippines and the WWII victory. His company received a special commendation from President Truman for rescuing a US ship downed at sea. After WWII, Dominic and Delores settled in Southern California and raised their family. Dominic worked for the Naval Ordnance Test Station in Pasadena for 27 years, and then for the Naval Ocean Systems Center in Point Loma, retiring in 1979. In all, Dominic served the US Navy for over 35 years. His family and friends miss Dom deeply.

## EDWIN DANIEL VIERLING

**Edwin Vierling** (GenE54), 76, passed away July 25, 2006, husband of 45 years to Jane Lee, father of Craig and Jennifer. He served in US Navy, was employed at Boeing, Keyport, the Coast Guard and the Seattle School District. His favorite job was with the Coast Guard maintaining the light houses along the Washington and Oregon Coast. Ed was an early pioneer of wind energy and in 1980 oversaw the installation of a wind generator to power the light house at Tatoosh Island.

## JOHN RICHARD VINCENT

Alumni office learned that **John Vincent** (MinE81) passed away after battle with numerous



ailments. After completing High School in Elliot Lake, John obtained a Mining Engineering Technology diploma from the Haileybury School of Mines in 1979. Armed with his degrees and his Professional Engineering certificate, John held a number of positions in the mining industry. Around 1997, MRDI (Canada) Mining Consultants located in Vancouver hired John as a Senior Mine Engineer. This job took him to the far reaches of the earth including Japan, Peru, and Iran. John married Barb and they had three children. He liked to water ski, fish, swim, boat, and play base ball, tennis, hockey and almost all sports.

## JOHN T. VUCUREVICH

**John Vucurevich** (Hon92), died at age 92 in his Rapid City residence, and will always be remembered for his singular philanthropic activities in the Black Hills area. Born August 15, 1912 in Trebinje, Yugoslavia, John grew up in Lead, joining the United States Army serving during WWII. He served in the South Dakota State Legislature in the late 40's and early 50's. He served numerous Rapid City and the Black Hills area causes through his establishment of the John T. Vucurevich Foundation. John was a member of Emmanuel Episcopal Church, Masonic Lodge A.F. & A.M. in Deadwood, and the NAJA Shrine.

## RALPH RUSSELL WALKER

**Ralph Walker** (CE56) was born in Edgemont. He graduated from Hot Springs High School, and then joined the U.S. Army for two years. Following his military service, Ralph attended Peru State University in Nebraska and then School of Mines. Ralph went to work for Brady Engineering in Spearfish and later for the state Department of Game, Fish and Parks for six and a half years. His career then culminated working for the state Department of Transportation for 20 years. Ralph married Junette Barbara Neuroth in 1958 in Sioux Falls. During his life Ralph enjoyed coaching

baseball, Boy Scouts outing, fixing broken devices, writing children's stories, bragging about his grandchildren, and conversations with his friends. His wife preceded him in death.

## WALTER CRAIG WALLIS

**Walter Wallis** (EE37) was born April 3, 1914 in South Dakota. He passed away November, 28 2005.

## LEO CHARLES WILLMOTT, JR.

**Leo Willmott** (ME59) was born February 25, 1934 in South Dakota. He retired from General Electric in 1992 and returned to Hot Springs, South Dakota. He passed away in 2006.

## ROBERT RECKERD WARRINER

**Bob Warriner** (EE39), 85, died at the Sweet Brook Care Centers. He was the husband of Beulah (Fox) Warriner and they were married for 54 years, living in Williamstown for 43 years. Mr. Warriner was born in Arthur, Nebraska. He attended schools in Pierre. He started his career at Wright Field in Dayton, Ohio, and later spent 10 years at Aerovox Corp. in New Bedford, Massachusetts. Mr. Warriner worked at Sprague Electric in North Adams for 25 years. He received recognition for his 35 years from Rockwell-Collins in Cedar Rapids, Iowa. He represented the United States at the several conferences of the International Electronics Committee.

## BENJAMIN ROSCOE WHARTON

**Ben Wharton** (EE49) of Wichita, Kansas died from complications of diabetes and heart disease. He was 84. Mr. Wharton was born in Huron. He was an electrical engineer during a lifetime career at the Boeing Co., most memorably working on the team that designed the Saturn Five boosters for the Apollo moon missions. His wife of 63 years, Ruth, three daughters, five grandsons and seven great-grandchildren remember him fondly.

## DUANE CLINTON WINBURN

**Duane "Hank" Winburn** (MetE43) passed away in Sun Lakes, Arizona. He grew up in Deadwood, and was

one of eight children. He and his wife of 47 years, Yvonne, raised three children. Yvonne died in 1991. Hank worked at Wright Aeronautical Corp. in New Jersey contributing to WWII by helping to build engines for B-29 bombers, including the "Enola Gay" from 1943-46. Drafted after the war, Hank requested and received assignment to Los Alamos in 1946. As a PFC, his assignment was in Plutonium Metallurgy. When he completed his service in the Army, he worked for the Los Alamos Scientific Lab in New Mexico. Hank retired in 1982 and became an entrepreneur and consultant in Laser Safety. He was the author of three technical books and developed safety eyewear for use with the laser for the military. Hank helped Los Alamos through his service to develop the community after he left the military. His specialty was fund-raising projects for the youth in the community. Hank remarried Maxine Van Hecke of Los Alamos and they moved to Sun Lakes in 1995. He wrote a partial autobiography entitled, "Tales of a Bogey Golfer" and was still writing stories for his family and his experiences in Los Alamos in a manuscript entitled "Birth of a City". As a great community leader and family man, many miss him.

## EDSON W WISELY

**Edson Wisely** (EE60) passed away from heart failure August, 28 2006. He was born August 3, 1926 in Louisville, Kentucky.

## ROGER GLEN WOLFF

**Roger Wolff** (GeolE58), 74, of Bluemont, Virginia passed away January 1, 2007 at his residence. He spent two years in the United States Army in the 101st Airborne Division. After getting his B.S., he earned his M.S. and Ph.D. in Geology from the University of Illinois. Roger worked his entire career of 33 years at the U.S. Geological Survey, culminating his career as Chief of the Office of

# Memorials

Hydrologic Research. He was awarded the Distinguished Service Award by the Department of the Interior in 1991. After his retirement from the USGS, Roger Wolff devoted his time to running Snickers Gap Tree Farm. Mr. Wolff was a member of Sigma Xi Scientific Research Society, the American Geophysical Union, the International Association of Hydro geologists and a Fellow of the Geologic Society of America. He is survived by his wife of 47 years, Mary; sons, Mark and Steven; daughters-in-law Candida and Anne; sisters, Elaine and Sharon; and four grandchildren.

## GARY HAROLD ZOODSMA

**Gary Zoodsma** (CE76) died in a motorcycle accident near Lead. He was born on a farm near Ashton in 1954. He worked as a mining supervisor for most of his career in the United States and in Colombia, South America. Gary was an experienced pilot and he enjoyed flying his aircraft for many years. He had a knack for telling stories of his travels with such exuberance that listeners would not easily forget them.

*You may have noticed that this issue of the Hardrock has more pages than previous issues. Extra pages have been added to this issue to allow for the printing of Class Notes and Memorials previously not published in the Hardrock. Please enjoy reading more about your classmates and friends in this issue than ever before! Please keep your submissions coming.*



# Advertise in the Hardrock



## For more information contact:

Melinda Poyourow  
Publications Manager  
South Dakota School of Mines  
and Technology  
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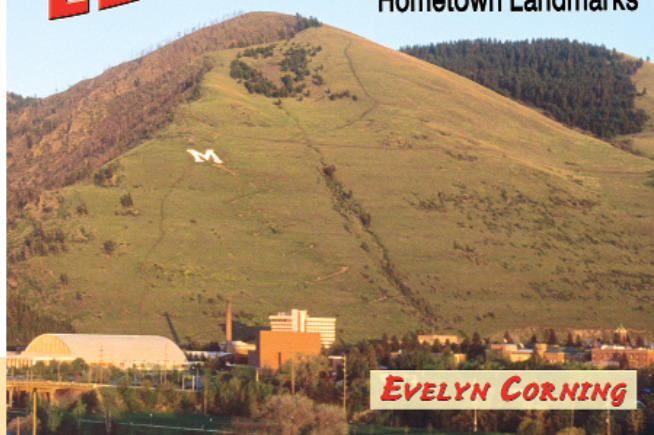
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## HILLSIDE LETTERS A to Z

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*At the Meeting of the Mines, prospective students, current students and their families, and community members gathered to learn more about campus through presentations, activities, and campus tours.*



*The AIChE (American Institute of Chemical Engineers) Student Chapter at School of Mines hosted the first annual "Dublin Dash", a 5K run/walk fundraising event. A total of 170 campus and community people registered for the St. Patrick's Day event, which started at the School of Mines campus and finished in downtown Rapid City. Spring-like weather contributed to the overall success of the event; over \$2000 was raised for student travel and scholarship funds. Photos taken by ChE senior Bridget Fiegen.*



*Each year during CAMP at the Rushmore Mall, students display their projects to the public.*



*During the annual Homecoming Parade, dozens of campus- and student-inspired floats cruised through downtown Rapid City to the delight of the many community spectators.*



*During the 2006 Day of Caring, School of Mines students donated their time to help paint a garage for an elderly couple.*



# Personnel Changes

## Welcome:

**Dr. Ying Dai**, exempt, research scientist I, materials and metallurgical engineering (2/1/07)

**Marlin K. Maynard**, faculty, instructor, industrial engineering (1/17/07)

**Dr. Dimitrios E. Anagnostou**, faculty, assistant professor, electrical and computer engineering (1/1/07)

**Roya A. Decker**, exempt, director, Women in Science and Engineering (WISE) (1/1/07)

**Dr. Sherry O. Farwell**, exempt, research scientist IV, Institute of Atmospheric Sciences (1/1/07)

**Dr. Alvis L. Lisenbee**, faculty, dean, graduate education, and professor, geology and geological engineering (1/1/07)

**Scott E. Rausch**, faculty, instructor, electrical and computer engineering (1/1/07)

**Dr. Lance A. Roberts**, faculty, assistant professor, civil and environmental engineering (1/1/07)

**Katherine A. Standish**, faculty, instructor, chemical and biological engineering (1/1/07)

**Stephen W. Wuerz**, faculty, instructor, chemistry (1/1/07)

**Coleen L. Moses**, CSA, secretary, chemistry (12/6/06)

**Susan M. Stelter**, CSA, accounting assistant, business and administration (11/6/06)

**Petra Bredberg**, CSA, library clerk, Devereaux Library (10/23/06)

**Jerilyn C. Roberts**, exempt, campus environmental safety and health manager (10/23/06)

**Diane K. Russo**, CSA, library technician, Devereaux Library (10/23/06)

**Lori D. White Face**, CSA, library technician, Devereaux Library (10/23/06)

**Michael T. Greenwald**, exempt, research scientist I, geology and geological engineering/Museum of Geology (10/16/06)

**Sarah R. Steiner**, CSA, secretary, admissions (10/06/06)

**Dr. David J. Chaiko**, exempt, deputy director, Center for Accelerated Applications at the Nanoscale (CAAN) (9/1/06)

**Michael J. Carter**, exempt, research scientist II, Additive Manufacturing Laboratory (9/1/06)

**Jamen T. Lang**, CSA, electronics technician, Center for Accelerated Applications at the Nanoscale (CAAN) (9/1/06)

**Steven J. Lawler**, exempt, electronics specialist, electrical and computer engineering/CAMP (9/1/06)

**Dr. Nuri Uzunlar**, faculty, assistant professor, geology and geological engineering, and director, Black Hills Natural Sciences Field Station (9/1/06)

## Farewell:

**Dennis Greer**, exempt, athletics (1/5/07)

**Lori White Face**, CSA, Devereaux Library (1/5/07)

**Casey Allen**, exempt, Advanced Materials Processing Center (1/2/07)

**James G. Parsons**, faculty, chemistry (12/31/06)

**Randy R. Sauter**, faculty, civil and environmental engineering (12/31/06)

**Michael A. Cook**, CSA, information technology services (12/26/06)

**Dr. Kenneth N. Han**, faculty, graduate education/materials and metallurgical engineering (12/21/06)

**James R. Hartman**, CSA, information technology services (12/21/06)

**Dr. Yi Liu**, exempt, chemistry (12/21/06)

**David L. Turner**, CSA, admissions (12/21/06)

**Kristiaan Rawlings**, exempt, residence life (12/11/06)

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**Curtis Cook**, exempt, Women in Science and Engineering Program/academic affairs (11/15/06)

**Kelli A. Kirk**, CSA, chemistry (11/1/06)

**Sandra Henry**, CSA, business and administration (10/5/06)

**Dr. Yingsong Zheng**, exempt, materials and metallurgical engineering (9/30/06)

**Dr. Jackie L. Adamson**, faculty, social sciences (9/15/06)

**Jacob M. Colvin**, exempt, Additive Manufacturing Laboratory (8/30/06)

**Thomas R. Rudebusch**, exempt, athletics (8/30/06)

### Change:

**Dr. William M. Cross**, from exempt, research scientist III, materials and metallurgical engineering, to faculty, associate professor, materials and metallurgical engineering (1/1/07)

**Karmen A. Aga**, from CSA, accountant, Office of Sponsored Programs, to CSA, senior accountant, Office of Sponsored Programs (10/16/06)

**Robert Faubert** from exempt, academic and enrollment services and drama, to exempt, drama director, Student Activities and Leadership Center (9/30/06)

**Gwenn Markham**, from CSA, secretary, Admissions, to CSA, program assistant I, Multicultural Affairs (9/22/06)



# Personnel Changes



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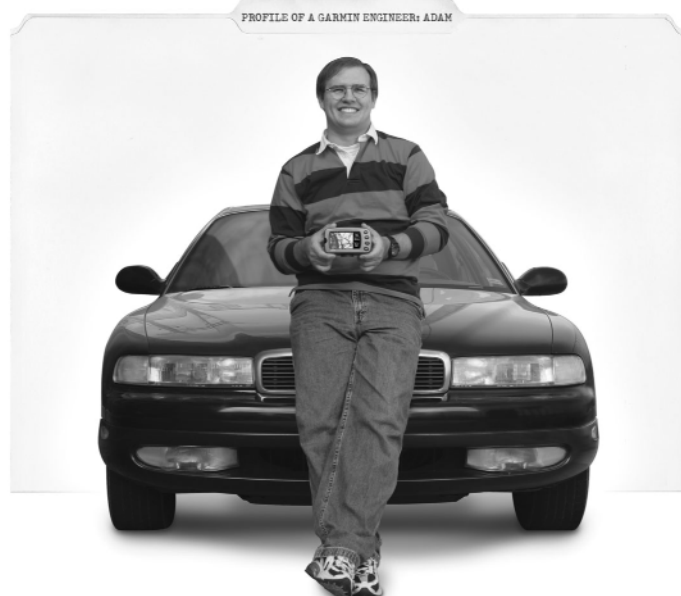
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## He's on a roll.

Just days into his first job, Adam was assigned to a product team at Garmin that was developing the company's very first GPS car navigator featuring touch screen technology. Adam, a recent computer engineering grad, rolled up his sleeves and immediately began working with other engineers on the team. He even came up with a solution that allowed the device's computer-generated voice commands to work loud and clear. Not bad for the new guy.

In the months following, this tight-knit team of engineers wrote new software, installed prototype systems and even field-tested the product. Now that's hands-on engineering.

Garmin, a world leader in GPS-enabled products and other innovative electronics, is ready to put more engineers in the driver's seat. We are seeking Software, Electrical and Mechanical Engineers.

We are currently hiring in the following departments:

Software Engineer • Design Engineer • Mechanical Engineer  
Process Engineer • EMC Engineer • Design Certification Engineer  
Aviation Systems Designer - Electrical • Flight Control Systems Engineer  
Linux Embedded Software Engineer

Send your resume to:  
Garmin, Attn: Human Resources, 1200 East 151st Street, Olathe, KS 66062  
online at [www.garmin.com/careers/](http://www.garmin.com/careers/)

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**GARMIN**

# Calendar of Events

Visit the on line calendar for details:  
<http://sdmines.sdsmt.edu/sdsmtcalendar>  
 For details about K-12 events:  
<http://sdmines.sdsmt.edu/SDTechK-12>  
 For details about athletic events:  
[www.gorockers.com](http://www.gorockers.com)  
 For details about adult and professional  
 educational opportunities:  
<http://sdmines.sdsmt.edu/learn>

**May 5**  
Cinco de Mayo  
COMPASS Day  
**May 7-11**  
Finals Week  
**May 12**  
Spring Commencement - Civic Center Arena - 9 AM  
**May 14**  
West River Math Contest  
**May 15**  
All-campus Planning Session  
**May 19**  
COMPASS Day  
**May 23-26**  
SAE Mini Baja West Competition  
**May 28**  
Memorial Day - No classes  
**June 3-8**  
Youth Engineering Adventure (YEA)  
**June 10-August 3**  
Youth Residential Camps  
**June 17-18**  
FIRST Connections - Orientation  
**June 17-22**  
Youth Engineering Adventure (YEA)  
**June 22**  
Space Adventure - 1-5 PM  
**June 25-29**  
Youth Day Camps; Camp Invention (grades 2-6)  
**June 26**  
A Walk Through Space (grades 6-8)  
 9-11AM and 1-3 PM  
**July 4**  
Independence Day - No classes  
**July 8-9**  
FIRST Connections - Orientation  
**July 15-16**  
FIRST Connections - Orientation  
**July 20**  
Visit Mines  
**August 11**  
Orientation - Athletics  
**August 30**  
Orientation - International Students  
**September 2-3**  
Adventure Weekend  
**September 3**  
Labor Day - No classes  
 Welcome Week begins  
**September 4**  
Orientation: Non-traditional, Transfer,  
 and Late Arrivals  
 Registration  
 Evening Classes begin  
**September 5**  
Classes begin  
**September 8**  
Cross Country Meet - Robbinsdale Park - 10 AM  
**October 8**  
Native Americans' Day - No classes  
**October 10-12**  
Rocky Mountain Unconventional Gas Conference  
**October 12-13**  
Family Weekend  
 Volleyball tournament @ NAU  
**October 13**  
CAMP 10th Anniversary Celebration  
 Visit Mines  
 Communiiversity  
**November 12**  
Veteran's Day - No classes  
**November 22-23**  
Thanksgiving Break - No classes  
**December 17-21**  
Final Exams  
**December 22**  
Commencement - Rushmore Plaza  
 Civic Center Theatre - 9 AM

## Alumni and Friends

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or vacation property?

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