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 Mines spirit, 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 Mines 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
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.
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-the-art 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 employees/students from Thailand, Nigeria and Indonesia had enrolled to work on master of science degrees at Mines. These students will have access to ChevronTexaco data sets and offices during 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.
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:

- Strategic initiatives for fuel cells, materials science and related research
- Programs for graduate education and business development
- Sharing staff and managing intellectual property, including jointly developed patents

ACSEL Lands $1.1 Million

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:

- 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 Annman.

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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 and NREL to detect underground mine voids.

The 2002 flooding at the Quecreek mine in Somerset, Pa., “taught us that the mining of 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 the mines.

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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 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.

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.

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

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.

Campus Maintenance, Top to Bottom
Maneuvering a 120-foot boom lift around Guggenheim Hall, Randy Gray, Mike Ray and Bob Swank of Mines Plant Facilities examined the dome for hail damage, checked the condition of the roof, and washed the windows.

CERI Appoints Board

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MRI Takes Short Takes
The MRI Takes Short Takes column provides a concise look at various topics and events happening on campus and in the Mines community.

CERI’s initial 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 energy industries and universities.

Speaking of Sports...
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.
Stewards of the Earth and its Resources

Throughout 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, 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 preservation and stewardship of the environment as one of four focus areas where CSM will cultivate world-class scholarly expertise.

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 of 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 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 as management 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 contaminates 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 natural systems and advanced technologies to cost-effectively treat waters produced during oil and gas exploration and recovery. Research is also exploring the production of hydrogen fuel from bacteria farts as well as the transport of uranium and plutonium released into the environment at nuclear energy facilities and waste repositories. Related to materials, development of scientific understanding is enabling development and application of membranes and novel sorbents for water treatment and wastewater reuse. In the area of mining and mineral resource recovery, research is focused on hydrologic modeling and development of control techniques to minimize water intrusion and adverse effects on water quality as well as development of passive treatment barriers to mitigate adverse environmental effects caused by acid mine drainage from active and abandoned mine sites. CSM’s environmental research and education have demonstrated a 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 1981 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 resource recovery, such as reverse osmosis for brackish and seawater desalination.
In the area of remediation of contaminated land and water, CSM faculty and staff have international connections and stature. For nearly 12 years, he has collaborated 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, with Cambridge University have focused on the application of geotechnical centrifuges and numerical modeling of geotechnical systems to study groundwater contamination problems and development of a wireless networking technology for ground water plume monitoring. With Copenhagen University in Denmark, studies have been focused on multiphase fluid behavior in heterogeneous aquifers and runoff from subfreezing permafrost in Greenland. Eileen Poiter 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 involved in a project to carry out complete environmental audits of three gold mines in Mali, West Africa, during which he examined potential water contamination from mine pit waters, rock-waste 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 (CESSP), Center for Environmental Risk Assessment, Rocky Mountain Hazardous Substance Research Center, and the Rocky Mountain Small Flows Program. The IGWMC (www.igwmc.org), directed by Poiter, is a focal point for ground water professionals to support and advance the appropriate use of quality-assured models in ground water resources protection and management. The IGWMC provides advice on ground water modeling. The IGWMC offers a Master of Science degree in hydrogeology and environmental engineering with a concentration in surface and subsurface environmental processes and remediation. The IGWMC offers postgraduate and continuing education in the form of short courses, workshops, and international summer schools.

Opportunities for students to learn about environmental science, engineering and technology as well as the social, economic and policy 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 Australia 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 Egypt. The team of students designed a low-cost (less than $15) durable foot pump that can easily be carried and assembled. The team of students designed a water purification system for Yarmam, Nepal. Through the symposium series is done in collaboration with the Audubon Society, which has worked to stimulate dialogue and creative problem solving to prevent and mitigate water-related projects 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 symposium series is done in collaboration with the Audubon Society, which has worked to stimulate dialogue and creative problem solving to prevent and mitigate water-related projects 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.

Robert Sergi is a professor and Environmental Science & Engineering Division director.
Fraternities and Sororities Flourish at Mines

Fraternities, 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 drive 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 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.

For more information about Greek life at Mines, see www.mines.edu/dsu_life/activities/greek_life.html.
Football Team Enjoys Best Season in School History

The highlight of the 2004 fall athletics season at 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 Still who earned Coach of the Year honors.

Joining Friehauf on the First Team defense were senior strong safety Daniel Leger, junior wide receiver Justin Gallas and junior defensive linemen Pat Carroll and Mark Daniels. On offense, senior running back Craig Van Horn, senior wide receiver Jonny Chan, sophomore tight end Bryan Florendo, sophomore kicker Aaron Abel were all Second Team picks on the offensive side of the ball.

However, the Orediggers ran into a red-hot Pittsburg State team that was ranked No. 1 in the nation and was coming off a 28-7 lead at the end of the first quarter and ended CSM’s season, 70-35.

Senior cornerback Brian Yureseks and sophomore linebacker Jared Heath and sophomore free safety Tim Miller were selected to the Second Team.

Ten players were honored as Second Team selections, while two players earned Honorable Mention accolades. Senior running back Craig Van Horn, senior wide receiver Jonny Chan, sophomore tight and Bryan Florendo, sophomore offensive lineman Nick Belden and freshman kicker Aaron Abel were all Second Team picks on offense, while junior cornerback Nick Gilbreath and junior defensive linemen Pat Carroll and Mark Daniels were Second Team picks on defense. Gallas was a Second Team honoree as punt returner and Chan was a Second Team pick at kick returner.

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

CSM Football Team Enjoyed Best Season in School History

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 also named All-RMAC First Team by the coaches.

The 6-foot-7 Friehauf finished his career as the all-time leader at Mines in attempts (1,183), completions (773), passing yards (9,873) and touchdowns (773). He was 22-8 (.733) as the starting quarterback at CSM, which ranked him ninth all-time in Division II with quarterbacks who have a minimum of 25 starts, is sixth on the all-time Division II total offense list (10,670), 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 the spring, the Outer Continental Seaboard Team and the Mid-America Football Classic. Friehauf finished the 2004 season with 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 yards 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.

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 to Metro State and a four-set loss to Fort Hays State, teams that qualified for the Regional Tournament. Sophomore middle blocker Amanda 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 Valle was an All-RMAC honoree 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 Rydhik placed second overall in the tournament and teamed with Teemu Syljanen to reach the semifinals of the doubles competition.

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 18th 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 4,046 yards and 39 touchdowns, the 10th best for a single season in Division II history. He also ran 144 times for 717 yards 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.
February
28 SME Annual Meeting and Exhibit Feb. 28-March 2, 2005 in Salt Lake City, Time and place TBA.

March
10 Golden, Colo., Lunch Bunch: second Thursdays at Buffalo Rose 1119 Washington, 11:30 a.m. Downtown Denver Mixer: second Thursdays and also at Buffalo Rose 1119, 5-7:30 p.m. Pay own way.

April
10 Boston, Mass., alumni event. National Indoor NCAA Track & Field Championships, TBA.
13 Bone Valley, Fla., BBQ, IMC picnic area, on state highway 37, 17.5 miles south of Melbourne, Fla.

May
10 Portland, Ore., Alumni Reunion.
12 Golden, Colo., section luncheon (see March 10 for details). Grand Junction, Colo., section luncheon (see March 10 for details). Walnut, Calif., Alumni track event, Mt. Sac Relays, TBA.

June
12 Golden, Colo., Alumni Track & Field Championship.

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

Frank Seeton EM '47 recently published a booklet, Minerals and Their Characteristic Features, which describes more than 200 minerals in a condensed and convenient form for the mineral collector, rockhound, geologist and student. The booklets are $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.

Seeton Publishes Book on Minerals

Frank Seeton EM '47 recently published a booklet, Minerals and Their Characteristic Features, which describes more than 200 minerals in a condensed and convenient form for the mineral collector, rockhound, geologist and student. The booklets are $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.

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 only 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 Woodmont National Park where McNeely manages a large retail store.

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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’ 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 funded by an athletic scholarship. He played both football and baseball, and Chesebro’ was able to attend Mines through the assistance of an edge research program and to teach undergraduate and graduate scholar to fill the Chesebro’ Chair. Mines is seeking an individual extraordinarily generous gift, the Chesebro’s have put the priority. Answering the call, Engineering Department’s first distinguished endowed chair as a campaign, the School identified funding the Petroleum Engineering Department in my mind, and I think this is unique in that it is the only distinguished chair at Mines created through a donation from an individual. 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 is 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 M Ines was the happiest of my life, to move on, to go into industry - that is, the happiest day of my life until the day following graduation when I married Dollie. But, after a while you learn to really understand what you went through at M Ines, to understand what an advantage you have out in industry due to your background, due to your Mines experience. After, say, five years or so you start getting a little softer, maybe even start giving back to Mines, whether that be monotonously through writing a check or giving your time in some other means such as volunteering your time. Of course as more time goes by, you more realize how important M Ines was and how much it did contribute to your capability, and if you have success, however you measure it, how important M Ines was to that success.

What characteristics did M Ines help instill within you that contributed to your success? The entire M Ines experience was important. Problem solving, both specific and non-specific, the work ethic, the drive, the competitiveness, the drive to succeed, the drive to do the best you can. I think they’re really important. I think M Ines taught you that you 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 have been there for 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
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.
Crossing the Colorado River  

By June D. Bell

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 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 says.

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 30-something-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 color-print category and was published in a BP company magazine. The following year, Robert “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 Eckles’ photos—“Tutut and a son”—appears on the back label.

According to Eckles, when Tutut was young, she was born 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 orphans Nancy, whom she took in and raised as her own.

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

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.

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.
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 in honor of his son with an accumulated value of $101,376.
- **Steve ’64 and Dolly Chesbro** made pledge payments of $430,281 toward their $2.5 million Transforming Resources campaign pledge.
- The Chesbro 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 Endowment.
- **Marshall ’67 and Jane Crouch** made a payment on their pledge to the Transforming Resources pledge of $100,000. Their gift supports the Mines Endowment, 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.
- **Charlie Fitch ’49** contributed $25,000 to the McBride Honors Program.
- **John U. and Sharon L. Trefny Endowment for Excellence in Engineering**
- **Sharon Trefny** contributed $100,000. Their gift supports the William K. Coors Distinguished Chair in Chemical Engineering and the Herman F. Coors Professor Chair.
- **The Viola Vestal Coultier Foundation** contributed $35,000 to support the Coultier Chair for Mine Economics.

The Adolph Coors Foundation made gifts totaling $251,830 in support of the John K. Coors Distinguished Chair in Mina Harris in the area of non-additional reconstruction of reactive metals.
- **The William and Flora Hewlett Foundation** contributed $296,000 toward their $1,167,000 grant for humanitarian engineering.
- **The HP Foundation** awarded Manson an HP Technology for Teaching cash and product package grant valued at $69,613.

In 2004, Mines received $250,000 to support the activities of Dr. Brajendra Hodder ‘52, a charter member of the President’s Council, and the Minority Engineering Department.

**George W. Wood** ’65 joined the Guggenheim Society with a contribution of $25,000 to the Mines Endowment, and challenged Provosts to match his gift during their 40th reunion.

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

**Bill Ireton** ’48 contributed $40,000 and a matching gift of $5,500. He directed $5,000 to the Mines Endowment and the remainder to the Ireton Family Scholarship Fund.

With a donation of $51,327, **Joe ’42 and Mary Kooloo Gough** added a significant contribution to their second charitable gift annuity.

**Robert Locke** and **Erika Lockridge** made a $2.5 million donation to supplant 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. McKinnon**, a longtime friend of the School.

**Mines President John Trefny and his wife Sharon** made a $500,000 pledge payment on their pledge to the Aims of Excellence in Engineering.

**Muriel Roberts** was a charter member of both the President’s Council and the McBride Honors Program.

- **Robert L. Seigler** and his wife, **Molly Seigler** contributed $25,000 to the Mines Endowment.

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- **The HP Foundation** awarded Manson an HP Technology for Teaching cash and product package grant valued at $69,613.

- **Inflammatory Systems** contributed gifts totaling $184,100 in appreciated securities. He made an additional gift of $1,000 to the Mines Endowment.

- **The Li Foundation** contributed $42,000 for their Young Alumni Fellowship.

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

- **The Phelps Dodge Foundation** supported graduate-student scholarships with a gift of $10,000.

- **Steel 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 Spier in the Department of Physics.
Meet the New Alumni Relations Director

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 forward 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 on-campus lectures or panels of broad, topical interest; and 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 goals?
Evaluation, partnerships, bridge building, buy-in, consensus, implementation, more evaluation, stakeholder involvement and more paying memberships. For a tax-deductible $55 per year, an alumnus can help chart the course of a more meaningful alumni experience. 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.

New Life Members

Kathleen A. Altman ’80
Aaron J. Atherton ’99
Brianna G. Atherton ’01
Timothy A. Barbari ’79
Sheryl A. Barnett ’84
Shishe Baata ’80
Christine M. Beatty ‘95
Chad M. Biebe ’99
Melisa A. Bond ‘88
Derek T. Brungus ’95
Samuel Chang ’88
Robert E. Childress ’70
Scott R. Clark ’85
Alan R. Clemens ’80
Chadwin F. Cox ’93
Mark L. Dawe ’98
Brian E. Donovan ’85
Jennifer E. Ekker ’01
Geno L. Fallico ’00
Donald F. Fecko ’88
Sandy J. Fekos 102
Amy N. Flammon ’95
Hoddy L. Finnell ’84
Barbara Garonog ’82
M. Scott Gilles ’79
Ramona M. Graves ’92
Pablo Hatzageria ’93
Dustin J. Hansen ’88
Dwain A. Harmon ’01
Adam T. Harvey ’86
Sam Hewitt ’95
Scott N. Hodgson ’03
Yen Jung Huang ’02
Michael R. Hughes ’72
Brett D. Jackson ’97
Leonard D. Jones ’71
Robert Charles Jones ’03
R. Dennis Kasten ’70
Joe H. Keff ’74
Michael W. Longshaw ’89
David C. More ’82
Thomas E. Mullins ’91
John S. Olsson ’88
Daniel Paneva ’68
Raulie M. Pederson ’88
Philip Edward Quinnet ’88
David S. Roby ’91
Robert M. Schulz ’89
Doris A. and Fred R. Schwartz ’53
Vance L. Scott ’77
Patrick T. Sewell ’95
Richard P. Spoonhour ’01
Lee A. Turner ’70
Edward P. Trounix ’82
William A. Vanderveen ’03
Charles J. Vellios #11
Harry J. Warner ’97
Thomas L. Watanabe ’75
Janet A. Wille ’92

Finding 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 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 grow the 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.

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Janet A. Wille ’92

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
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.”

Metro Denver

Legacy Grants

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

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.

Legacy Grants

Legacy grants are given to children or grandchildren of alumni who have been members of CSM AA.

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.

New Mexico

Rio Grande Valley

In August, Chuck McKinnis ’59 hosted a send-off party for incoming freshmen in the Albuquerque area.

East

Tennessee Valley

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 poohy80@comcast.net for more information.

Boston

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 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 Przywiotowski ’94 organized an alumni picnic at Balboa Park on a beautiful, sunny day in October.

Adams State Game

Legacy Grants

Legacy grants are given to children or grandchildren of alumni who have been members of CSM AA.

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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 1982, he married Jackie Spelman. Barton retired early to enjoy painting, traveling and skiing with his wife. In 1987, they moved to Santa Rosa, Calif., where Barton raised, trained and showed Tennessee Walking Horses. The Bartonts 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 humor and love of life will be missed by his family and friends. He is survived by his wife, a daughter, a son and four grandchildren.

KING GEORGE E. "BUDD" GEORGE ’52 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’s valued member," said friend Van Howbert Geordel E. ’51. After serving in the U.S. Army, King entered Mines where he became a member of Alpha Tau Omega, Theta Tau, Blue Key, 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 the Blind and Dyslexic. He served six years on its board of directors and was chairman of the board from 1999-2002. 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, Elaine, a son, a daughter 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 Commerce News newspapers. After graduation, he worked for a florists 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 Rosario Honduras Mining Company in Honduras; and Midwest Mining Company in Potosi, Mo., which produced batiste for pharmaceutical, pigment and drilling mud. Midwest Mining Company was bought by the M.P., division of Pfizer Pharmaceutical Company. Griffey retired when Pfizer closed the batiste 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, Jesse, two daughters, four grandchildren and two great-grandchildren.

FREDERICK E. JOHNSON MET E ’54 died at home surrounded by his family after a courageous eight-month battle with cancer. After he retired from United Air Lines as a captain in 1992, he enjoyed gardening, traveling, boating and spending time with his family. His greatest love was reading about, looking at and flying airplanes. He also was a captain in the Society for Mining, Metallurgy and Exploration and was an avid sportsman and outdoorsman. LaMar is survived by his parents, Ronald G. and Sandra K. Straker; LaMar, a sister, three grandparents and several aunts and uncles.

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GEORGE J. McCUTCHEON GEOL E ’38 died April 25 in Odessa, Texas, after a brief illness. He was 90. McCutcheon 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. McCutcheon 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 1963 CSM graduate, predeceased him. Always enamored with the music of the Big Bands of the ’30s and ’40s, McCutcheon was a member of the Odessa Jazz Party and being on the board of directors that went on to become known as the West Texas Jazz Society.

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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 was discharged due to poor health 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 for Denver and worked for Vulcan Iron Works and then Western Machinery Company. In the early 30s he and his partner purchased the Colorado and Wyoming branches of Wemco and named it Western States Machinery Company. In 1959 and worked as a chemical engineer. Vesber, a native of Iowa, earned his undergraduate degree from Iowa State University before moving to Colorado and was on the faculty at CSM in the geophysics department.

Inmemoriam

WILLIAM D. BROWN MET E ’52 2004
GREGORY S. DOLE BSC MATH & COMP SCI ’03
THOMAS A. FISCHER BME E ’70 2004
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THOMAS A. FISCHER BME E ’70 2004
Jenifer S. Wycislak Bommen, 1996
is an exploration geologist for Castelli Exploration Inc. in Las Vegas.

Eric J. Baehr BSc, MSc, PhD is an engineer in transportation for Aiden Cole, born Nov. 11, 2003.

Carol T. DeQuartier BSc, MSE, MSc is a research assistant at Texas A&M University.

Julie S. Dean BSc, MEng, MSc is an engineer in geotechnical consulting with Black & Veatch.

Vikram Singh MSc, PhD is an engineer in the Physics Department at the Lund Institute of Technology.

Daniel R. Gagnon BSc, MEng is a process engineer for Schlumberger in Sedalia, Colo.

Chadron L. Picard BSc, MSE is an engineer in geomaterials engineering with the Ryder Scott Co. in Houston.

Kimberly E. Sands BSc, MEng is a project manager for G.T. Leach Builders in Houston.

John M. McLaughlin BSc, MSE is a structural engineer for Metrobi & Company in Aurora, Colo.

Robert Alexander BSc, MSE is a data operations center operator for Schlumberger in Satilla, Ga.

Matthew K. Johnson BSc, MSE is a lecturer in materials engineering at the University of Arizona.

Kiran Patankar BSc, MSE is a process engineer for Castelli Exploration Inc. in Las Vegas.

Rosalyn M. Jones BSc, MSE is a business analyst for Schlumberger in Satila, Ga.

Shane T. Gagliadi BSc, MSE is a project manager for G.T. Leach Builders in Houston.

Sophia Mae, born Sept. 7.

Mindy S. Arbuckle BSc, MSE is an engineering consultant with Black & Veatch.

Mark J. Petrik BSc, MSE is a project manager for Dome Construction in Las Vegas.

Sarah B. Hill BSc, MSE is a principal for Arco in Idaho.

Shawn, announce the birth of Leah Mae Oct. 23.

Robert Alan Borden BSc, MSE is an engineer in geotechnical consulting with Black & Veatch.

Mark A. Martin BSc, MSE is a staff engineer for ARCADIS in Highlands Ranch, Colo.

Brenda G. May BSc, MSE is an engineer in the Physics Department at the Lund Institute of Technology.
James D. Hedin BSc Min, BSc Eng & BSc Econ in an industrial engineer for Texas Instruments in Dallas.

Jessica Pence Humble BSc Geo is a geological engineer for GeoFrame Inc. in Phoenix.

David N. Hutchison BSc Eng is a systems engineer for Boeing Aerospace in Longmont, Colo.

James D. Heskin MSc Min, BSc Eng is a mining engineer for Doe Run Colorado in Denver.

Mary L. Joyner BSc Geol is a software engineer for Alterra Oil & Gas in Farmington, N.M.

Wendy A. Johns BSc Min is a geomatics manager for Tetra Tech in Anchorage, Alaska.

Andrew T. Ritter BSc Eng is an analyst for NREL in Golden, Colo.

James R. Heath BSc Eng is a resident assistant professor in Engineering at Montana State University.

Rachel A. Flanagan BSc Eng is a petroleum engineer for Marathon Oil Co. in Artesia, N.M.

Erika E. Brown BSc Geol is an engineering geologist for Gaspey Resources Inc. in Farmington, N.M.

Seth M. Parnell BSc Phys, BSc Eng is a nuclear shift test engineer for TVA in Chattanooga, Tenn.

John W. Harison BSc Chem is a project engineer for ExxonMobil Research & Engineering in Farmington, N.M.

Dominic J. Zelnik BSc Chem is a project engineer for Nalco Water in St. Louis, Mo.

Jared Dean BSc Eng is an analyst at Alterra Oil & Gas in Farmington, N.M.

Jared E. Ziegler BSc Eng is a nuclear shift test engineer for TVA in Chattanooga, Tenn.

Bethany L. Grell BSc Min, BSc Geo is a petroleum engineer for Marathon Oil Co. in Artesia, N.M.

Andres A. Gross BSc Geol is a petroleum engineer for Marathon Oil Co. in Artesia, N.M.

Joshua E. Rodriguez BSc Eng married Melissa Collin June 29 in Grand Island, Neb. Ward is an

Andrew R. Gupta BSc Geol is a petroleum engineer for Marathon Oil Co. in Artesia, N.M.

Christopher J. Krier BSc Eng is an implementation/production engineer for Schlumberger in Kuala Lumpur, Malaysia.

Matthew D. Hudson BSc Chem is an implementation/production engineer for Schlumberger in Boise, Idaho.

Joe Mazurczak BSc Min is a senior market analyst for Phelps Dodge in Phoenix, Ariz.

Ginger S. Dodson Pro MSc Pet is an acquisitions analyst for BP in Houston.

Joseph V. Sikorski BSc Econ is an analyst for Accenture in Atlanta.

Zeke D. Coleman BSc Eng is an associate engineer for Parsons in Norfolk, Va.

Elizabeth S. Liston BSc Eng is a teacher for Rocky Mountain Home, Idaho.

Marc C. Winnecke BSc Geo is a systems engineer for Livermore National Laboratory in Livermore, Calif.

Daniel W. Hudson BSc Math & Comp Sci is an implementation engineer for Accenture in Atlanta.

Joshua P. Jenkins BSc Eng is an analyst with Micron Technologies in Anchorage, Alaska.

Kira Beth Jeffery MSc Min is an associate process engineer for Xcel Energy in Denver.

John H. Enoch BSc Eng is an engineering associate for the U.S. Army Corps of Engineers in Fort Leonard Wood, Mo.

Christopher K. Spalding BSc Min is an systems engineer for Ford Motor Co. in Dearborn, Mich.

Agata K. Kowal BSc Min, BSc Geo is an implementation/production engineer for Schlumberger in Kuala Lumpur, Malaysia.

Joshua P. Jenkins BSc Eng is an analyst with Micron Technologies in Anchorage, Alaska.

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A Promising Career Cut Short
By Pamela Blome

CQM 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 D.Sc Min ’33, from Poland.

In 1997 Mitera’s niece, Ewa Koninkski, 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 1932 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 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.

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