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- Check website to see who's coming and what's being planned (www.alumnifriends.mines.edu, click on "May reunion" at bottom left)
- Find Stetson
- Book hotel room (Golden Hotel, 800-233-7214, ask for CSM Alumni block of rooms)
- Mail in registration form, or register on-line (www.alumnifriend.mines.edu, click on "online Event RSVP")
- Participate in reunion class gift (www.oia.mines.edu/give)



For Classes '40, '45, '50, '55, '60, '65, 70, 75

#### MINES WINTER 2005

Mines is published quarterly by the Colorado School of Mines and the CSM Alumni Association for alumni and friends of the School. The magazine is a merger of Mines Magazine (founded in 1910) and Mines Today (founded in 1986). The merger took place in 2000.

Comments and suggestions are welcome. Contact us by writing to MINES, P.O. Box 1410, Golden, CO 80402; or call 303-273-3294 or 800-466-9488, ext. 3294 between 8 a.m. and 5 p.m. M-F, MST; or email magazine@mines.edu

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#### **Letters to the Editor**

#### **Exciting Times Ahead**

Fellow Alumni,

We have an exciting time before us. We have seen, during the past two years, the creation of a joint operating agreement between the School and the Alumni Association, the hiring of a new executive director, the best football team the School has seen in many years and many academic achievements.



We are now embarking on a new course that will take us into the future. Your Association, with its new connections, will be able to better serve us – the alumni – and give us the ability to help and enhance the School. We have many goals before us, among them: to work with the graduate school and its alumni; to help our members with their careers; and to be more involved with the activities of our School.

Over the next several months, I hope you will take the time to contact the Office of Alumni Relations to find out what is going on, how it can help you, and how you can help your Association and the School. It is our Alumni Association and its success largely depends on you. We appreciate your help and your voice.

Alan Mencin BSc CPR '79 CSMAA President

#### The History of Mines

Dear Editor:

I have just finished reading Dr. Wilton Eckley's book, *Rocky Mountains to the World, a History of the Colorado School of Mines*. Bill Eckley's book is a must-read for everyone interested in the history of Golden, the Colorado School of Mines, the railroad hub to the mining camps, the home of Coors Brewery, and home to the "World's Foremost School of Mineral Technology."

This book was over 20 years in concept, and over 14 years in the making; finally published by the Colorado School of Mines Alumni Association. Dr. Eckley is a retired professor emeritus in humanities at Mines and the author of many historical publications. His book is wonderfully researched and recalls and captures many anecdotes, much humor, and the true Mine's sprit, weaving the reader through the leadership from the founders to the 15th president of the college. It includes a chronology of the buildings on the current Mines campus, many of them historic, and a history of Mine's athletic success and failures. Also included is a wonderful chronology of the evolution of women students at Mines. Many never-before published photos are included.

Jerry Ilgenfritz EM '61

Jerry Ilgenfritz is a resident of Golden, a past president of the Golden Pioneer Museum, and a Golden history buff.

#### Go Hannah!

Dear Editor:

The article on Hannah [Davey] was super, especially since we had only one girl at Mines when I was there

**Ted Bergstrom Met E '54** 

Getting to the CoRE of Subsurface Geology

New center a collaboration between School and industry

Short Takes 8

Stewards of the Earth and its Resources



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### Plan Reveals Campus of Tomorrow

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CSM musicians march to different plunger

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#### **About Our Cover:**

According to the mission statement, CSM is committed to serving the people of Colorado, the nation, and the global community by promoting stewardship of the Earth upon which all life and development depend.

# **Getting to** the CoRE of Subsurface Geology

By Charles Kluth

A new center for collaborative research opened in September in the Department of Geology and Geological Engineering. The office of the ChevronTexaco Center of Research Excellence (CoRE) in Subsurface Geology opened on the first floor of the west wing in Berthoud Hall after a year of discussions, planning and construction. The center will support the work of CSM and ChevronTexaco earth scientists who are part of an effort to reduce uncertainty in reservoir models by incorporating detailed outcrop studies into state-of-theart modeling programs. It is co-directed by Chuck Kluth from Mines and John Hebberger from ChevronTexaco. Preliminary work has begun to select additional, new areas in which to study deep water sediments. Work space has been established for five researchers and staff. with space for two additional scientists to be filled as the project grows. The work includes frequent phone and teleconference interaction, as well as visits to the center by ChevronTexaco earth scientists. In addition, 11 faculty, staff and students working in the Center attended a ChevronTexaco Earth Science Forum in Houston in October to present talks and posters on their work, and to exchange ideas with ChevronTexaco earth scientists. Future visits by ChevronTexaco earth scientists will include talks in the department as part of the Van Tuyl lecture series and to individual classes. ChevronTexaco scientists may also be members of committees for students master's or doctorate degrees.

The Center will also support employees of ChevronTexaco, who are from nations in

which the company works. These students will study for advanced degrees at Mines. At the opening of the center, four ChevronTexaco employee/students from Thailand, Nigeria and Indonesia had enrolled to work on master of science degrees at Mines. These students will have access to ChevronTexaco Chuck Kluth (left) and pres Trefny at data sets and offices during the official opening of CoRE offices their work in Golden. A Web site has been established to provide the activities of the center to Mines faculty, staff and friends, as well as ChevronTexaco scientists and managers. The site is linked to the Department of Geology and Geological Engineering web page and includes information about resources such as grocery stores, interest groups, and places of worship from other cultures, in the Denver area and at Mines, in addition to information about the scientific work and staff at the center. Part of the purpose of listing the cultural resources is to ease the transition for the students and their families from working in a corporate environment in some distant land to being a student at Colorado School of Mines. Charles Kluth is the co-director of CoRE and a CSM distinguished senior scientist.

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# Short.

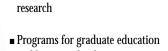
#### **NREL and Mines Sign Cooperative Agreement**

The U.S. Department of Energy's National Renewable Energy Laboratory (NREL) and Mines have taken the first steps toward establishing a joint research institute, one of an anticipated series of partnerships between the two leading organizations for energy research.

NREL Director Richard Truly and Mines President John Trefny have signed a Memorandum of Understanding, paving the way for a number of planned collaborative efforts. Mines and NREL have a history of working together on energy issues of concern to each, and

the new agreement envisions a more formal, ongoing relationship, especially in three key areas:

Richard Truly and
Mines President John Trefny.



■ Strategic initiatives for fuel cells.

materials science and related

and business development ■ Sharing staff and managing intellectual property, including

#### **ACSEL Lands** \$1.1 Million

jointly developed patents.

The Advanced Coatings and **Surface Engineering** Laboratory in the Department of Metallurgical and **Materials Engineering** has been awarded three research contracts

worth in excess of \$1.1 million to conduct research in nanostructured thin films and coatings over the next two to three years. These contracts are from the:

- U.S. Department of Energy for the development of "smart" die coatings
- U.S. Air Force Research Laboratory for the development of nanostructured, high temperature adaptive coatings for the Joint Strike Fighter (JSF)
- Timken Company for the development of high temperature coatings for bearings for the JSF.

#### Mines Women Rock!

The membership of the Mines chapter of the Society of Women Engineers (SWE) is ranked seventh in the nation among all universities.

At the SWE national conference in October, the Mines SWE section received the 2004 Outstanding **Student Activities** Award. The group's adviser is **Candy Ammerman** BSc BE '81, **Engineering Division** 

instructor.

#### **Lecturer Awarded TMS Distinction**

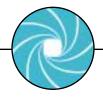
Professor Patrick R. Taylor BSC Met, Math '74, PhD Met '78 of

Metallurgical and Materials Engineering is the recipient of the 2006 Extraction & Processing Distinguished

Lecturer Award, which will be presented during the annual meeting of The Minerals, Metals & Materials Society (TMS) in 2006 in San Antonio, Texas.

#### Aid to Tsunami Victims

Professor Tissa Illangasekare is the U.S. coordinator of a project initiated by LacNet to protect and and decontaminate drinking water wells in areas affected by tsunami flooding in Sri Lanka in December. The wells provide potable water to displaced people in refugee camps, temples and churches.



#### **Assistant Labor Secretary Delivers** Check

The U.S. Department of Labor's Mine Safety and Health Administration (MSHA) has awarded a \$380,000 contract to Mines for demonstrations of technologies to detect underground mine voids.

The 2002 flooding at the Quecreek mine in Somerset, Pa., "taught us that the danger of mining coal in the vicinity of poorly mapped, abandoned and inaccessible coal mines is not uncommon," said Assistant Secretary of Labor Dave D. Lauriski during a ceremony at

accurately detecting mine voids. **MSHA** Attending the MSHA check presentation were from left, received 58 Attending the MSHA check presentation were from left,

Mining Engineering Department Wood Tiber Possonyi proposals Mining Engineering Department Head Tibor Rozgonyi, and ultimately Wining Engineering Department Head Tibor Rozgon; Mining Engineering Associate Professor Scott Kieffer, Assistant Secretary of Labor Dave D. Lauriski, selected eight organizations for contract awards. Mines will conduct seismic testing at the tools and geophysical techniques that School's Edgar have the potential to increase the Experimental Mine in Idaho Springs.

success and reliability of



**NPR Star** 

Joanne Greenberg's fiction-writing class was featured on National Public Radio's "All Things Considered" program in January. Titled "Training 'Geeks' to Write Creatively," the story was one of five "Popular College Courses" covered by NPR in a weeklong series. To read about it, go to the Features Archive on the "All Things Considered" page of www.npr.org.

#### **NSF Director Addresses December Grads**

National Science Foundation (NSF) Director Arden L. Bement Jr. Met E '54 was the keynote speaker at midyear commencement ceremonies Dec. 17, when 269 degrees were conferred.

Honorary degrees were awarded to Bement and William J. Barrett, currently chairman, CEO and co-founder of the Bill Barrett Corporation, a Rocky Mountain exploration and production company formed in 2003.

Mines Medals were presented to

Wilton Eckley, author of Rocky Mountains to the World: A History of the Colorado School of Mines, and to Waverly J. Person, director of the U.S. Geological Survey's National Earthquake Information Service.

SWE Members on the steps of Guggenheim Hall

SHORTS TAKES



From left, John U. Trefny and Arden L. Bement Jr.



From left. Waverly J. Person and Wilton Eckley



Kathy Barrett Lee

Board of Trustees Member DeAnn Craig BSc Chem '73, BSc CPR'80, MSc Min Ec '02 and Board President Michael S. Nyikos

# Short



#### **Furtak Awarded FIPSE Grant**

The Fund for the Improvement of Postsecondary Education (FIPSE) in the U.S. Department of Education, through its Comprehensive Program, has awarded a \$546,413 grant to Physics Professor Thomas Furtak for the project Calculus-**Based Introductory Physics: Maximizing Learning Effectiveness** in an Online Delivery Format.

#### Friehauf on "ESPN Zone 2Day"

Mines quarterback Chad Friehauf was the featured guest on the sports talk show "ESPN Zone 2Day" at ESPN Zone in Denver in November, Host

Kerry Fowler talked with Friehauf about his incredible season, post-season hopes, and a future in football.



#### Tapped by Hall of Fame

The Independent Petroleum Association of Mountain States has inducted F.H. "Mick" Merelli PE '59

and Mines Professor

Emeritus Robert J. Weimer into the Rocky Mountain Oil and Gas Hall of Fame, honoring their distinguished role in the industry during the last 30 years.

#### Campus Maintenance, Top to Bottom

Maneuvering a 120-foot boom lift around Guggenheim Hall, Randy Gray, Mike Ray and Bob Slavik of Mines Plant Facilities examined the



dome for hail damage, checked the condition of the roof, and washed the windows.

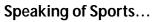


From left, Jason Koltz, Head Coach Bob Stitt, Scott Carey and Mat Steinberg

#### Way to Go, Coaches!

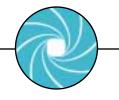
The 2004 football coaching staff was honored by the School's Board of Trustees with the firstever Coaches Distinguished Achievement Award, recognizing the football team's fall season as "historically significant in the annals of Mines sports."

SHORTS



Marcia Neville, reporter for KCNC TV Channel 4 in Denver, was guest speaker at the Mines 2004 homecoming luncheon. Neville urged the community to embrace traditions and enjoy the changing athletic seasons.





#### **Students Design Energy-Efficient** Orphanage

Seniors show off the Arad Children's Home at the Engineering Division Senior Design Trade Fair. The house was designed by the students to provide a family atmosphere in an energy efficient manner for orphans in Romania. The home is a project for the Global Hope organization.



#### Young Scientist Honored

The 2004 Outstanding Young Scientist Award was presented to Assistant Professor Moneesh Upmanyu at the Second International Conference on Recrystallization and Grain Growth held recently in Annecy France. Upmanyu, Engineering Division, was a keynote speaker at the conference.

#### Mines to Research Hydrogen

J. Douglas Way, Chemical Engineering, has announced that Mines is part of a team that has won a \$2.4 million, three-year Department of Energy contract for a hydrogen research project. Mines will work with the Pall Corporation, ChevronTexaco and Oak Ridge National Laboratory to make systems that generate and separate hydrogen.

#### **CERI Appoints Board**

Newly appointed Colorado Energy Research Institute (CERI) Advisory Board members are:

**Rick Grice**. Executive Director – State of Colorado Office of Energy Management and Conservation

Robert Kee. G.R. Brown Distinguished Professor of Engineering - CSM

Joe Lambert, Program Manager -State of Colorado Office of Energy Management and Conservation

Dag Nummedal, Director - CERI

Director - Exploration, Production

and Gas Processing Center, Gas Technology Institute

### Steve Sonnenberg PhD Geol '81.

Manager of Exploitation - Kerr-McGee Rocky Mountain Corporation

Robert Stokes, Vice President -Research and Deployment Division. Gas Technology Institute

The board will assist in formulating CERI's policies, make recommendations to the director regarding funding priorities and research agenda, advise on technical and managerial matters, and offer guidance on the selection of candidates to fill staff positions.



funding is through a charter partnership that includes Mines, the Colorado Governor's Office of **Energy Management and** Conservation and the Gas Technology Institute. CERI promotes research and educational activities

through networking among all constituencies in the Colorado

Kent Perry BSc Pet '73, Executive

energy industries and universities.

10 MINES WINTER 2005

# Stewards of the Earth and its Resources

hroughout CSM's 130-year history, the translation of its mission into educational programs has been influenced by the needs of society. Those needs are now focused more clearly than ever. The world faces a growing crisis in balancing resource availability and utilization with environmental protection and preservation. CSM and its programs are central to the solution to that crisis. As a university founded on mineral and energy exploration, ithout proper management, acid-mine drainage, and as that from the upper mine tunnel drainage, can cause water quality problems and damage, streams, rivers and lakes, amage CSM has a unique focus on providing students with education and research opportunities that revolve around responsible stewardship of the Earth and its resources. In September, CSM published its 10-year strategic plan in

which a commitment is made to

where CSM will cultivate world-class

scholarly expertise.

preservation and stewardship of the

environment as one of four focus areas

Preservation and stewardship can be interpreted to mean sustainability of the biosphere and its environmental systems. However, we as a society have not yet determined the best approach to achieve a balance between sustainability and resource availability. During her 2003 keynote address to the National Council for Science and Environment. Rita Colwell, former director of the National Science Foundation (NSF), stated, "We know that the impact of humans on natural systems is increasing, but we don't yet have the full picture of how environmental change - human induced or otherwise - will cascade through natural systems." Colwell also noted that NSF completed a study that led to a 10-year research agenda for environmental research and education, the title of which, "Complex **Environmental Systems: Synthesis for Earth,** A CSM student monitors a full-scale membrane system used for treatment of water in California Life and Society in the 21st Center," is insightful to the nature of the challenges.

**Preserving and protecting complex** environmental systems while enabling beneficial use of resources and a high standard of living requires interdisciplinary expertise and state-of-the-art facilities. CSM has a wealth of expertise and facilities to explore different aspects of environmental systems and advance the science, engineering and technology needed while addressing social, economic and political dimensions. Environmental research and curriculum at CSM is diverse in character, substantial in magnitude and significant in impact. Virtually every department and division is conducting important research and educational activities related to environment. CSM faculty and

staff have international reputations for their accomplishments in environmental research and education exemplified by their service as editors for major environmental journals, as chairs of sessions at national and international meetings, and as experts on panels for the NSF. National Research **Council, Environmental Protection Agency** (EPA), and Departments of Defense and **Education. The environmental focus has** many dimensions, encompassing a wide range of activities such as research and development of new biosensor devices. technologies to produce clean water and methods to control global climate change. Among the varied activities at CSM, an established and growing thrust area concerns sustainable water resources and systems.

Sustainable water resources and systems are critical to the well being of any society and the integrity of the planet. For example, understanding the behavior and effects of contaminants in water is vital to development of practices and technologies to prevent and minimize adverse effects to human health and ecosystems. In water and

wastewater treatment and reuse, major efforts are focused on developing best management practices and effective technologies for removal of heavy metals and pathogens as well as emerging contaminants such as pharmaceuticals and personal care products so that the nation's waters are clean and drinking water is safe. Water resource management is particularly critical to the West so significant research efforts are also directed toward wastewater treatment methods that prevent contamination of water resources and enable beneficial reuse of water, organic matter and nutrients. In addition, significant research is focused on development of treatment methods and strategies

that enable augmentation of public and private water supplies through indirect potable reuse of wastewater effluents. Remediation and reclamation of contaminated land and water is a huge problem in the United States and around the world. CSM activities encompass development of advanced characterization techniques to determine the type, mass and spatial distribution of contamination in land and water that enables risk assessment to guide necessary and appropriate cleanup measures. Research and development is also focused on new methods for remediation based on physical/chemical and biological processes that are faster, safer and cheaper. Finally, water-related environmental decision-making is increasingly being done at the watershed scale. CSM has an array of activities in this area including field studies to quantify water resource quantity and quality and to understand the surface water and ground water interactions in Colorado watersheds; development of tracer techniques including DNA fingerprinting and chemical signature analysis to delineate contaminant sources and select best management practices to improve impaired

water quality; and development of models and decision-support tools to aid land use management in watershed scale systems.

**Environmental activities at CSM link with** the other focus areas outlined in the School's strategic plan. For example, related to the energy focus, research is ongoing to develop hydrogen fuel from bacteria fate as well as the transport of uranium and plutonium released into the nvironment at nuclear energy valerial.

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CSM's environmental research and education have a demonstrated global reach. In the area of water supply and wastewater reclamation, many faculty and staff are working with researchers in several countries. For example, since 1988 I have been working closely with the Agricultural University of Norway on research related to ecological engineering and appropriate technologies for wastewater reclamation and beneficial reuse. Jorg Drewes has been advancing the science and engineering of water

abandoned mine sites.

By Dr. Robert Siegrist

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of the NATO Committee on Challenges from the l countries met at CSM to discuss science and countries met at CSM to discuss science and lessons technology and to exchange ideas and lessons technology and to exchange ideas are learned concerning remediation of learned concerning remediations.

Sulfate reducing bacteria can be used to water resources.

reuse through collaborations with the Water Competence Center in Berlin, Germany, the Institute of Water Chemistry in Dresden,

Germany and the Gwangju Institute of Science and Technology in South Korea. John McCray is working with the University of Botswana on research related to water resources and quality management. Phil Ross has been engaged in a research collaboration for the past 11 years with the University of Aveiro in Portugal to determine the factors affecting the bioavailability of toxic heavy metals in terrestrial and aquatic environments. Hussein Amery has been researching transboundary water

aquatic environment of the art facilities in the been researching transboundary watch on the contamination transport used to study of fective remediation.

aquatic environment of the contamination transport of the CSM issues in the Middle East for the last 12 issues in the Middle East for the last 12 years. He recently started working on cultural and water management focusing on the Islamic perspective, and spent a year in the Arabian Peninsula researching desalination issues.

In the area of remediation of contaminated land and water, CSM faculty and staff have international connections and stature. For nearly 12 years, I was a Fellow with the NATO **Committee for Challenges to Modern** Society and an active participant in its study on evaluation of demonstrated and emerging technologies for cleanup of contaminated land and groundwater. In 1997. CSM hosted an international environmental meeting for NATO during which more than 75 participants from over 20 countries discussed remediation science and technology, exchanged lessons learned and developed best practices. Tissa Illangasekare has ongoing collaborations with researchers in many parts of the world. For example, collaborations with Cambridge University have

ongoing collaboration of Golden Drinking Water ting the education of CSM students.

with Cambridge University have focused on the application of geotechnical centrifuges to study groundwater contamination problems and development of wireless networking for ground water plume monitoring. With Copenhagen University in

Denmark, studies have been focused on multiphase fluid behavior in heterogeneous aguifers and runoff from subfreezing snow in Greenland. Eileen Poeter is working on a joint project between CSM, EPA, U.S. Geological Survey (USGS) and the University of **Queensland Australia to** facilitate advances in sensitivity analysis, data needs assessment, calibration and uncertainty evaluation. Ron Cohen was selected to complete environmental audits of three gold mines in Mali, West Africa, during which he examined potential water contamination from mine pit waters, waste rock piles and

tailings repositories.

A number of research centers at CSM are involved in environmental research and educational activities, including the International Ground Water Modeling Center (IGWMC), Center for **Experimental Study of Subsurface Environmental Processes (CESEP), Center for Environmental Risk** Assessment, Rocky Mountain Hazardous **Substance Research Center, and the Rocky Mountain Small Flows Program. The IGWMC** (typhoon.mines.edu/), directed by Poeter, is a focal point for ground water professionals to support and advance the appropriate use of qualityassured models in ground water resources protection and management. The IGWMC provides advice on ground water modeling problems, distribution of ground water modeling software, manages short courses and workshops, and conducts research in applied areas of ground water hydrology and modeling. CESEP (cesep.mines.edu/), directed by Illangasekare, enhances environmental quality through experimental investigation of subsurface environmental processes and remediation techniques leading to improved and cost-effective cleanup methods and decision-support tools. It has state-of-the-art experimental and modeling facilities and carries out collaborative research with national and international groups.

Opportunities for students to learn about environmental science, engineering and technology as well as the social, economic and political dimensions are multifaceted at CSM. Faculty routinely work on educational initiatives with organizations around the world. Exchange students from such countries as France, Germany, Austria, Spain, Italy, Czech Republic, Denmark, Sweden, Norway, India, Nepal and Korea often carry out water-related projects while

they attend CSM, or such projects may be carried out by CSM students studying abroad. Last year, Cohen helped develop curriculum and courses on water and wastewater treatment in Nepal and also worked with the Indian government on environmental management capacity building, particularly in regard to mining-related water pollution.

Through CSM's senior design curriculum and with funding provided by a grant from the Hewlett Foundation, several international water projects have been completed. Last fall, CSM students were involved in a drip irrigation project in Senegal. They put in a well, checked for salt water intrusions and installed an irrigation system. Another project involved water purification, sewage treatment and electrical power development in a town near Villanueva, Honduras. Previously, a senior design team designed a solar-powered water pumping and water distribution system for San Pablo, Belize. The team of students designed a low cost (less than \$15) durable foot pump that can easily be manufactured by local villagers using local materials and is easy to reproduce and run. In another project, students designed a water purification system for Yarmasing, Nepal.

CSM students also participate in research through independent study projects or as part of their master's or doctorate degrees. They can join campus activities and clubs such as Engineers for a Better World (www.mines.edu/stu\_life/organ/ebw), a chapter

of the national organization, Engineers without
Borders (www.ewb-usa.org), and Earthworks
(www.mines.edu/stu\_life/organ/earth). Students
participate in student chapters of national
organizations and societies that have a focus on
environment. For example, CSM students
formed a chapter of the Water
Environment Federation and
American Water Works
Association, the first such
chapter established in
Colorado.

Exemplifying CSM's commitment to the environment is The Youngs'
Environmental Symposium series.

Made possible with funding from
Herbert L. EM '39 and Doris S. Young,
the symposium series is done in collaboration with the
Audubon Society to stimulate dialogue and creative problem solving to prevent and mitigate environmental problems
related to exploration, recovery and utilization of

Earth's resources. Symposium topics to date have

included oil exploration in the Arctic National

Wildlife Refuge and the development and future impact of renewable energy sources.

Without a doubt, CSM has an important role to play in protecting and preserving environmental quality and human health through its environmental research and educational activities. While the challenges are daunting, the expertise and facilities at CSM along with a commitment to quality and impact for Colorado, the nation and world, will help maintain the integrity of the planet and foster an

environmentally sustainable future.

Robert Siegrist is a professor and Environmental Science & Engineering Division director.

14 MINES WINTER 2005
COLORADO SCHOOL OF MINES

15 MINES WINTER 2005

# ΠΒΦ ΑΦ ΣΚ ΑΤΩ ΒΘΠ ΚΣ ΦΓΔ ΣΑΕ ΣΝ ΣΦΕ

#### FRATERNITIES AND SORORITIES FLOURISH AT MINES







Three new sorority houses have been constructed on West Campus Road. These 8,500-square-foot, semi-custom-built homes provide state-of-the-art living facilities for 20 women in each house



At a local restaurant, sorority members celebrate the addition of new members.

raternities, and more recently sororities, have a long and positive history of involvement in, and support for, the Mines campus and community. The School has recently completed construction of new houses for the three sororities on campus. The houses are located next to each other, which promotes closeness among the sororities. "In the past few years, we have been working on doing things together, not just as individual sororities," says Mandi Stewart, who was president of Sigma Kappa through last fall. Two of the fraternity houses are also owned by the School. The other five fraternities own their own houses. About 19 percent of the women on campus belong to sororities while a little more than 14 percent of the men belong.

The Mines Greek community includes sororities Pi Beta Phi, Alpha Phi and Sigma Kappa. Fraternities are Alpha Tau Omega, Beta Theta Pi, Kappa Sigma, Phi Gamma Delta, Sigma Alpha Epsilon, Sigma Nu and Sigma Phi Epsilon.

All Greek chapters at Mines are affiliated with national organizations and are based on a rich tradition of strong values and standards. Through these values and standards each chapter strives to instill in its members a depth

> of character, wisdom, a sense of brotherhood/sisterhood and a commitment for service to the campus and community. The goal is to create a well-rounded and stronger individual. Membership in Greek chapters provides opportunities for leadership through offices and chairmanships, and every chapter strongly encourages

its members to participate in other organizations on campus. "The Greek community at Mines provides students with an outlet to get involved, learn about leadership and make a positive contribution to the campus," says Derek Morgan, director of student activities.

A major focus of each chapter is the academic success of its members. Each chapter has a minimum grade-point average requirement for membership and members must maintain a certain average to remain in good standing. Every semester, the members of the Greek community maintain an impressive grade-point average of approximately 3.0. To encourage academic success, chapters offer their members study halls, tutors and scholarships for those members who demonstrate significant achievement.

Community service is another major theme of Greek life. Each year Greek chapters donate thousands of hours of volunteer service and thousands of dollars to local and national charities. Chapters host several fund-raising events during the year, often in partnership with another chapter. Events include date auctions, charity barbecues, serving concessions at Bronco games and jail-bail events. Some of the local charities that benefit include St. Jude's Children Hospital, the Golden Railroad Museum, the Special Olympics and Bonfils Blood Center.

Greek life also offers many social opportunities. Every semester, chapters host social events such as formal and informal date parties, brotherhood and sisterhood events, activities



Tropical was the theme for a sorority recruitment evening.

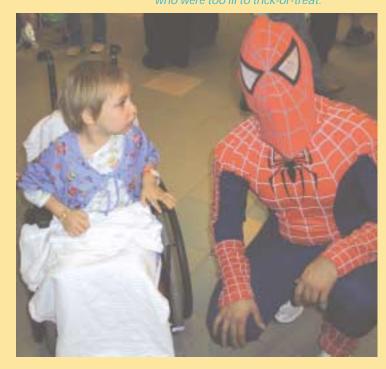
with other chapters, such as Homecoming events, and intramural sports teams. In the spring, all chapters celebrate Greek week, which includes faculty appreciation and community-service events. Chapters also invite family members to participate in parents' day and family day events.

"The School and the Greek system are working very hard to enhance the living-learning opportunities available to members of the sororities and fraternities and to transform the chapters into integral members of the Mines academic and social community, dedicated to service, fellowship and leadership, rather than the stereotypical attributes too often associated with fraternities and sororities," says Dean of Students Harold Cheuvront. "To this end, the Student Life Division last year funded and hired the first full-time Greek adviser whose job in-part is to accomplish this transformation."

The on-campus governing bodies for the fraternities and sororities are the Inter-fraternity Council and the Panhellenic Council. The leadership is selected from the various chapters and their goal is to improve Greek life on campus and to serve the Mines community.



Sponsoring a Halloween carnival at Children's Hospital, members of Sigma Kappa and Sigma Phi Epsilon provided refreshments and led games for children who were too ill to trick-or-treat.



For more information about Greek life at Mines, see www.mines.edu/stu\_life/activities/greek\_life.shtml

ΠΒΦ ΑΦ ΣΚ ΑΤΩ ΒΘΠ ΚΣ ΦΓΔ ΣΑΕ ΣΝ ΣΦΕ

16 MINES WINTER 2005
COLORADO SCHOOL OF MINES
COLORADO SCHOOL OF MINES

# CSM Athletics winter 2004

# Football Team Enjoys Best Season in School History

CSM was on the gridiron where the Orediggers posted a 12-1 record and won the Rocky Mountain Athletic Conference Championship for the first time since 1958 by going 8-0.

In addition, the team placed 18 individuals on the All-RMAC Team, including senior quarterback Chad Friehauf (no. 7) who was the Offensive Player of the Year, redshirt freshman Marin Richardson who was the Freshman Defensive Player of the Year and Head Coach Bob Stitt wh earned Coach of the Year honors.

Joining Friehauf on the First Team offense were junior wide receiver Justin Gallas and junior offensive lineman Travis Yenne. On d senior strong safety Daniel Leger, junio

Van Horn, senior wide receiver Jonny Chan, sophomore tight end Bryan Florendo, sophomo offense, while junior cornerback Nick Gilbreath Donnelly were Second Team picks on

The highlight of the 2004 fall athletics season at linebacker Jared Heath and sophomore free safety Senior cornerback Brian Yureskes and sophomore

After a perfect regular season (11-0), CSM earned the fourth seed in the Southwest Region and hosted Midwestern State in the First Round of the NCAA Division II Playoffs on Nov. 13. Playing in the first playoff game in School history, Mines advanced to the second round with a 52-33 win at

However, the Orediggers ran into a red-hot nation and was coming off a first round bye. The Gorillas, who eventually finished second in the nation, raced out to a 28-7 lead at the end of the first quarter and ended CSM's season, 70-35





CSM quarterback Chad Friehauf was presented the Harlon Hill Trophy on Dec. 10 in Florence, Ala., as the top football player in Division II. He became the 19th winner of the prestigious trophy and the first player from Mines and the Rocky Mountain Athletic Conference to win the award.

Friehauf finished the 2004 season with an NCAA Division II record 384 completions in 516 attempts (74.4%) for an NCAA Division II record 4,646 yards and 39 touchdowns, the 10th best for a single season in Division II history. He also ran 144 times for 717 vards and 15 touchdowns. He set an NCAA Division II record with 5,363 yards of total offense this

season and his 412.5 total offensive yards per game was also an NCAA II single season record.



The 6-foot-7 Friehauf finished his career as the all-time leader at Mines in attempts (1,183), completions (773), passing vards (9.873) and touchdowns (84). He was 22-8 (.733) as the starting quarterback at CSM.

ranks him ninth all-time in Division II with quarterbacks who have a minimum of 25 starts, is sixth on the alltime Division II total offense list (10,679), 12th in career pass efficiency (152.6), tied for 11th on the all-time passing yards list (9,873) and 15th on the all-time passing touchdown list (84).

A civil engineering major, Friehauf was slated to play in two all-star games in January with hopes of playing in the NFL.

### 2004 Fall **Athletics Highlights**

SOCCER: The CSM soccer team concluded the season with an overall record of 10-4-5 (7-3-2 RMAC). CSM, which qualified for the RMAC Tournament for the fifth straight season, had its season come to a close with a loss in a shootout to Metro State in the tournament semifinals. Senior defender Brian Blaskovich concluded his brilliant career at Mines as he was named the RMAC Defender of the Year and First Team All-RMAC. He was joined on the All-RMAC First Team by junior forward Rafael Ribeiro and sophomore goalkeeper Kevin Galloway. Ribeiro led the squad with eight goals and 19 points, while Galloway recorded eight shutouts in goal.

CROSS COUNTRY: Both the men's and women's cross country teams missed out on a spot at the NCAA Division II National Championships by just one spot as the men placed seventh and the women sixth at the North Central Regional Championships. Sophomore Larry McDaris did individually qualify for Mines and placed 52nd overall at nationals. Juniors Heather Beresford and Hannah Davey earned All-RMAC honors for the first time in their careers by placing eighth and ninth, respectively.

VOLLEYBALL: CSM wrapped up its season at 12-16 overall and 7-12 in RMAC play. The Orediggers came on strong at the end of the season as they won six of their final nine matches.

> The three losses came to nationally ranked teams, including a five-set loss at Metro State and a four-set loss to Fort Hays State, teams that qualified for the Southwest Regional Tournament. Sophomore middle blocker Amanda Rebol earned Second Team All-RMAC accolades, while junior Sarah Alsbrooks was an Honorable Mention pick after totaling 5.9 digs per game.

> > GOLF: The CSM golf team capped a successful fall season by placing fourth at the RMAC Championships, its highest finish in program history. Sophomore Mark Vallee earned All-RMAC honors by finishing third overall. CSM also placed sixth at the Fall Regional Qualifier.

TENNIS: The Oredigger tennis squad completed an outstanding fall season at the ITA Midwest Regional Championships as senior Matt Rychlik placed second overall in the tournament and teamed with Teemu Syrjanen to reach the semifinals of the doubles competition.



#### February

28 SME Annual Meeting and Exhibit Feb. 28-March 2, 2005 in Salt Lake City. Time and place TBA.

#### March

Golden, Colo., Lunch Golden, Colo., Zames Bunch: second Thursdays at Buffalo Rose 1119 Washington, 11:30 a.m. Downtown Denver Mixer: second Thursdays. Marlowe's, 211 16th Street, 5-7:30 p.m. Pay own way. Grand Junction, Colo., section luncheon: second Thursdays, Bookcliff Country Club, 2730 G Road, noon. For information call John Howe at 970-242-4903.

#### March

10-12 Boston, Mass., alumni event. National Indoor NCAA Track & Field Championships, TBA.

Bone Valley, Fla., BBQ, IMC picnic area, on state highway 37, 17.5 miles south of Mulberry, Fla.

#### April

5th Annual Houston Golf Tournament. Augusta Pines Golf Course. Details TBA.

Golden, Colo., Lunch Bunch (see March 10 for details).

Downtown Denver Mixer (see March 10 for details). Grand Junction, Colo.

### April

section luncheon (see March 10 for details)

Walnut, Calif. 3- | 6 Alumni track event. Mt. Sac Relays, TBA.

**Alb**uquerque. Alumni JU track event. Don Kirby Invitational, TBA.

#### May

Reunions for -14 Reunions for classes 1975, 1970, 1965, 1960, 1955, 1950, 1945, 1940.

Golden, Colo., Lunch Bunch held in conjunction with reunions. Downtown Denver Mixer (see March 10 for

#### May

details).

Grand Junction, Colo., section luncheon (see March 10 for details)

Abilene, Texas. NCAA II
Outdoor Track & Field Championships. TBA.

#### June

Annual Golden Alumni Golf Tournament, Fossil Trace Golf Course. 7:30 a.m. shotgun start.

Golden, Colo., Lunch Bunch (see March 10 for details)

Downtown Denver Mixer (see March 10 for details)

For the most up-to-date information on what's happening in your area, check the website at www.alumnifriends.mines.edu and click on "News and Events" (top of page). Scroll down to the calendar.

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MINES WINTER 2005

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#### COLORADO SCHOOL OF MINES FOUNDATION, INC. FINANCIAL REPORT SUMMARY For fiscal year ended June 30, 2004

The Foundation's annual financial statements were audited by the public accounting firm of BKD LLP. The following comments highlight the significant financial information contained in the audited financial statements:

Total net assets held by the Foundation at June 30, 2004 amounted to \$129.3 million. This is a 16.1 percent increase (\$18 million) from the prior fiscal year. The increase is due to endowment pool investment returns and contributions revenue.

Total contributions (pledges and unpledged gifts) totaled \$10.8 million. The Foundation's long-term investment pool gross annual return for the fiscal year 2004 is 18.3 percent. The portfolio's composite index benchmark for the same period is 17.3 percent.

Of the \$129.3 million in net assets, \$116.9 million (90 percent) is restricted by donors to support specific purposes of Mines. The top three gift restrictions are financial aid (\$49 million), professorships/faculty support (\$38 million) and departmental support (\$22 million). In this net assets category are charitable remainder trusts with a net present value of \$6.3 million.

Unrestricted net assets of \$12.4 million are largely comprised of Board-designated endowments of \$7.6 million. The remaining balance consist of campus real estate and fixed assets (\$1.4 million), CSM student loans (\$1.1 million), gift annuities program (\$762,000) and undesignated or general funds (\$1.6 million).

The undesignated unrestricted funds of \$1.6 million are used to support: Office of Institutional Advancement development activities, Foundation Operations, CSM Office of External Affairs, CSM Administration and Alumni Associationgeneral support

If you are interested in receiving a copy of the CSM Foundation, Inc. audited financial report for fiscal year ending June 30, 2004, please call Linda Landrum, managing director/treasurer, at 303-273-3142.

# Alumni notes & quotes

#### **Seeton Publishes Book** on Minerals

MINERALS THEIR CHARACTERISTICS Frank Secton EM '47 recently published a booklet, Minerals and their Characteristics, which describes more than 200 minerals in a condensed and convenient form for the mineral collector, rock hound, geologist and student. The booklet sells for \$4 and can be purchased at the National Mining Hall of Fame and Museum in Leadville, Colo., Western Museum of Mining and Industry in Colorado Springs, Colo., and Taylor Park Trading Post in Gunnison, Colo. The publication also points out the importance of metals and mineral compounds in our daily lives. Seeton has worked in the mineral industry for 45 years and is a Legion of Honor member of the Society for Mining, Metallurgy and Exploration.

# Ordoñez '29 Named to Mining Hall of Fame

Georges Ordoñez EM '29 is a 2004 inductee from mining's past in the American Mining Hall of Fame. He was a member of the generation of visionary, strong-willed and hardworking professionals in the mid-20th century who were directly responsible for the current abundance of the world's developed mineral resources.

Ordoñez was born in Mexico City in

1907. After graduation from Mines, he became involved with petroleum exploration and production in the United States, Venezuela and Mexico. In 1940, he joined Kennecott Copper Corporation and for 21 years was instrumental in the development of several copper districts in the southwestern United States and in the discovery of the copper porphyry belt in

After leaving Kennecott, Ordoñez joined the faculty at universities in Mexico City and Guanajuato. He was active on boards of directors for numerous mining companies and also headed the Mexican Chamber of Mines. Throughout his career, he enjoyed working with young people, both in the classroom and in the field. His many honors included CSM's Distinguished Achievement Medal in 1964 and the Minero Distinguido

#### McNeely '51 Celebrates 60th Anniversary

Wayne McNeely PE '51 and his wife, Elva Jean, celebrated 60 years of marriage Nov. 6. Elva Jean worked at Foss Drug and the Holland House during her husband's years at Mines. "My wife, as well as our oldest



son, Donald, made all four years with me while I was attending Mines," McNeely says. "Our oldest daughter was born to us during my sophomore year and our second daughter was born to us as I was graduating - so Mines has been a big part of our lives. We later had one more child, a son."

McNeely took early retirement from Mobil Oil in 1984 and has consulted internationally for many years. He and his wife summer in Yellowstone National Park where McNeely manages a large retail store.

#### Veeder '42 Writes **About Stress**

Arthur K. Veeder Met E '42 has published his theory about stress and disease in The Emotional Marathon. He shares the story about how he and his wife defeated chronic illness by eliminating stress. "Anatomists tell us that there are two main divisions within our emotional system; one that carries out all the ordinary functions of life, and the other

that deals with emergencies..." Veeder writes. "Emotional energy up to a certain point allows us to maintain a normal, healthy and restful state, but if allowed to exceed a certain energy threshold, it does not. If barely above this marginal threshold, wear and tear gradually takes place within the body, eventually terminating in some kind of a chronic affliction, depending on where physiology in an individual is the weakest."

Veeder is a retired senior civil engineer. More information about his book can be found at www.authorhouse.com.

(Distinguished Miner) from the Mexican Chamber of Mines in 1984.

# A Conversation with *Transforming Resources*Campaign Co-Chair Steve Chesebro'

As part of CSM's Strategic Plan and the *Transforming Resources* campaign, the School identified funding the Petroleum Engineering Department's first distinguished endowed chair as a priority. Answering the call, **Steve PE '64 and Dollie Chesebro'** committed gifts totaling \$2,500,000 to establish the **Chesebro'** 



Steve and Dollie Chesebro'

**Distinguished Chair in Petroleum Engineering**. Through their extraordinarily generous gift, the Chesebro's have put the Petroleum Engineering Department, already ranked among the best in the world, in the position to greatly expand its research scope and enrich the educational experience it offers to students.

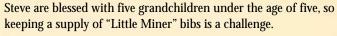
The department has just begun the search for a world-class scholar to fill the Chesebro' Chair. Mines is seeking an individual with extensive industrial experience, the ability to lead a cutting-edge research program and to teach undergraduate and graduate courses, and the capability and interest to integrate the teaching of business ethics into his or her teaching efforts.

Chesebro' was able to attend Mines through the assistance of an athletic scholarship. He played both football and baseball, and earned all-conference honors in baseball. His baseball career was capped in 1964 when he hit what was reported in the *Oredigger* as the longest homerun in Mines history. In the years since, other Mines' baseballers have laid claim to this honor, including Steve's good friend **Rob McKee PE '68**. Chesebro' laughs that he and McKee have a running disagreement over whose hit went farther, but he makes sure to add, "Rob may claim to have hit a longer ball, but at least mine was in print. I've got a copy of the *Oredigger* that talks about my hit being the longest." Yet, since the *Oredigger* article to which Chesebro' refers was published several years prior to McKee's hit, the friendly debate shows no sign of ending.

After graduating in 1964 with the degree of petroleum engineer, Chesebro' began a distinguished career as a business leader in the petroleum industry. He served 32 years with Tenneco Energy, retiring as chairman and CEO, and subsequently held the position of president and CEO of PennzEnergy and is currently chairman of Harvest Natural Resources. Chesebro' was awarded Mines' Distinguished Achievement Medal in 1991 and received his honorary doctorate from the School in 1998. He is co-chair of *Transforming Resources: The Campaign for Mines*.

The Chesebro' family has maintained a longstanding relationship

with Mines. Steve and Dollie are major benefactors of the School and members of the Mines Century Society at the Gold Level. Both their son, Scott B. Chesebro' PE '92, and daughter in-law, Michelle G. (Cunning) Chesebro' PE '94, are graduates of Mines. However, the Chesebro's are not 100 percent Miners, as daughter Stephanie and her husband Scott Nannen are Texas Christian University graduates. That brings out friendly competition from time to time. Dollie and Steve are blessed with five grandchildren under



*Mines* magazine recently had a wide-ranging conversation with Steve Chesebro'.

# What are some of the needs of the petroleum industry that can be addressed in part at the university level?

Through the cycles of the energy business, with rising and declining prices, and the consolidation of companies, there is an impending crisis for lack of manpower – lack of talented, educated people entering the petroleum industry. There are not enough people entering at the introductory level from universities to fill the need for the future. And, the management pool of the industry is rapidly maturing. Who's going to find the oil? Who's going to process it? Who's going to transport it? Universities can play a role in addressing this crisis by providing strong individuals with a good background – well educated and with an exposure to the industry who can step in quickly and move through different levels into management.

I expect Colorado School of Mines will more than fulfill its obligations in doing this. Mines has particularly been consistent in providing entry-level and graduate-level students to the industry, even in the down cycles. Many other schools during the down cycles produced few if any graduates. Mines has put out a steady stream of well qualified, sought-after individuals.

# What traits would you like to see in the person who fills the chair?

The energy business today is global. What you do in Colorado, in Texas, in Azerbaijan, or in China, affects the whole world. So we need to provide a better global scope to not only the industry but to entry-level people coming from universities. This chair should be able to impart that knowledge to students and, therefore, in turn help the industry.

Clearly they need to be a role model. The person has to be well rounded. They have to have the experience and knowledge, and the means of translating and transmitting their knowledge to students. I want students to know that if they work hard they will gain the knowledge and experience that will help them succeed in life.

The chair needs to have high integrity. The ethics of this person need to be impeccable. As you know, throughout industry – and it's not just the energy industry – ethics is a problem. We need to drill that into students. This person has to exude integrity.

Clearly the person should know industry one way or another, either through prolonged contact or having worked in industry. The person's knowledge of and awareness of relationships in the industry should help the School continue to build effective research programs and attract industry individuals into the graduate program and other outstanding professors to the department.

#### What do you hope to accomplish through creating this chair?

With this chair, we want to provide the impetus to take an outstanding department to the next level. We want to continue to build upon the strong foundation that's there and has been there a long time. I've been involved with the Petroleum Engineering Department for 20 years as a member of its advisory committee. I have seen it grow and mature throughout this period. The Petroleum Engineering Department in my mind, and I think this can be documented, is by far the best in the United States and in the world. People around the world are coming to us to set up their schools. So the department is in good shape. Let's make it even better. Just because we may be the best doesn't mean that we can stop now.

The Chesebro' Chair is unique in that it is the only distinguished chair at Mines created through a donation from an individual family. What was your motivation for making such a truly exceptional gift?

Dollie and I have been very fortunate. We have our health, our family, and career success. We feel it's important for us to contribute to society in the best way we can. We're both volunteers in children's and educational issues. Dollie was involved with

cancer patients. There is a responsibility of people that have benefited from certain things that somehow they pay them back. Mines was important to our family, is important to our family, and it has been very important to our family's history. In addition, as co-chair of the *Transforming Resources* fund-raising effort, I thought it was important to establish a leadership gift as an example for other graduates and friends of the School.

However, this motivation took some time to mature. The day I graduated Mines was the happiest of my life, to move on, to go to industry – that is, the happiest day of my life until the May following graduation when I married Dollie. But, after a while you learn to really understand what you went through at Mines, to understand what an advantage you have out in industry due to your background, due to the Mines experience. After, say, five years or so you start getting a little softer, maybe even start giving back to Mines, whether that be monetarily or through other means such as volunteering your time. Of course as more time goes by the more you realize how important Mines was and how much it did contribute to your capability, and if you have success, however you measure it, how important Mines was to that success.

# What characteristics did Mines help instill within you that contributed to your success?

The entire Mines experience was important: Problem solving; basic and specific knowledge; the work traits that clearly pay off

later in life; being able to work in a team environment, not just in athletics but also in academics. Mainly, Mines forced me to learn how to figure things out.

They don't make it easy for you as you well know. We had one lab, fluid mechanics, which was on Saturdays. When we played away-football games they didn't allow you to make it up. So you try to make it up on Sunday, but the building was always locked on Sunday. They gave you one choice: either do your lab work on time or play football and fail the course. Of course, at least in my case, if you fail you lose your scholarship and go home. The second time we played a game out of town we came back and sure enough the building was locked.



Chesebro's experience quarterbacking the Orediggers taught him how to get things done.

So what are you supposed to do? We found a window that somehow opened after a little physical persuasion. We did our individual assignments and turned them in on Tuesday. The professor couldn't believe we'd done it. The very next weekend was another away-game. When we went back on Sunday to try to get in, the window was purposely left open, as it was for the rest of our away games. You figure out how to get things done.



# Plan Reveals Campus of Tomorrow

President John Trefny and the Board of Trustees have set an ambitious course for CSM in the next 10 years. As highlighted in the last issue of *Mines*, the goals and objectives are to expand the School's reach and impact and to secure a position as a world-class institution dedicated to making a difference in the lives of its students and in the future of all. The Mines' Facilities Master Plan, designed by campus architect Paul M. Leef, AIA, AUA and planning consultant Joe Bilotta, AIA, of JBA Inc., is the framework that will guide the physical development of campus as the strategic plan is implemented.

On the Mines campus of the future, students will zip between classes along bike paths without competing with cars. Those who drive to campus will leave their vehicles in parking garages at the perimeter and walk to class on pathways alongside patios and planned open space. Students housed across Sixth Avenue will be able to stroll to campus above the traffic on a pedestrian bridge. As the campus expands, it will also improve and become pedestrian-oriented. Open spaces will be created and the beautiful mountain vistas will be preserved. The future campus will also be more distinct from the city of Golden. Stronger visual identifiers at campus entries and along campus edges are envisioned so that visitors will know when they've arrived at Mines.

Mines is expected to grow by enrolling more undergraduates, increasing the number of thesis-based graduate students, and adding more non-thesis and professional programs. Accommodating this growth will require new buildings. Historic Guggenheim, Engineering, Berthoud and Stratton Halls will be preserved and maintained, but new halls, laboratories and housing with the latest in technological innovations will be added. In keeping with Mines' role as a steward of the Earth, the facilities plan improves water conservation and increases landscaping with native plants.

The architectural drawing on these pages provides a framework for growth and expansion, but may be adapted and changed over time. Solutions to actual problems that arise will need to be developed on a project-specific basis within the general goals and guidelines established by these plans. The real value of this master plan is that it provides overall direction, a roadmap for future choices and the efficient allocation of resources to get there.



Back in seventh grade, Dave Zanetell BSc Eng '87 was already imagining the perfect career: He wanted to be a civil engineer who designed and built dams. As it turns out, he was just about right.

"That almost exactly describes my life," marvels Zanetell, 40. The only difference is that he's not designing dams; the Federal Highway Administration employee is supervising the construction of the \$234 million Hoover Dam bypass.

The project, which began in 1999, will create a four-lane highway to replace the congested two-lane road that has spanned Hoover Dam since its construction in 1935. The star of the new 3.5-mile route is a 2,000-foot bridge that will gracefully traverse the Colorado River just 1,500 feet from the awesome landmark.

The bypass will offer quicker, less dangerous passage through the Southwest, relieving the persistent bottleneck on U.S. 93 between Arizona and Nevada. When completed in 2008, it will drastically reduce the risk of accidents and potential threats of terrorist attack. The old route will remain open to the 2.5 million tourists who visit the dam each year.

Zanetell credits his experience as an Oredigger linebacker with cultivating the team spirit he fosters to lead a cadre of project managers, who in turn oversee nearly 400 engineering and construction specialists.

"What I took from my undergraduate experience was that ability to stick with something, to look to others and expect them to carry the members to a higher standard," says Zanetell, who played football from 1982 to 1987. "The bottom line is that to compete well at any level takes a huge amount of commitment and personal sacrifice. It creates a 'we' type spirit."

That devotion is so strong it practically guarantees that at least two dozen of Zanetell's former teammates will gather for weddings and other social events. On the bypass project, team spirit manifests itself in the intense collaboration of state and federal officials and teams of engineers and contractors. All are collaborating to complete what will be the largest concrete bridge arch in the western hemisphere and a crucial route through the Southwest.

"You're attracted to something many people say can't be done, a challenge technically, a challenge professionally, a challenge personally," Zanetell says. "To make something like this succeed, it takes a balanced level of professional commitment, but I believe it takes a personal level, too. On the greatest teams, every individual takes personal accountability for the success of the team."

Zanetell joined the FHA after earning his engineering degree. He supervised highway construction in western states for six years and then attended the University of Colorado, where he received a master's degree in civil engineering.

Back on the job, Zanetell led the reconstruction of the flooded main entrance to Yosemite National Park and picked up a few more nicks and scrapes on his already battered white hardhat.

Being tapped to lead the Hoover Dam bypass project was akin to being chosen captain of the football team. Like the Orediggers, this diverse group of experts has become a cohesive team with one goal: to complete a vital and majestic project safely, on time and on budget.

And like his former teammates, Zanetell says, "we will all be bonded for the rest of our lives."

June D. Bell is a San Francisco-based freelance writer. junebell@aol.com



# Bottom's Up For the Rain Forest!

While vacationing in Indonesian Borneo, Brenda Eckles BSc Geop '94 inadvertently photographed a cover girl who is now raising money to save the rainforests. Tutut, a 30something-year-old orangutan, is the face of Orangutan Rainforest Chardonnay and Eckles is the one who put her there.

"In July of 2002, I went to Indonesian Borneo for a 10-day

trip to study orangutans with the Orangutan Foundation at Camp Leakey in Tanjung Puting National Park," says Eckles. "While there, in addition to having an amazing experience, I took loads of photos and a bit of video. Later that year I entered a couple of the orangutan photos into an employee photo competition that BP hosts each year." Eckles is an oil transformation coordinator for BP in London.

One of her photos, titled Intelligence, won the incredible, says Eckles. "It really color-print category and was published in a BP made me wonder who was company magazine. The following year, Robert studying who." "Bertie" Eden, who runs an organic vineyard in the Languedoc region of southern France, came across the photo in the BP magazine while searching for photovoltaic panels to power his cellars. "Bertie contacted me after realizing this photo would be just right for a range of wines

he had launched to raise funds for the world's rainforests," Eckles said. Tutut's close-up now appears on the front label of the wine bottle while another of Eckle's photos—Tutut and a son—appears on the back label.

> According to Eckles, when Tutut was young, she was torn from the arms of her mother after poachers killed her. Tutut became one of many orphans raised at Camp Leakey. Later, she was re-released into the wild and now lives free, roaming the forests of Tanjung Puting. Tutut has three sons: Tom (now about 20 years old), Terry (about 10), and Thomas (about 4). She is also the adopted mother of orphan

Nancy, whom she took in and raised as her own.

Orangutan Rainforest Chardonnay was released at Oddbins, a United Kingdombased chain of wine shops, in March 2004. The oaked chardonnay costs

The intelligence in Tutut's eyes is approximately \$15 per bottle, with about 90 cents from each bottle sold going to the Rainforest

Foundation. Eckles donated her photos

free of charge. The Rainforest wines raised more than \$30,000 in their first year and are expected to raise even more this year.





Hardhats, flannel shirts and jeans symbolize their unique dedication to Oredigger tradition. The Mines marching band does everything a little differently, and that's just the way they like it. No tassels and stiff uniforms, the drum major leading the way with a fancy plumbing plunger.

Almost every band member is on some sort of scholarship. One trombone player goes to school part time and works full time. The members are a talented, committed group, but they don't take themselves too seriously. At the annual homecoming parade, the band is the leading and ending act. After marching four blocks down Washington Avenue, the band members take an abrupt left turn on 12th Street and come right back up Arapahoe Street to the parade's starting point. Some years there aren't enough floats to give the band time to walk leisurely back. Then the marchers turn into sprinters, racing uphill, instruments in hand, and begin the parade route again - this time a little out of breath.

Members of the Mines band were among the top performers from their high schools. Junior French horn player from Longmont High School Andrew Cavender chose Mines over New Mexico Tech because Mines has a band - New Mexico Tech does not. "It's a good release. I would recommend it to anyone who played in a high school band because it's a good way to let off steam," said

The trombone section of the band has a t-shirt designed exclusively for its section each year. Stacy Warrick graduated from Mines in 2001, but is back in school part time. She currently leads the trombone section and has organized its t-shirt efforts. Warrick explained that under the direction of former band director Ross McClure, the trombone section wore its t-shirts for the second march through the Homecoming parade. "The band also used to wear silly hats when we marched at the end of the parade. That was a fun tradition," added Warrick.

Under the direction of current band director Bob Klimek, the band performed in October on the KUSA TV-Channel 9 morning show "Colorado and Company." The show's hosts interviewed band members and praised their commitment to both music and rigorous academics. Mines quarterback Chad Friehauf was also there to talk about the Orediggers' magical football season.

# Band on the Run...

#### By Jil Erganbright and Marsha Konegni

In November the band played for the taping of the ABC television show "Extreme Makeover: Home Edition." The show is scheduled to air in February. Then once again in December the band performed for KUSA TV-Channel 9 to help promote the city of Golden's holiday festivities. When the performance ended, half the band left to go directly to a calculus exam. That is the unique dedication of the Oredigger band.



ABC television's "Extreme Makeover: Home Edition" featured the Miner band on a two-hour special in February.



A KUSA-TV, channel 9 reporter interviewed the band's drum major.





# Marching to a Different Plunger





### **Grandey Endowment to Strengthen** Mines Energy-Focused Curriculum

When planning his Transforming Resources campaign gift, Gerald Grandey '68 contemplated how he could best help Mines' curriculum stay on the leading edge of resource and energy work.

Grandey realized that emergent issues in these fields would require the next generation of resources related engineers to adopt a broader global perspective than their predecessors. Mines graduates entering the energy workforce in the coming decades will need to address concerns such as global population growth and the accompanying increase in worldwide energy demands. They will be faced with a heightened focus on socially, environmentally and economically responsible energy production.



Tina and Gerald Grandey

Consequently, Grandey, president,

CEO, and director of Cameco Corporation, and his wife Tina, an English literature master's degree candidate, directed the bulk of their Transforming Resources gift and pledge of \$87,000 to establish the Gerald and Tina Grandey Curriculum Mini-Grant Endowment Fund. Mini-grants awarded through the fund will support Mines' efforts to enhance curriculum and advance the School's educational programs. Awards will be granted to curriculum redesign projects that promote student understanding of the full lifecycle costs and environmental impacts of electricity generation by different sources such as nuclear, hydro, coal or wind.

According to Grandey, "The pursuit of the benefits of nuclear technology has pioneered many of the principles of sustainable development that now guide the development of natural resource

projects everywhere. Any engineer aspiring to improve mankind's quality of life will need to follow and promote these principles."

> "My hope," said Grandey, "is that this mini-grant will whet the appetite of those willing to think strategically."

> The Grandeys chose to fund two additional Mines program areas with their Transforming Resources contribution. Long-time backers of the McBride Honors Program, the Grandeys allocated a portion of their pledge to the Gerald W. Grandey **Endowment for the McBride Honors** Program, which they established in 1998. They designated the remainder of their gift to the Mines Fund.

The Grandey's donation is the second recent endowed gift made in support of curriculum redesign. To kick off the public phase of the Transforming Resources campaign, Mines President John Trefny and his wife Sharon made a leadership gift to support curriculum and program development

"Engineering education is the foundation upon which Mines was built," President Trefny said. "In keeping with this tradition, the Grandey's gift will lead directly to improvements in teaching and learning, and thus strengthen the educational experience for future generations of Mines students."

### **Century Society New Inductees**

The Mines Century Society honors those individuals who have distinguished themselves through a lifetime of extraordinary philanthropic support for the School. Alumni and friends whose cumulative gifts to the School total \$100.000 are recognized through society membership and their names permanently displayed in the Ben H. Parker Student Center. This year, twelve additional nameplates were added to the Donor Wall and six previous members of the Century Society raised their lifetime giving to a new level.

#### **Gold Level**

\$1.000.000 to \$2.999.999 Bruce E. Grewcock '76\* L. F. Ivanhoe\* John P. '52 and Erika H. Lockridge\* Bruce J. Oreck\* David Oreck\*

\$500,000 to \$999,999 R. Charles '36 and Jeanne S. Earlougher\* James L. '59 and Arlene H. Payne\* Thomas W. '53 and Mary M. Rollins\* J. Don Thorson '55\*

#### **Copper Level**

\$100,000 to \$499,999 George S. and Mariorie Ansell\* Alfred W. '33 and Edna E. Edye\* William H. '47 and Doris R. Erickson\* J. William II '70 '72 and Carolyn J. Fishback\* Hilia K. Herfurth\* Patrick M. '68 and Sharon L. James\* Joe S. '42 and Mary Keating\* Charles L. Pillar '35 \* Herbert L. '39 and Doris S. Young\*

**★**Moved from Silver Level

# Mines Acknowledges Individual, Corporate and Foundation Donations

**Colorado School of Mines received gifts** of \$25,000 or more from the following individuals between July 1, 2004 and **December 31, 2004.** 

Phil A. Bowman '67 established a deferred payment gift annuity with a gift of securities valued at \$101,376.

Steve '64 and Dollie Chesebro' made pledge payments of \$403,281 toward their \$2.5 million *Transforming Resources* commitment to establish the Chesebro' Distinguished Chair in Petroleum Engineering (see related article, page 22).

Harry M. Conger III '55, a charter member of the President's Council, made a Guggenheim-level contribution of \$25,000 to the Mines Fund.

Marshall '67 and Jane Crouch made a payment of \$26,000 on their Transforming Resources pledge of \$100,000. Their gift supports the Mines Fund, Arthur Lakes Library and provides discretionary funding for three professors in geology and geophysics.

Hugh '49 and Ann Evans contributed \$101,809 in appreciated securities to their charitable remainder trust. The gift is a payment on their pledge to the Transforming Resources campaign.

Charlie Fitch '49 established a charitable gift annuity with a gift of \$300,000, the remainder of which will be used to purchase educational equipment for use by Mines students. In addition, Fitch donated \$40,000 to the Chemistry Department to purchase lab equipment.

Nor '47 and Helen Hannon made a \$35,595 Transforming Resources campaign pledge payment. Their total \$200,000 pledge was directed to the naming of a practice court and the men's basketball office in the planned Recreation and Wellness Center.

Mines Century Society member **S. Bruce Heister '60** renewed his membership in the Guggenheim Society with a contribution of \$25,000 to the McBride Honors Program.

Ralph L. Hennebach '41, a charter member of both the President's Council and the Guggenheim Society, continued his support of the Hennebach Visiting Professorship with a gift of \$47,939.

Renewing his membership in the Guggenheim Society for 2004-2005, Ed Hodder '56 contributed \$25,000 to the Edgar Experimental Mine.

**Bob Irelan '68** renewed his membership in the Guggenheim Society by making a campaign pledge payment of \$25,000. This completed his Transforming Resources campaign pledge one year early.

Al Ireson '48 contributed \$40,000 and a matching gift of \$5,500. He directed \$5,000 to

the Mines Fund and the remainder to the Ireson Family Scholarship Fund.

With a donation of \$53,527, Joe '42 and Mary Keating established their second charitable gift annuity.

President's Council charter member Francis J. Labriola '52 generously contributed \$25,000 to the Mines Fund.

Phil '49 and Jackie Lawrence donated appreciated securities worth \$26,755 to the Lawrence Endowment, which is unrestricted.

In continuing support of Lockridge Scholars, John '52 and Erika Lockridge made a \$32,500 donation to supplement the support provided through their endowed scholarship.

Carolyn V. Mann contributed \$50,000 in continuing support of the John and Carolyn Mann Graduate Fellowship in Geology Fund.

Mines received an unrestricted distribution of \$600.000 from the estate of **Irene V. McKinney**. a long-time friend of the School.

Charlie McNeil '71 made a Transforming Resources campaign pledge payment of \$25,000. His \$100,000 campaign pledge names a room in the planned Recreation and Wellness Center. McNeil also made a \$1,000 gift to the Mines Fund.

Former CSM Board of Trustees President Steve Mooney '56 made a campaign payment of \$25,000 to the Mines Fund toward his \$100,000 Transforming Resources pledge.

An initial distribution of \$25,000 was received from the estate of **Lester Roberts** for endowed scholarships. Roberts attended Mines in 1924-1926 before working for the Ethyl Corporation and teaching at Ohio State.

To enhance the Shultz Athletic Scholarship, Chuck Shultz '61 donated \$47,500 in appreciated securities. He made an additional gift of \$1,000 to the Mines Fund.

**John U.** and **Sharon Trefny** made a payment of \$25,000 toward their Transforming Resources campaign pledge. President and Mrs. Trefny's gift will support the John U. and Sharon L. Trefny Endowment for Curriculum Advancement.

A beguest of \$25,000 was received from the estate of **Howard B. Waltz**. a retired University of Colorado music professor. The gift was directed to the Emil and Adolph Pfeil Library Endowment.

George F. Wood '65 joined the Guggenheim Society with a contribution of \$25,000 to the Mines Fund, and challenged his classmates to match his gift during their 40th reunion.

Friend of the School Martin Zinn made gifts and commitments totaling \$250,000 to support the Geology Museum and the completion of the Betty H. Llewellyn Special Exhibits Room.

CSM received gifts of \$25,000 or more from the following corporations and foundations between July 1, 2004 and December 31, 2004.

The ARCS (Achievement Rewards for **College Scientists) Foundation** contributed \$49,000 toward scholarships for nine students.

The Baker Hughes Foundation contributed \$50,000 for scholarships.

The Burlington Resources Foundation contributed \$25,000 to support the Petroleum Engineering Department.

ChevronTexaco contributed \$121,200 to benefit several academic departments, student groups, scholarships, the WISEM (Women in Science, Engineering, and Mathematics) program and the Minority Engineering Program.

The Adolph Coors Foundation made gifts totaling \$251,830 in support of the William K. Coors Distinguished Chair in Chemical Engineering and the Herman F. Coors Professorial Chair.

The Viola Vestal Coulter Foundation contributed \$35,000 to support the Coulter Chair for Mineral Economics.

**GE Global Research** contributed \$25,000 to support the activities of Dr. Brajendra Mishra in the area of nontraditional reduction of reactive metals.

The William and Flora Hewlett Foundation contributed \$290,000 toward their \$1,167,000 grant for humanitarian engineering program development.

**HP** awarded Mines an HP Technology for Teaching cash and product package grant valued at \$69,613.

**Infiltrator Systems** contributed gifts totaling \$109,000 to support Dr. Robert L. Siegrist's research and educational activities in the area of on-site and alternative wastewater technologies.

The **Li Foundation** contributed \$42,000 for the Li Foundation Fellowships.

The Marathon Oil Company **Foundation** contributed gifts totaling \$115,000 toward the Marathon Center of Excellence for Reservoir Studies and to support the departments of Geology and Geological Engineering, Geophysics, and Petroleum Engineering.

The **Phelps Dodge Foundation** supported undergraduate scholarships with a gift of \$30,000.

**Shell Oil Company** contributed \$120,500 for departmental support, the Career Center, the Minority Engineering Program's summer programs and the McBride Honors Program.

The **Torrey Foundation** contributed \$300,000 to support research conducted by Dr. Jeff Squier in the Department of Physics.

New Member

Anita Pariseau is the new Office of Alumni Relations director and executive director of CSMAA. She began Nov. 15. We asked her about herself and what her goals are for the future.

#### What are your qualifications?

I believe I was hired because of a combination of my professional alumni relations experience coupled with my enthusiasm and appreciation for working with an alumni constituency. For the last 15 years, I have worked with alumni at Wellesley College and Harvard University helping to build affiliations, networks, camaraderie and loyalty for those institutions. That experience made me a strong believer in the power of connection, where people come together for a multitude of reasons and become better educated about the mission of the institution in return. When alumni are connected to and supportive of their institution. there are no limits on ideas that benefit both the school and its alumni. Of course, alumni always have far more ideas than could be implemented—mainly for practical reasons—but that is the challenging part of the job: evaluating proposed ideas against the broad mission of the School.

#### What is the Alumni Association's role in the future of Mines?

The basic premise of a sound alumni relations program is to keep alumni connected to the School. But I believe it goes far beyond that. The Alumni Association should focus on programming that will help further the goals of CSM's strategic plan. Our publications should aim to keep alumni informed about changes and growth on campus; our programming mix might include oncampus lectures or panels of broad, topical interest; and those intellectual opportunities should be road-tested so that those farther afield can participate. A successful alumni relations program is one that draws people back to campus.

## How does the joint operating agreement between the School and the Association affect the way the Association is run?

The agreement opens a new spirit of cooperation between the School and the Association's board of directors. I believe we are ready to move alumni relations forward and to a higher, professional level. With effective leadership, the board should not have to worry about the day-to-day operation of the office. I intend to provide that leadership while the board continues to generate ideas, advice and strategy support. I also think it's important for everyone to understand CSM's mission and to use that as the framework to build on the history, traditions, pride and loyalty, which are evident among the school's alumni-

#### What are your goals for the Association?

My goals include increasing the paying membership base of alumni to help us sustain the programs, events and services we already provide, and also to increase our effectiveness. I want to

find ways to engage people and get them excited about CSM because there is much to be excited about. Those engagements should be intellectual as well as social. I want to elevate the visibility of the Office of Alumni Relations on campus and off. I

want to build stronger partnerships among departments we've worked with as well as those we've worked with very little or not at all to date. Exciting things happen when people work together for the greater good and the greater good is CSM. Go Orediggers!

#### How will you attain those qoals?

Evaluation, partnerships, bridge-building, buy-in, consensus, implementation, more evaluation, staying true to the mission and more paying memberships. For a taxdeductible \$55 per year, an alumnus/na can help chart the course of more meaningful

alumni experiences. If you have not yet renewed your membership, you can go on line www.csmaa.mines.edu/alumni and do so. I am extremely excited about the possibilities, but we need the support of our alumni to realize our goals.



Sam Hewitt '95

Scott N. Hodgson '03

Kathleen A. Altman '80 Aaron J. Atherton '99 Brianna G. Atherton '01 Timothy A. Barbari '79 Sheryl A. Barnett '84 Shikha Batra '00 Christine M. Beatty '95 Chad M. Bieber '99 Meredith A. Bond '88 Derek T. Bruzgo '95 Samuel Chang '88 Robert E. Childress '70 Scott R. Clark '85 Alan R. Clemens '80 Chadwin F. Cox '93 Mark L. Davison '88 Brian E. Donovan '85 Jennifer L. Ehler '01 Geno L. Fallico '00 Donald F. Fecko II '02 Sandy J. Fecko '02 Amy N. Flammang '95 Holly L. Fliniau '84 Barbara Ganong '82 M. Scott Gillis '79 Ramona M. Graves '82 Pabloe Hadzeriga '82 Dustin J. Hansen '98 Devon A. Harman '01 Adam T. Harvey '86

Yen Jung Huang '02 Michael R. Hughes '72 Brett D. Jackson '97 Leonard D. Jones '71 Robert Charles Jones '03 R. Dennis Karsten '70 Joe H. Kelloff '94 Michael W. Longshaw '89 David C. Morse '92 Thomas E. Mullins '91 John S. Olsson '88 Daniel Pavone '48 Raulie M. Pederson '88 Philip Edward Quinnett '98 David S. Roby '91 Robert M. Schulz '98 Doris A. and Fred R. Schwartzberg '53 Vance L. Scott '87 Patrick T. Sewell '95 Richard P. Spainhour'01 Lee A. Turner '70 Edward P. Trousil '82 William A. Vandermeer '03 Charles J. Vasilius '81 Harry J. Wagner Jr. '97 Thomas L. Watson '75 Janet A. Wille '92

# <u>Staying</u> connected



#### **CSM Alumni Association**

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#### Central

#### Kansas

Fourteen former Mines football players gathered in Topeka, Kan. to watch the season opener with Washburn University, which Mines won by a score of 34-27. **Craig Schurig '87**, the head coach of the Washburn team. was a teammate of the group and hosted them at a pre-game reception. Front row. from left: Dan Donoho '87, Greg Tacha,



Jamie Price '90, Jeff Nitsch. Back row: Dave Beck '88, John Rheinheimer '89, Dave Zanetell '87, Mike Smith '88, Jerry Konst '89, Marv Kay '63, Mike Montano '88, Craig Schurig '87, Darren Warren '87, Roger Jaramillo '87.

#### Oklahoma

Ray Priestley '79 hosted a party for prospective students in Tulsa Sept. 26.







#### **Gulf Coast**

### Texas

#### Dallas

The Dallas section hosted prospective students and their parents at a picnic Sept. 19. From left, Chip Hodge '87 and his son, and Brian Vialpando '95.



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# Staying connected

#### Houston ↓ →

The Houston section met for happy hour in September, and in October attended an Astro vs. Rockies baseball game where they watched the Astros clinch a National League playoff spot.





#### **Southwest**

#### Nevada

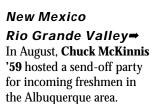
#### Las Vegas ↓

A group of 94 alumni, students, faculty and friends got together for happy hour at Monte Carlo Casino during the MINExpo in Las Vegas in late September.

























#### East

#### Tennessee Valley 1

Penny J Pettigrew '92, Amy Walker '02, and Debbie Edwards '98 attended the first meeting of the Tennessee Valley (Northern Alabama/Southern Tennessee) Alumni Chapter over lunch at McAllister's Deli. "We would like to encourage more alumni in the area to participate," says Pettigrew. Contact her at poohj80@comcast.net for more information.

#### Boston 1

Impromptu reunion in Beantown: The Potential Gas Committee held its fall 2004 meeting at the Jurys Hotel in Boston. It reunited three engineers who entered Mines in 1972 and 1973. Pictured, left to right, are **Brady McConaty** '78, **Mike Decker** '77 and



y '78, Mike Decker '77 and Steve Hamburg '77. Also in attendance were CSM Professor John B. Curtis and the Geology Department's Linda D'Epagnier, program assistant.



# West California

#### San Diego

**Samantha Przywitowski '94** organized an alumni picnic at Balboa Park on a beautiful, sunny day in October.

#### **Metro Denver**

#### Homecoming **↓** →

The weather was perfect for Homecoming and the stadium was full as many alumni returned to campus to watch the Orediggers win their 11th game in a row. This year's Homecoming theme was "Super Heroes."













#### Legacy Grants 1

Twelve Mines students were given legacy grants at the last CSMAA Board of Director's meeting. Legacy grants are given to children or grandchildren of alumni who have been members of CSMAA.





#### Adams State Game **↓**

A busload of students and alumni drove to Alamosa, Colo., to watch the Orediggers defeat Adams State and clinch the RMAC Division II title.











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COLORADO SCHOOL OF MINES



TOD F. BARTON MET E '58 died peacefully at home July 25 after a long battle with melanoma. He was 67. After graduation from Mines. Barton worked for Bendix in Los Angeles and Aerojet in Sacramento. In 1972, he moved to Little River where he became a real estate broker in Mendocino, Calif. He was an elder in the Mendocino Presbyterian Church and a member of the Mendocino Rotary Club. In 1981 he married Jackie Spelman. Barton retired early to enjoy painting, traveling and skiing trips with his wife. In 1987, they moved to Santa Rosa, Calif., where Barton raised. trained and showed Tennessee Walking Horses. The Bartons moved to Herald. Calif., in 1998 to create their dream horse ranch. Barton was inspirational to the many lives he touched, especially the members of the Sutter Cancer Group. He loved gardening, planting trees wherever he lived and watching nature's animals. His family and friends will remember him for his keen wit, infectious laugh, sense of fairness and dedication to his many horses and special cats. His widow, a sister and nieces and nephews survive him.

KEVIN E. DOOLEY PE '61 died Aug. 3 in Tucson, Ariz., with his family by his side after a courageous battle with melanoma. He was 67. After graduation from Mines, Dooley married Jayne Mohme in Burlington, Iowa. He went to work for Texaco Inc. in Denver as a lubricant engineer. Texaco transferred him to Casper, Wyo., where, after eight years, he purchased Plains Oil in Laramie, Wyo., and went into business for himself as Dooley Oil. In 1973 he built and began operating

Outrider Truck Stop. He owned and operated the truck stop for 18 years in addition to running Dooley Oil. Dooley developed a petroleum marketing business and opened plants in Casper and Cheyenne. He also built several C Stores in Casper. In 1989 he bought a bulk oil business in Fort Collins, Colo. Dooley was active in local organizations and was a board member of First National Bank of Wyoming and a member of St. Laurence O'Toole Catholic Church. He was active in the University of Wyoming Cowboy Joe Club, UW Art Museum and Ivinson Memorial Hospital Foundation Golden Key. He was a longtime supporter of the 4-H livestock sale and Laramie Youth baseball and youth activities, as well as donating to CSM. Dooley's hobbies included snow skiing, hunting, fly fishing, golf, traveling and spending time outdoors. His sense of humor and love of life will be missed by his family and friends. He is survived by his widow, a daughter, a son and four grandchildren.

KIRK C. FORCADE SR. GEOL E'36 of Wheat Ridge, Colo., died Jan. 15, 2003 after a 10vear battle with many illnesses. He was 89. Forcade was a geologist and



petroleum engineer involved in the oil and gas industry. After graduating, he worked for several oil companies. This all changed when the country went to war. Forcade was drafted by the United States government to report to a Mr. Harrison in Texas with other CSM graduates to design and build a butadiene plant. When the war ended, he returned to Colorado and accepted a position with Frontier Oil Company. Ten years later he joined Bill Cullen Geol E '36 in the search for oil and gas deposits. Forcade enjoyed fishing, boating, skiing, tennis and golf. He loved the outdoors, but most of all loved his family, friends and the Colorado School of Mines. He is survived by his wife Terri, son Kirk BSc Pet '82, daughter Lori and three grandchildren.

ROBERT D. GRIFFEY MET E '39 died Sept. 20 at age 94 at home in Potosi, Mo. He was born in Denver and grew up in Englewood, graduating from high school in 1928. Griffey worked at the Denver Post and was able to enroll at Mines in 1930. After graduation, he worked for a fluorspar company in Colorado; VCA in Durango, Colo.; National Lead Company, Tahawus, N.Y.; Haile Gold Mines in South Carolina; American Zinc Company, Dumas, Texas: New York Rossario Honduras Mining Company in Honduras; and Midwest Mining Company in Potosi, Mo., which produced barite for pharmaceuticals, pigment and drilling mud. Midwest Mining Company was bought by the M.P.M. division of Pfizer Pharmaceutical Company. Griffey retired when Pfizer closed the barite operations. Pfizer then employed him on a contract basis to supervise the maintenance of tailing dams, security and sale of the properties. Griffey greatly enjoyed this retirement work as he loved to hike through the woods. He enjoyed listening to music, especially opera, and was a member of the St. Louis Opera Association. While retired, he translated a Mexican history book. Griffey is survived by his wife of 69 years, Jessie, two daughters, four grandchildren and two great-grandchildren.

#### REYNOLD A. GUSTAFSON MET E'47

died Aug. 12 at his daughter's home in Puvallup, Wash, He was 87. Gustafson was raised in Telluride, Colo., and served in the U.S. Navy during World War II. He worked at the start-up of Intalco in 1964 as a technical director



until his retirement in 1979. In retirement, he spent time at his ranch in Washington, wintering in Arizona and Nevada. He is survived by his widow, Elaine, a son, a daughter and three grandchildren.

Frederick E. Johnson Met E '54 died at home surrounded by his family after a courageous eight-month battle with cancer. Colo. He was 22. LaAsmar was born in After he retired from United Air Lines as a captain in 1992, he enjoyed gardening, traveling, boating and happy times with his graduation from Mines, he was employed family. His greatest love was reading about, looking at and flying airplanes. He also was a captain in the Navy, active and reserve, for more than 20 years. Johnson is survived by his wife of 58 years, Dorothy, a daughter, two sons and eight grandchildren. An infant son predeceased him.

#### GEORGE Y. "BUD" KING GEOL E'51 of



Greenwood Village, Colo., died Aug. 5 after a fall in his home. He was 76. "Mines lost a very supportive alumnus and the Class of 1951 a valuable member," said friend

Van Howbert Geol E '51. After serving in the U.S. Navy, King entered Mines where he became a member of Alpha Tau Omega, Theta Tau. Blue Kev. Press Club and "M" Club. He was a punter on the football team. King had a 35-year career as a geologist with Magnolia-Mobil with assignments in Oklahoma, Texas, New Jersey, Ohio, Pennsylvania, Canada and Colorado. A highlight was leading a geological field trip through the Arctic Islands. During his retirement, he enjoyed a 15-year volunteer career with Recording for winters in Mesa, Ariz., with snowbird the Blind and Dyslexic. He served six years on its board of directors and was chairman of the board from 1999-2001. King was honored as "special volunteer" in 1996. A joyful man, he loved to sing and was a member of the Cherry Creek Chorale. He was a tennis enthusiast who belonged to multiple senior teams. King was a treasure, ever the gentleman, tender and charitable. His beautiful smile and deep, resonant voice will be greatly missed by his family, friends and colleagues. King is survived by his wife of 54 years, Marnie, a daughter, a granddaughter, a sister and many nieces and nephews.

25 after an auto accident in Kremmling, Zanesville, Ohio, and graduated from Bishop Rosecrans High School there. After by the Phelps Dodge Corp. and Henderson Mine in Empire, Colo. He was a member of

MARK A. LAASMAR BSC MIN '04 died July

the Society for Mining, Metallurgy and Exploration and was an avid sportsman and outdoorsman. LaAsmar is survived by his parents, Ronald G. and Sandra K. Straker LaAsmar, a sister, three grandparents and several aunts and uncles.

#### WAYNE E. MAHAN PRE '47, MSc PRE '48

died July 3 in Billings, Mont. He was 81. Mahan's schooling at Mines was interrupted when he joined the Army during World War II.

After an honorable discharge, he finished his education. In 1945, he married Marie Kirk and had three children. In 1949, he moved his family to Laurel,

Mont.. where he was employed by Farmers Union Central Exchange. He retired from the Cenex Refinery in 1983. His wife, Marie, died in 1978. Mahan married Marilyn Anderson in 1990 and they were active in church and square dancing. Ill health forced him to retire from square dancing, but it was always in his heart. The Mahans spent friends and family of both. Mahan is survived by his widow, two daughters, a son, three grandchildren and three greatgrandchildren.

ROSCOE CHARLES "MAC" MCCUTCHAN GEOL E'38 died April 25 in Odessa, Texas, after a brief illness. He was 90. McCutchan was born in Oklahoma and attended a year each at Oklahoma State and Notre Dame before attending Mines. While at Mines, he was a member of Kappa Sigma and played football. He loved Colorado and vacationed there every chance he got. His greatest memories were of the friendships he made

at CSM. McCutchan married Mary Nelson of Denver in 1937 and after graduating, traveled through the oil fields moving his family 14 times before settling in Odessa. He lived there for 50 years working for Phillips Petroleum most

of that time. His wife, Mary, and his son, Mike, a 1961 CSM graduate, predeceased him. Always enamored with the music of the Big Bands of the '30s and '40s. McCutchan was instrumental in



forming the Odessa Jazz Party and being on the board of directors that went on to become known as the West Texas Jazz Society.

JAMES M. MURPHY JR. GEOP E '50 died May 6 of complications from pulmonary fibrosis. He was 78. Murphy served on the USS Hornet in the Navy during World War II. He also served in Korea in the Corps of Engineers. Murphy was a geophysicist with Phillips Petroleum Co. for more than 35 years. He was an active member of St.



John's Presbyterian Church where he was on the building and grounds-keeping committee, the men's spoken word choir and the men's Friday lunch group. He also participated in the

local CSMAA sections and the Houston chapter of Phillips Petroleum retirees. Murphy was very proud of his degree from Mines, according to his daughter, and often wore his Mines tie. He is survived by two daughters, a son and three grandchildren.

A. GEORGE "TONY" SETTER EM '32 died Oct. 10 in Grand Junction, Colo. He was 94, suffered no pain, and was interested in the world and in the price of gold and silver to the very end. Born and raised in Denver, Setter attended East Denver High School where he excelled in chemistry and worked after school in the assay laboratory

36 MINES WINTER 2005
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business of Charles O. Parker. In fall of 1927, he entered Mines and joined ATO

and the Army ROTC. After his sophomore year, he stayed out and got a job on the Moffat Tunnel Project, driving a Ford dump truck. Returning to school the next year, Setter managed the School's



assay lab, was manager of the football team and a member of Tau Beta. From graduation until WWII, Setter worked in the Frontenac, Newsboy, Vultura, Tommy Knocker, Carlisle, Ash Peak, St. John Caribou, Flint, Red Elephant and Specie Payment properties in Arizona, New Mexico and Colorado. He left files full of maps. During the war, Setter was stationed at the San Antonio Arsenal in Texas. After discharge he returned to Denver and worked for Vulcan Iron Works and then Western Machinery Company. In the early '50s he and his partner purchased the Colorado and Wyoming branches of Wemco and named it Western States Machinery, specializing in mining, construction and powerline equipment. He held several mining equipment patents. Setter was president of the Colorado Mining Association in 1967 and a director for several years thereafter. He and others organized the Mines Alumni Association in Grand Junction as well as the Western Slope chapter of AIME. He was a lifetime member of RM Coal Mining Institute. He



took great pleasure in his association with the School and with other alums. His wife, Kay, preceded him in death in 1998.

ROGER KING STEELE MET E'52 died peacefully in the presence of his family Aug. 11, from injuries sustained in an accidental fall. He was 73. Born in Massachusetts, Steele was a descendant of one of Hartford, Conn.'s founding families. He was awarded the Massachusetts Scholarship in 1948 to attend CSM. He then earned a master's degree from Renssalaer Polytechnic Institute and his Ph.D. from University of Connecticut, both in metallurgical engineering. Steele practiced his profession in government and industry, retiring as chief metallurgist for



the Association of American Railroads in 1994. After retirement. he continued to consult and was widely sought out. He volunteered at the **Connecticut Trolley** Museum and actively

pursued the restoration and preservation of his beloved trolleys. Steele dedicated his life to learning as much as possible about metallurgy, rail and streetcars. One of his greatest passions was sharing his knowledge with students, friends and colleagues. Although not a world traveler by nature, he responded to the call to write and lecture in the former Soviet Union. China, Brazil, Canada, Australia and throughout the United States. He will be remembered as a man whose outstanding accomplishments in his career were overshadowed only by the strength of his kindness, compassion and dedication to helping his daughters achieve their dreams. Steele is survived by his wife of 43 years, Marilyn, two daughters and many other relatives.

#### GUY H. TOWLE GEOP E '53, PHD GEOP

'78 died Feb. 26. During his career, he worked for Halliburton, Welex, PBT Inc., and was on the faculty at CSM in the geophysics department. After his retirement from CSM, he continued his association with the School by becoming



the coach and teacher for the judo club. Towle had four children, one of whom is a CSM graduate, Diana **Towle Cheatum BSc** Geol '82. Towle is survived by his wife of 56 years, Ann, and four children.

GARRY V. VEBER PHD CPR '72 died July 8 at his home in rural Iowa. He was 68. Veber, a native of Iowa, earned his undergraduate degree from Iowa State University before moving to Colorado where he earned a master's degree from Denver University, then his Ph.D. from Mines. He married Mary Alice Walker in 1959 and worked as a chemical engineer. Veber's hobbies were fishing, gardening, landscaping and spending time with his family. He was a member of the 1952 Newton High School Football State Championship Team and received Des Moines Register First Team All-State Honors. He was a loving and devoted husband, father, grandfather, son, brother and friend. He is survived by his widow, three sons and seven grandchildren.

### Also in Memoriam

WILLIAM D. BROWN MET E '52 RICHARD O. DIMIT PE '54 GREGORY S. DOLE BSC MATH & COMP SCI '03 ALFRED W. EDYE PRE '33 DAN H. GRISWOLD GEOL E '30 NORMAN E. MAXWELL JR., PE '41 SEPT. 23, 2001 M. EUGENE WARREN MET E '48 GEORGE T. McCall EM '50 **APRIL 9, 2004** 

2004 THOMAS B. REIFSNYDER EM '49 MAY 13, 2003 JUNE 12, 2004 PAUL G. SHARP EM '33 **JULY 2003** BERT J. SHELTON PE '44 APRIL 12, 2004 April 17, 2004 John M. Suttie EM '42 **SEPT. 18. 2003** Feb. 26, 2004 John B. Traylor EM '36 **AUGUST 2003** 1993 JAMES K. TRIMBLE MSC GEOL '60 Aug. 17, 2004 2004

#### 1947

Basil V. Savoy PE is retired in Coronado, Calif.

#### 1957

Frank W. Wolek Geol E is professor emeritus at Villanova University.

#### 1960

William N. Houston Geol E is a commercial salmon fisherman in Point Arena, Calif.

Richard J. Pitney EM is vice president of projects for InfraSource Underground Services Inc. in Pleasanton, Calif.

R. Glenn Vawter PE is an independent consultant in Glenwood Springs, Colo.

#### 1961

Miles L. Kara Sr. Geol E retired July 31 after serving on the the 9-11 Commission.

#### 1962

Leslie L. Ludlam PRE is pastor of Thornton United Methodist Church in Thornton, Colo.

#### 1965

Robert R. Houston Chem E is retired in Mobile, Ala.

Benjamin C. Pollard EM is retired in Olympia, Wash.

Robert B. Weatherwax III Met E is tribology manager for Federal Mogul in Ann Arbor, Mich.

#### 1966

Charles R. Arnett Met E owns Silver Lake Analytical Services in Durango, Colo.

Richard A. Maxwell Math E is a senior exploration geophysicist for ExxonMobil in Houston.

John R. Schmedeman Math E is president of JRS GeoServices Inc. in Mulberry, Fla.

#### 1967

Thomas J. Garner PE owns Anadarko Consultants in Yukon.

Garrett H. Nollen PE is vice

president for Quantum Corporation in Aurora, Colo.

Robert A. Snyder Geol E is senior vice president and marketing director for TransFund in Tulsa,

#### **Donald Steven Tipton PRE** is an operations engineer for Newfield Exploration Mid-Continent in Tulsa. Okla.

#### 1968

Kenneth N. Walker EM is a safety manager for Clark Construction in Carlin, Nev.

#### 1969

Morris A. Miceli Geol E is a geologist for Miceli Consulting in Edmond, Okla.

#### 1970

Anton W. Bosch EM is retired in Chevenne, Wvo.

Richard J. Kehmeier BSc Geol, **MSc Geol '73** is principal of Kehmeier Consulting in Woodbury,

#### 1972

Dirk A. Benham BSc Phy, MSc **Min '78** is a chiropractor at Benham Chiropractic in Creve Coeur, Mo.

#### 1973

David P. Conover BSc Phy is senior physicist for Agapito Associates in Golden, Colo.

#### 1974

Gary L. Bauer BSc Pet is manager of Egypt for Global Santa Fe in Cairo.

Aaron J. Davis BSc Geol, MSc **Geop '79** is a senior staff engineer for Lockheed Martin in Fort Worth. Texas.

Dean A. Henrickson BSc Geol is an engineering tech for Maxim Technologies Inc. in North Platte,

Michael D. Kyrias BSc CPR is an assurance and compliance manager for Oil Search Ltd. in Sydney, Australia.

Shane Mohammadi BSc CPR.

#### MSc CPR '75, PhD CPR '81 is

manager of development planning for ExxonMobil Qatar in Newport Coast, Calif.

#### 1975

Carl E. Cross BSc Met. MSc Met '79. PhD Met '86 is senior scientist for Federal Institute for Materials Research & Testing in Berlin, Germany.

#### 1977

Reginald L. Beasley BSc Geop is geoscience project manager for ExxonMobil Exploration in Houston.

Steven C. Fasold BSc CPR is a styrenics commercial manager for Chevron Phillips Chemical Co. in The Woodlands, Texas.

#### 1978

Jeffrey A. Brehm BSc Geol is an advanced senior geologist for Marathon Oil in Katy, Texas.

Timothy L. Stouffer BSc Pet is a reservoir engineer for Marathon Oil in Houston.

#### 1980

John Charles Barbour BSc Phy is deputy director for physics and chemistry at Sandia National Labratories in New Mexico.

Barbara F. Fullmer BSc Geol is senior counsel for ConocoPhillips in Anchorage, Alaska.

John H. Gould BSc Pet, MSc Min Ec '95 is vice president and engineering manager for Gel Technologies Corp. in Midland, Texas.

Roger A. Hooten BSc Geol is senior project manager for Reipan International in Stockton, Calif.

M. Lee Renegar BSc Min is senior underground construction engineer for Lachel Felice & Associates in Amargosa Valley, Nev.

Diane P. Shellenbaum BSc Geop is principal geophysicist for ASRC Energy Services in Anchorage, Alaska.

#### 1981

Nicholas W. Atencio BSc Pet is

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president of Enventure LLC in Cypress, Texas.

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#### 1982

Yuri Dershteller BSc CPR is lead project engineer for ExxonMobil in Miami Beach, Fla.

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Robert L. Stites BSc Geol, MSc Geol '86 is a project manager for the U.S. Environmental Protection Agency in Denver.

#### 1983

Leonardo M. Corneio MSc Met. PhD Met '89 works for Codelco

Neal P. Mares, Jr. BSc Pet is district engineer for Samson Resources in Tulsa, Okla.

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Dave A. Scheidegger BSc Geol is senior oil and gas analyst for University of Texas System in Austin.

#### 1984

Peter H. Carson BSc CPR is nondestructive assay team leader for University of California at Los Alamos National Laboratory.

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Jesse I. Shaw MSc Geop is a geophysical associate for ExxonMobil Exploration in Houston.

Frank E. Uhlarik BSc Geol 1984 is a senior project manager for MFG Inc. in Omaha. Neb.

#### 1985

R. Scott Baird MSc CPR is a project development manager for ExxonMobil Research & Engineering Co. in Fairfax. Va.

Erik E. Hansen BSc Geol is a risk engineer for Solen Versicherungen AG in Baar, Switzerland

E. David Seymour BSc Met is general superintendent for P.T. Freeport Indonesia.

George H. Wayne Jr. BSc Math, MSc Min Ec '92 is a consultant for El Paso Western Pipeline Group in Colorado Springs, Colo.

#### 1986

president in

Russell Bundschuh BSc Geop, **BSc Eng '87** has joined New York Life Insurance Company as first vice

Mendham, N.J. Lewis D. **Dennis BSc** Pet is manager of engineering

construction for Unocal Alaska in Anchorage

Ann K. Sieben BSc Geol is department head for CDM Consult AG in Alsbach-Haehnlein, Germany,

Franciscus B. Sinartio BSc Geop is a senior geophysicist for Petronas

Carigali Sdn. Bhd. in Kuala Lumpur, Malaysia.

Warren S. Snyder BSc Pet is a senior engineer for ERM-Southeast Inc. in Jacksonville, Fla.

Clark Vera BSc Geop is president and chief executive officer for UnitedQuotes Inc. in Golden. Colo.

David A. Williams BSc Eng is corporate planning manager for RasGas Co. Ltd. in Doha, Qatar.

#### 1987

Elizabeth Simone and William Stephen were born Nov. 7, 2003 to



Renata Jarzabek Bollich BSc CPR and her husband. Stephen.

Frederick H. Earnest BSc Min is president of Pacific Rim El Salvador.

Keith A. Laskowski MSc Geol is president of Gallant Minerals Services Limited in Lakewood, Colo.

Paul J. Taylor BSc Pet is lead reservoir engineer in Zakum Reservoir Development for BP in Abu Dhabi.

#### 1988

Vivek Chandra BSc Geop is business development officer for Dolphin Energy in the United Arab Emirates.

Nicolas Lacouture BSc Min is an associate for Natural Resource Partners LP in Houston.

Brian P. Shea BSc Eng is the northeast regional manager for Air2Data High Speed Wireless in North Kingstown, R.I.

#### 1990

Mark S. Denslow MSc Min Ec is vice president for The Pinnacle Group in Stamford, Conn.

Jeffrey L. Duvall BSc Min is chief mining engineer for Centerra Gold in Ulaanbaatar, Mongolia.

John H. Fronczak BSc Pet is regional engineer for Baker Hughes Centrilift in Midland, Texas.

John N. Haldiman BSc Eng is an energy manager for Plains All American Pipeline LP in Oklahoma

William R. Hanson BSc Pet, MSc Env Sc '94 is a business analyst for Anthem Blue Cross/Blue Shield in Denver

Julia B. Hoagland BSc Eng owns Magnolia Investments in New York

William W. Leslie PhD Geop is senior geophysicist for Ramtech Holdings Inc. in Plano, Texas. **Bjorn Ostebo MSc Pet** is a staff

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Company in Albany, Ga. Shelly Stanton BSc CPR



from Voronezh, Russia. He was born Sept. 7, 2003 and arrived in Colorado July 4.

#### 1991

Donald A. Cameron BSc CPR is a delivery leader for Dow Chemical in Freeport, Texas.

Ivan A. Cornejo Figueroa MSc Mat Sc, PhD Mat Sc '94 is glass research manager for Corning in Corning, N.Y.

William H. Fronczak BSc CPR. MSc Env Sc '95 is chief operating officer for Gareway American Resources LLC in Colorado and Arizona.

Esa I. Kivineva MSc Met is vice president, corporate ventures China, for Wartsila China Ltd. in Shanghai.

Dean W. Schott BSc Met is product business development manager for EMC/Documentum in Pleasanton, Calif.

John H. "Trey" White III BSc **Min** is chief project development engineer for Kinross Gold in Republic, Wash.

#### 1993

Kelly M. Brown BSc Pet is operations and engineering manager for Proton Energy in Houston.

Brett R. Hoopes BSc Eng is mechanical and electrical coordinator for J.E. Dunn Construction in Denver.

Michael J. Lopushansky BSc **Eng** is a capacity planner for Comcast in Greenwood Village, Colo.

Eric T. Lyons BSc Eng is senior controls engineer for Siemens Corp. in St. Louis. Mo.

James H. Spurlin PhD Geop is a consultant for Chokecherry Consulting in Golden, Colo.

#### 1994

Fredric D. Bailey MSc Met is engineering section manager for Texas Instruments in Dallas.

Daniel T. Bennett BSc Eng is a captain in the U.S. Army and an instructor at the U.S. Military Academy in West Point, N.Y.

Andrew S. Bragg BSc Eng is collection manager for the U.S. Army at Camp Smith, Hawaii.

Aaron C. Carnevale BSc Eng. BSc Pet is a senior project engineer for Bear Paw Energy in Denver.

Lyle P. Cunningham MSc CPR is a staff process engineer for Alcoa in Massena, N.Y. **Leonard F. Gurule BSc Eng** is an

electrical project manager for M-E Engineers Inc. in Wheat Ridge, Colo Eliphas A. Hawala BSc Min is general manager of NamGem in Windhoek, Namibia.

Svein Hellvik BSc Pet is senior directional drilling supervisor for Schlumberger Ltd. in Tanager, Norway.

Mark W. Krutyholowa MSc Mat **Sc** is principal new product development manager for Cordis Cardiology in Miami Lakes, Fla.

to the Mesa County, Colo. Commission in November.

Mark Moselev-Williams BSc **Min** is a project manager for CDE Chilean Mining Corp. in Santiago.

senior projects engineer for Kennecott Utah Copper Corp. in Bingham Canyon, Utah.

Samuel S. Roushar BSc Eng is a structural engineer for the Shaw Group in Centennial, Colo.



**Chem Eng '04** were married Aug. 7 in Evergreen, Colo.

Michael T. Dickinson BSc CPR is a completion engineer for Patina Oil & Gas Corp. in Platteville, Colo.

F. Scott Hoover BSc CPR is a senior process engineer for Intel Corporation in Rio Rancho, N.M.

Erik P. Jacobs BSc Eng is bid

division manager for American Demolition in Santa Ana, Calif. Gordon J. Knight BSc Eng is a civil engineer for Stantec Consulting

M. MacLean Price BSc Pet and Amber (Storch) Price BSc Geop '97 & M Eng Geop '99 announce the birth of Ashlyn Michelle, born March 4.

in Las Vegas.

Craig Meis BSc CPR was elected

Michael W. Patton BSc Min is a

Christopher J. White BSc Eng is upstream technology planning coordinator for ConocoPhillips in Houston

#### 1995

Darek T. Bruzgo BSc Eng is president of D&R CNC Machining Inc. in Englewood, Colo.

Jay Davenport BSc Geol, MSc Geol '98 and Jamie Henderson BSc



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Russell D. Sammons BSc Eng is turnaround and major planning section supervisor for ExxonMobil in Baytown, Texas.

Amadeu Kun Wan Sum BSc Chem, BSc CPR, MSc CPR '96 is an associate professor at Virginia Polytechnic Institute and State University.

#### 1996

Jared Black BSc Eng, MSc Met & Mat Eng '99 and his wife, Jessica, announce the birth of Rosalvn Blanche, July 3. She joins brother, Wyatt, age 2.

Jonathan M. Bloomfield BSc Econ is a financial analyst and business manager for Gunnison Energy Corp. in Denver.

Jenifer S. Wycislak Bommen BSc Geop is a support manager for Schlumberger in Sedalia, Colo.

Christopher W. Clark BSc Pet is a production engineer for XTO Energy in Farmington, N.M.

Trevor R. Elenbaas BSc Min is a consulting engineer for Newmont Mining Corp. in Englewood, Colo.

T. Scott Geiser BSc Eng is a technical field representative for Hughes Christensen in Grand Junction, Colo.

Brandi (Lewis) Goodman BSc Math. BSc Econ. MSc Min Econ '97



and her husband. Shawn, announce the birth of Leah Mae Oct. 23. Brandi and Shawn were married in 2000 and live in

Southern California where Brandi does operations research consulting work for Schneider Logistics.

Matthew K. Johnson BSc Pet is a field engineer and the rotary steerable supervisor for Pathfinder Energy Services in Lafavette, La.

Jose L. Moreno BSc Eng is a diplomatic security engineering officer for the U.S. State Department in Washington, D.C.

Erik P. Ressel BSc Eng is project

manager for Dome Construction in San Francisco.

Francisco A. Rodriguez BSc Pet is a reservoir engineer for Shell in New Orleans.

Jennifer S. Swanson MSc Geop owns Jennifer Swanson Professional Organizing in Chanhassen, Minn.

Raul D. Varela BSc Eng is a business analyst for OppenheimerFunds Inc. in Centennial, Colo.

#### 1998

**Devin F. Boyce BSc Met** is chief inspector for International Steel Group - Burns Harbor LLC in Chesterton, Ind.

**Dustin J. Hansen BSc Eng is** president of Clear Creek Homes Inc. in Fulshear, Texas.

Sarah B. Hill BSc Eng is a project engineer for Kiewit in Aurora, Colo.

Erin L. Iverson BSc Geol is a GIS analyst for Anchor Environmental LLC in Seattle.

James E. Kassian BSc Eng. P.E., is a design engineer with Goodrich in Colorado Springs, Colo.

Jess L. Kindler BSc Min is a project engineer and shift foreman for Vulcan Materials in Bartlett, Ill.

Tenley R. Krueger BSc CPR is a patent attorney for ATOFINA Petrochemicals Inc. in Houston.

Travis C. Lieber BSc Eng is project engineer for Hydra-Electric in Burbank, Calif.

Frank E. Lousberg BSc CPR is production manager for CEMEX Cement Co. in Odessa, Texas.

Dylan J. Morris BSc CPR received his doctorate in materials science from University of Minnesota.

Balazs Nagy MSc Min Ec is a "mad scientist" at TheNewPush LLC in Centennial, Colo.

Terrence Pikul MSc Env Sc is a senior project engineer for CUNO Inc. in Meriden, Conn.

Philip Edward Quinnett BSo **CPR** is a process engineer for ChevronTexaco in El Segundo, Calif.

Umair A. Sved BSc Eng is a partner for New Asian Construction Co. in Mumbai. India.

#### 1999

Alan K. Chamberlain PhD Geol is president and CEO for Cedar Strat in Las Vegas.

Karen L. Dennis BSc Eng is a product engineer for Sundyne Corp. in Arvada, Colo.

Aragorn L. Earls BSc CPR is a plant superintendent for Archer Daniels Midland in Durango.

Lisa N. Gonzales BSc Min is a project engineer for EMC<sup>2</sup> in Phoenix

Christopher J. Greenlee MSc **Env Sc** is an exploration geologist for Castelli Exploration Inc. in Piedmont, Okla.

Alan C. Hoskins BSc Phy is an optical engineer for InPhase Technologies in Longmont, Colo.

Matthew W. Juth BSc Min is a mine engineer for the Climax Molybdenum Co. in Empire, Colo.

Swaminathan Kumaraguru-Baran MSc CPR is business development manager for Soliton Technologies Private Limited in Bangalore, India.

Stefany B. Lewis BSc Geop is a geophysicist for General Engineering Geophysics in Charleston, S.C.

Kyle E. Marker BSc CPR is a Peace Corps volunteer in Nouakchott, Mauritania.

Eric M. May BSc CPR is a financial consultant for A.G. Edwards & Sons Inc. in Greenwood Village, Colo.

Saisamorn Niyomsoan MSc Mat Sc. PhD Mat Sc '03 is a lecturer at Burapha University in Thailand. Andrew L. Olson BSc Geol is a

group engineer in the U.S. Army at Fort Carson, Colo.

Kiran Patankar BSc Geol is an independent consulting engineer in Phoenixville, Pa.

Chadron L. Picard BSc Eng is a transportation engineer for CH2M Hill Inc. in Denver.

Mark J. Pietrak BSc Pet is

production engineer for BP in Houston.

Erin Rakickas BSc Econ, BSc **CPR** married Allison Wallis May 29. Erin is a specialist for Accenture LLP in Chicago.

David L. Sedarsky BSc Phy, M **Eng Engr Sys '02** is in the Physics Department at the Lund Institute of Technology in Sweden.

#### Dawn D. Smith BSc Math &

Comp Sci is a data operation center operator for CoBank ACB in Greenwood Village, Colo.

Andrea R. Tischler BSc Geol received her juris doctorate from Southwestern University School of

George Tumur BSc Met & Mat Eng, MSc Min '02 is deputy general director of R&D for the Mongolrostsvetmet Corp. in Ulaanbaatar, Mongolia,

Katie A. Walter BSc Eng is a manager for Accenture LLP in Denver.

Justin H. Woytek BSc Min, BSc **Econ** is an analyst for CEMEX in Cypress, Texas.

#### 2000



Robert Alexander BSc CPR and his wife, Christy, announce the birth of Aiden Cole, born Nov. 11, 2003.



Tyson Foutz BSc Pet married Nora Wright June 7, 2003, in Oklahoma City.

Katja Freitag PhD Geol is a coordinator for InterRidge in Kiel, Germany

Shane T. Gagliadi BSc Pet and his wife, Kat, have a new addition, Logan Anthony, born July 5.

Taylor C. Goertz BSc Eng is design engineer for TST Inc. of Denver in Lone Tree, Colo.

Kristen J. Gruber BSc CPR is a systems engineer for Lockheed Martin in Houston.

**Natalie Altberg Lousberg BSc CPR** is a process engineer for Ortloff Engineers in Midland, Texas.

Matthew S. MacRostie BSc Eng, M Eng Engr Sys '02 is a project designer for WRG Design Inc. in Portland, Ore.

Jacob Perkins BSc Eng married Lela Parsons March 20. Both are



engineering consultants with Black & Veatch in Denver.

Eric J. Robertson BSc Eng is an engineer for Lockheed Martin in Fort Worth, Texas.

Kimberly E. Sands BSc Pet is a production engineer for EnCana in Denver.

Lia N. Sedillos BSc Eng is an engineer-in-training for McLaughlin Rincon Ltd. in Denver. Jacob W. Shumway BSc Pet is

Resources in Denver. Matthew R. Ulrich BSc Eng is a parametric engineer for Micron Technologies in Boise, Idaho.

project engineer for Western Gas

Shawn D. Zimmerman BSc Eng is project manager for G.T. Leach Builders in Houston.

#### 2001

Mindy S. Arbuckle BSc Econ is director of client liaison for T.A. Myers & Co. in Arvada, Colo.

Jim Bricker BSc Eng and his wife, Jen, announce the birth of

Sophia Mae, born Sept. 7.

Charles K. Craig MSc Env Sc. P.E., is a senior project engineer for ATC Associates Inc. in Tempe, Ariz.

Andrew M. Hopf BSc Eng is doing inside sales for LONG **Building Environments in** Englewood, Colo.

Jason A. Lancaster BSc Eng is sales manager at Stevinson Scion East in Aurora, Colo.

James Dustin Mars BSc Met & Mat Eng is a gas volume analyst for Red Willow in Ignacio. Colo.

John M. McLaughlin BSc Pet is a petroleum engineer for the Ryder Scott Co. in Houston.

Clinton P. Newell BSc Chem

University of Colorado at Denver. Dawn M. Paling BSc Eng is a structural engineer for Merrick &

**Eng** is a graduate student at

Company in Aurora, Colo. Juli A. Park BSc Geol is a staff engineer for ARCADIS in Highlands Ranch, Colo.

Vikram Singh MSc Min Ec is a consulting associate for Charles River Associates in Boston.

Kevin M. Walters BSc Eng, MSc Engr Sys '03 is a research assistant at Stanford University.

Holly M. Daugherty Willman BSc Eng is chief specialist for TNK-BP in Moscow, Russia.

#### 2003

**Andreas Berger MSc Pet** is a drilling engineer for OMV in Vienna, Austria.

Phartrucha Bhongsuvan MSc Min Ec is an ISP information provision analyst for Thai Industrial Gases Public Co. Limited in Thailand.

Lisa M. Billy BSc Eng is a safety and maintenance electrical engineer for BHP Billiton in Farmington, N.M. Justin Carlson BSc Eng, MSc

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Eng & Tech Mgmt '04 is an analyst for Accenture LLP in Littleton, Colo.

Benjamin L. Cohen BSc Pet is a reservoir engineer for Occidental of Elk Hills Inc. in Tupman, Calif.

Margaret E. Dodds MSc Geochem is an environmental scientist for the Environmental Protection Agency in Washington,

Benjamin A. Easley BSc Eng is a project engineer for Archer Western Contractors in La Mesa, Calif.

Brian P. Flannery BSc Math & **Comp Sci** is a systems engineer for Northrop Grumman in Morrison.

Andreas Gruber-Waltl MSc Env Sc is a process engineer for Austrian Energy & Environment in Raabe/Graz, Austria.



Mary E. Hamann BSc Eng married Michael Kasal Feb. 14, 2004 in Pueblo, Colo.

James D. Heskin MSc Min Ec. **BSc Eng, BSc Econ** is an industrial engineer for Texas Instruments in

Jessica Pence Humble MSc Geol is geotechnical engineer for Gannett Fleming Inc. in Phoenix.

David N. Hutchison BSc Eng is a systems engineer for Booz Allen Hamilton in Colorado Springs, Colo.

Kira Beth Jeffery MSc Min Ec is an officer in the U.S. Air Force.

Joshua P. Jenkins BSc Eng is a mechanical/electrical engineer for Samuel Engineering Inc. in Englewood, Colo.

XiangCheng Jia M Eng Pet is a manager for First International Oil Corp. in Almaty, Kazakhstan.

Miharu Kanai MSc Min Ec is a senior expert for Energy Charter Secretariat in Brussels, Belgium.

Christopher L. Landon BSc Eng

is lab manager for Vector Engineering Inc. in Grass Valley,

Joe Mazumdar MSc Min Ec is a senior market analyst for Phelps Dodge in Phoenix.

Ramon Mendoza MSc Min is a project manager for Wiley Consulting in Laredo, Texas.

Nathan Peterson BSc Phy, MSc Engr Sys '04 and his wife, Rebekah, announce the birth of Abigail Elenora and Gwyneth Arlene, born April 7. They live in Bremerton,



Wash., where Nathan is a nuclear

Michael R. Roth BSc Math & Comp Sci is a UNIX systems administrator for Lockheed Martin in Littleton, Colo.

Elfije Salihu MSc Min Ec is an analyst for Accenture LLP in Reston,

Karlan F. Schneider BSc Math & **Comp Sci** is a program support specialist for the U.S. Department of Interior in Denver.

Jessica J. Sikorski BSc Met & Mat Eng is an analyst for Accenture

Joseph V. Sikorski BSc Econ is an engineer in the U.S. Army Core of Engineers in Fort Stewart, Ga.

is account executive for St. Paul Travelers in Denver.

Andrew S. Tripp BSc Min is a mining engineer for Glamis Gold Ltd. in San Igancio, Honduras.

Lucius H. Weeks BSc Chem Eng is a chemical engineer for Champion Technologies in Anchorage, Alaska.

#### 2004

Joseph C. Anderson BSc Eng is a mechanical engineer for ATK Thiokol Propulsion in Kearns, Utah. Brandon R. Baker BSc Eng is a

midstream engineer for Devon Gas Services in Decatur, Texas.

Noelia D. Baptista MSc Geol is an exploration geologist for PDVSA in Puerto La Cruz, Venezuela.

Benjamin S. Belknap BSc Eng. **BSc Econ** is a field engineer for Schlumberger Ltd. in Tyler, Texas.

**Jason C. Close BSc Pet** is a support engineer for Computer Modeling Group in Calgary, Canada

Zeke D. Coleman BSc Eng is a design engineer for DCF Consulting Engineers in Englewood, Colo.

Jamie M. Davenport BSc Chem **Eng** is a nuclear shift test engineer for Puget Sound Naval Shipyard in Washington.

Jedediah E. Davis BSc Eng is an **R&D** engineer for Geoprobe Systems in Salina, Kan.

Ginger S. Dodson Pro MSc Pet **Reservoir Sys** is a geologist for Dodson Exploration in Evergreen, Colo.

Ramesh Dorairajan MSc Eng & **Tech Mgmt** is an analyst for United Airlines in Greenwood Village, Colo.

**Brik Austin Eklund BSc Eng** is an electrical engineer for the U.S. Air

Aaron C. Emmert BSc Chem **Eng** is an engineer with Micron Technologies Inc. in Lakewood,

John H. Enoch BSc Eng is an engineering associate with the Kansas Department of Transportation in Marion.

Payman Farrokhyar BSc Math Renee K. Tokuyama MSc Env Sc & Comp Sci is a product specialist for Ingersoll-Rand in Huntersville.

> Clark B. Friesen BSc Chem Eng is a supervisor for Unimin in Milledgeville, Ga.

Elizabeth C. Galiunas BSc Eng is a junior engineer for ConocoPhillips Alaska in Anchorage.

Kevin R. Hadley BSc Chem Eng married Darcy Marker March 4. Kevin is pursuing a PhD at Vanderbilt University.

James R. Heath BSc Eng is an engineer for TZA Water Engineers Inc. in Lakewood, Colo.

Nancy L. Heflin BSc Geol is an associate engineer for Parsons in Norcross, Ga.

Brian R. Hilgers BSc Eng is a production engineer for Burlington Resources Inc. in Farmington, N.M.

Derek W. Hudson BSc Math & Comp Sci, BSc Eng is a quality assurance engineer for Micron Technology Inc. in Boise, Idaho.

Matthew D. Hudson BSc Chem Eng is an engineer-in-training for Schlumberger Oilfield Services in

Grand Junction, Colo. Keith G. Isberg BSc Eng is a field engineer for LEAM in Houston.

Victoria O. Iwere BSc Chem Eng works for BP in Houston.

Aaron M. James BSc Chem Eng is an associate process engineer for Valero Denver Refinery.

Jonathan P. Jeppson BSc Math & Comp Sci is a software development engineer for Avaya in Westminster, Colo.

Ronald O. Joseph MSc Min is regional explosives engineer for African Explosives Limited Pty. Ltd. in Botswana.

Christopher J. Krier BSc Eng is a graduate student at the University of California-San Diego.

Roy C. Larson BSc Eng is a testing engineer and computer programmer for Barber-Nichols Engineering in Golden, Colo.

Glenn L. Lau BSc Chem Eng, **BSc Econ** is projects lead for BP in Anchorage, Alaska.

Johnny Lee BSc Chem Eng is an engineer with CEMEX Inc. in Houston.

Elizabeth S. Liston BSc Eng is a junior engineer for W. W. Wheeler & Associates in Englewood, Colo.

Robert G. Longseth BSc Eng is an associate test engineer for Ball Aerospace in Longmont, Colo.

Megan Meier BSc Chem Eng is a project engineer for ExxonMobil Research & Engineering in Annandale, N.J.

Agata Miodonski BSc Eng and Jered Dean BSc Eng were married



May 15. Agata is a graduate student at CSM. Jered is a design engineer for Syncroness in Denver.

Kamyar Karimi Mohager BSc Math & Comp Sci is a solutions developer for Avanade in Denver.

Mark M. Montano BSc Eng is an applications engineer for Advanced Coordinate Technology in

Jaime Eduardo Moreno MSc Pet is a senior reservoir engineer for Schlumberger in Kuala Lumpur, Malaysia.

Sarah E. Olezeski BSc Eng is an engineer with Boeing in Canoga Park. Calif.

Michael C. Painter BSc Math & Comp Sci, BSc Eng is a systems engineer for Lockheed Martin in Pevton. Colo.

David J. Patterson BSc Eng is an engineer for Xcel Energy in Denver.

Suzanne L. Pearson BSc Econ is a customer service analyst for Shell Lubricants in Houston. Jason S. Petermen M Eng Pet is

a petroleum engineer for Meritage Energy Partners in Denver. Chad R. Phillips BSc Eng is a field engineer for Kiewit Western in

Littleton, Colo. Ryan W. Phillips BSc Eng is a field engineer for Milender White Construction Co. in Golden, Colo.

Russell A. Powell BSc Eng is a project manager with the USAF in Mountain Home, Idaho.

Kelly J. Presser BSc Math & **Comp Sci** is a teacher for Rocky Mountain Lutheran High School in Broomfield, Colo.

Ward R. Prickett BSc Eng married Melissa Colvin June 19 in Grand Island, Neb, Ward is an



engineer with Allen & Hoshall in

Andrew T. Ritter BSc Eng is a civil design engineer for Harris Kocher Smith in Denver.

Joshua E. Rodriguez BSc Eng is management supervisor for General Motors in Ypsilanti, Mich.

Megan A. Smith BSc Chem Eng is an associate process engineer for Luzenac America Inc. in Three Forks. Mont.

Christine L. Szymanski BSc Pet is an implementation/production engineer for Burlington Resources Oil & Gas in Farmington, N.M.

Derek A. Thornton BSc Eng is a second lieutenant in the U.S. Army at Fort Leonard Wood, Mo.

Colleen K. Tolle BSc Eng is a field engineer for Kiewit Western Co. in Littleton, Colo.

Ryan V. Vandamme BSc Econ is operations manager for The Murrayhill Co. in Denver.

Marc C. Wennogle BSc Geop is a geophysical analyst for Vector Seismic Data Processing Inc. in Denver

Catryn E. Wilson BSc Eng is an environmental engineer for Holcim LP Texas in Midlothian.

Blake L. Winter BSc Eng is an engineer for Cator, Ruma & Associates in Lakewood, Colo

Amanda Wolters BSc Geol married Alexander Strouth BSc. Geol June 13 in Kerrville, Texas.

Sharon K. Yacob MSc Geochem is a geologist for Greyfox Energy in Golden, Colo.

Youngwoo Yi PhD Appl Phy is a faculty member and research associate at University of Colorado.

Dominic J. Zelnik BSc Chem **Eng** is a process engineer for Marathon Oil Co. in Artesia, N.M.

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# From the archive

### A Promising Career Cut Short By Pamela Blome

CSM has graduated many scientists and engineers in its 130-year history and many have gone on to have very successful careers. But when foreign graduates return to their home countries, we often lose track of them. One such

graduate was Zygmunt Antoni Mitera DSc Min '33, from Poland.

In 1997 Mitera's niece, Ewa Koninska, sent us his biography; a letter dated May 22, 1933, describing his graduation; and a booklet, "From Cracow for diploma to Golden, Colorado," which includes a selection of letters he wrote to his family between 1928 and 1939. The booklet is in Polish; the other items have been translated into English. All of these documents are available in the Russell L. & Lyn Wood Mining History Archive in the Arthur Lakes Library.

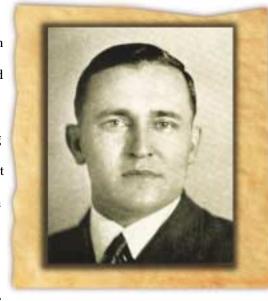
Mitera was born Jan. 17, 1903, in Poland, the son of schoolteachers. He studied at the University of Mining and Metallurgy in Krakow and received his diploma as a mining engineer in 1929. His area of interest was geophysics. Mitera requested a scholarship from the Polish government to study abroad. After studying at the Berlin Technical University, he came to the United States in 1931 to enroll at Colorado School of Mines in the Department of Mining and Geophysical Research, at that time considered the best such department in the country.

In the summer of 1932 when his original scholarship ran out, the Kosciusko Foundation gave him another to help him continue his studies. Zygmunt traveled to Texas and California to gain experience with geophysical methods used in the oil industry. Then in the second half of 1932, Mitera returned to Poland to work for the Polish State Institute of Geology searching for oil accumulations. But he discovered that the institution's methods and equipment were old and he was unable to make full use of the knowledge he'd gained in Germany and the U.S. He returned to Colorado in December 1932 to complete his studies. The following May he became the first Pole to receive his doctorate in geophysics.

At the time of his graduation, in a letter home, Mitera wrote, "The doctorate gives me a chance to get work and employment everywhere where English is spoken, as the Colorado School of Mines is very well known and recognized, and its graduates are willingly employed for mining and geological research. If I decided to stay here longer, I could easily get a well paid job in the States or Canada." However, he decided to return to Poland where he became an instructor in the geophysics department of the Krakow School of Mines. It proved a fateful decision. With friends, Mitera established a private firm, Geotechnics, to carry out mining

and geological searches using the methods he had learned in the U.S. He was able to order machinery from Colorado and in February 1938, began to produce it in Poland. He also traveled to the U.S. during this time and presented a lecture to a meeting of the American Institute of Mining Engineers in New York, which was well received. On the same trip, Mitera also presented a paper to a group of American geophysicists in New Orleans on March 14, 1938. By April, he was back in Poland and his new machinery from Denver was being put to work near Inowroclaw. He made plans to acquire more machinery in 1940.

When World War II started in September 1939, Mitera joined the Polish Army as an officer. The Soviet Army invaded Poland Sept. 17 and by Oct. 5, he had been taken prisoner. The fate of this promising young engineer was unknown for the next 57 years until 1996, when the Association of Katyn Families published the Katyn Book. It was revealed that Mitera had been murdered at a camp called Charkov in the



Soviet Union between April 1 and May 19, 1940. He was one of 15,000 Polish soldiers and intellectuals killed at what was called the Katyn forest massacre.

For many years, the Soviets and the Germans pointed fingers at one another, each blaming the other for this horror. In the early 1990s, after the fall of the Soviet Union, the truth was finally revealed. According to historian Jamie Glazov writing in FrontPageMagazine.com July 28, 2000, "Russia and Poland officially dedicated a memorial commemorating the 60th anniversary of the Katyn forest massacre. The memorial honors the thousands of Polish officers who were executed and dumped into mass graves in the spring of 1940 by the Soviet NKVD [predecessor of the KGB] in the forest outside Katyn, a small town just west of Smolensk in Russia. German troops discovered the mass graves as they swept toward Moscow in 1943. Stalin, naturally, blamed the massacre on the Nazis, and for 50 years the Soviets would steadfastly maintain their innocence."

Pamela Blome is the monograph catalog librarian at the Arthur Lakes Library.



### **Endowed Scholarships—A Gift to the Future**

Endowed scholarships allow the School to address the rising demand for financial assistance so that no eligible student misses the opportunity to attain a superior education.

For some, establishing an endowed scholarship is a way to create a lasting personal legacy that will impact students for years to come. For others an endowed scholarship is a way to memorialize a family member or close friend. Endowments can be made as one outright gift, a pledge contributed over a number of years or included in an individual's estate plan.

Mines offers opportunities for donors to name scholarships beginning at \$25,000. Scholarships may be restricted by donors to support students with financial needs, by field of study, with demographic considerations, or according to other criteria consistent with the School's policies and interests. Donors can choose among a variety of scholarship options to endow, including:

- Undergraduate scholarships that provide for flexible response to the needs of prospective students
- Graduate fellowships for mature learners to develop new ideas, technologies, and applications for the School's industrial partners and other constituencies
- Five-year master's degree fellowships that enable students to seamlessly leverage bachelor's-level curriculum with master's level expertise
- Athletic scholarships, which put students in a position to lead, communicate and collaborate in a competitive setting
- Scholarships for minorities and women a key factor in Mines' ability to achieve balance in the demographic composition of the student body
- Financial assistance for study abroad programs that enrich the undergraduate learning experience and better prepare students for the global work environment in which they will function.



Grewcock Scholar Ryan Miles worked on a Kiewit tunneling project in Atlanta for his 2004 summer internship.

"Recognizing that geographic diversity strengthens Mines' student body and enhances the institution's national and international standing, President Trefny has established a strategic priority to recruit students from across the U. S. and around to world. Because of my belief that my education was enriched through a diverse student body, and because I understand that scholarships for out-of-state students are a primary means of attracting talented non-resident students, I established the Grewcock Scholarship, for students from Nebraska, my home state."

Bruce E. Grewcock '76

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MINES WINTER 2005 COLORADO SCHOOL OF MINES

Colorado School of Mines Alumni Association P.O. Box 1410 Golden, CO 80402-1410



Athletic Director Tom Spicer and his wife, Kathy, ride with Mines' winning football team through the streets of Golden during the Christmas parade.

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