We are in the business of creating the future in which we, our students, and all humanity will live and work. — John U. Trefny
The Smart Choices When You're Away from Home.

By business travelers, for business travelers, we keep pace with everything you need for business or for pleasure, including:
- Free high-speed internet access
- On-site restaurant for breakfast
- Meeting space for groups up to 40
- Indoor pool, whirlpool and exercise room
- 24-hour business center

You'll find room to live in the all-suite Residence Inn. With 24-hour room service, 60" high-definition TV, room service, and our complimentary breakfast buffet, it's like having a home on the road wherever you go.

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About Our Cover:
In a special pull-out center insert, Mines presents an ambitious, visionary plan for the decade ahead.
I enjoyed reading the letter from Lou Amick about his slide rule that appeared in the Spring 2004 issues of Mines. My old slide rules are displayed in a glass case in my office as shown in the enclosed photo. The sign at the bottom of the case reads in red capital letters: "BREAK GLASS IN CASE OF CALCULATOR FAILURE." Hopefully I will never have to follow that instruction.

Richard Waisar MSc Min '62

I receive Mines at my home because my son is too lazy to send his address changes to you. It's not my job!

I worked in research for almost 40 years and was delighted to read "Going to Extremes, Materials Science and Engineering" by Mark Eberhart. I saw Lawrence Berkeley National Lab credited for a photo. I worked there on accelerators for 36 years.

Jim Hinkson, father of Stephen J. Hinkson BSc Phy '91

Correction: Grant D. Erdmann BSc Math '98 received his PhD in industrial and applied mathematics from University of Minnesota in 2003, not a master's degree as reported in the last issue.

Correction: Rocky Moutains to the World: A History of the Colorado School of Mines: CSM President Emeritus Theodore Bickert's name was misspelled in the history book on pages 11, 185, 202-204 and 207. His name appears as Bicket instead of Bickert.

Kristen and husband Matthew Jerger BSc Eng '94 and their new twins. Kristen is holding her award plaque.

Kristen Morahan Jerger BSc Eng '95 won the 2004 Destination ImagiNation, Inc. Risogimento Award in May. The award is given in recognition of outstanding creativity that transforms the world.

Zehr '52 Army Years Chronaled

Norm Zehr EM '52, MSc Min '56 was mentioned in a new book, A History of 40th Division Army Aviation in Korea. Zehr was a fighter pilot who served in Korea from 1953-1954.
Hurley Elected VP
Neil F. Hurley of the Department of Geology and Geological Engineering has been elected vice president by the 31,000-member American Association of Petroleum Geologists (AAPG). Hurley, who holds the Charles Boettcher Distinguished Chair in Petroleum Geology, is a past elected editor of AAPG.

RMAC Honors Murphy
Mines Sports Information Director Greg Murphy received the third annual J.K. Campbell Award in July at the annual Rocky Mountain Athletic Conference (RMAC) Hall of Fame banquet in Colorado Springs. The award, sponsored and voted upon by the 14 sports information directors in the RMAC, recognizes excellence and professionalism in the field of sports information.

A Lot of Paint
More whitewash than ever covered the “M” on Mt. Zion in August as the largest-ever number of new students—approximately 800 freshmen and transfers—started the school year with the M-Climb tradition.

Water Research Granted $2.69 Million
The U.S. Department of Energy has awarded $2.69 million to fund research on “Produced Water Management and Beneficial Use,” a project that partners Mines with researchers in Montana and Wyoming, as well as colleagues at the Gas Technology Institute, Argonne National Laboratories, and Stanford University.

Caucus on Science and Technology
July 7 in Washington, D.C. Matlock’s presentation was part of the program “American Steel: Forging Strong Links Between Materials Science and Technology to Ignite the Industry,” coordinated by the federation of all U.S. professional societies that emphasize materials.

Society News
Dr. Brajendra Mishra of the Metallurgical and Materials Engineering Department has been selected to serve as president of The Minerals, Metals and Materials Society of AIME in 2006. He will serve as the vice president in 2005. Currently the chair of the Extraction & Processing Division, Mishra has served on the board of directors since 2003. In addition, Mishra has been named a Fellow of the American Society of Materials International for 2004.

How Hot Was It?
On a KUSA-TV, 9NEWS, story that aired July 13, Mines Physics Department representatives helped anchorwoman Ward Lucas report the city’s 99-degree temperature. Not only did the group cook an egg under the sun, they also prepared s’mores by melting chocolate and marshmallows.

Not only did the group cook an egg under the sun, they also prepared s’mores by melting chocolate and marshmallows.

“Silver Snoopy” to Abdud-Madrid
Angel Abdud-Madrid, associate research professor of Chemical Engineering and associate director of the Center for Commercial Applications of Combustion in Space, received the NASA Astronaut Personal Achievement Award (“Silver Snoopy” Award) on June 22 in Cleveland, Ohio. The award was presented by NASA astronaut Don Pettit; Dr. Julian Earls, director of NASA Glenn Research Center; and Ann Over, chief of the Combustion Flight Projects Branch at NASA’s GRC. The “Silver Snoopy” is awarded by NASA’s astronaut corps to individuals for outstanding efforts that contribute to the success of human space flight missions.

U.S. Senators Hear Matlock
David K. Matlock spoke at the Materials Information Luncheon for the U.S. Senate.

No Dummies Here
Rob Farrington explains “Adam,” the fully instrumented mannequin in the automatic air-conditioning research center at NREL during the 2004 Energy and Minerals Field Institute for government officials, hosted in August by Mines’ Special Programs and Continuing Education.
Want to watch your favorite TV sports event in high definition? Why not your underwater research too? On one TV screen you observe characteristics of sea floor hydrates a half mile away, and on another you glance over and catch Lance Armstrong gracefully finishing his sixth straight Tour de France victory. For Mines graduate student Keith Hester BSc Chem Eng '02, this was a reality at sea.

In conjunction with the Monterey Bay Aquarium Research Institute (MBARI), Hester and Mines Professor Dendy Sloan recently embarked on a research project concerning natural hydrates in the deep sea. A hydrate is an ice-like compound composed of water, which can trap large volumes of gas, such as methane. The two-week study at the Hydrate Ridge site off the coast of Oregon yielded results concerning the amount of methane available in natural hydrates. Natural hydrates are estimated to contain nearly twice the amount of methane found in traditional fossil fuels such as oil. “At a time when the world is starting to search for new sources of energy, it’s important to remember the ocean makes up 70 percent of our Earth and we should be looking for possible sources there first,” Sloan commented.

The research was done in situ, or in an undisturbed natural environment, using a remotely operated vehicle (ROV). Hester obtained results via a laser Raman spectrometer capable of measuring molecules remotely underwater. Hester, in a control room almost a half mile from the spectrometer, instructed MBARI pilots on how to position the spectrometer as he observed on high definition television monitors. Sloan marveled at the impact of using such technology, noting, “In a way, this research method is Jules Verne’s dream of scientific fiction coming true.”

Hester is working on his Ph.D. in chemical engineering. His thesis focuses largely on deep sea Raman spectroscopy on natural hydrates. The research done by Hester and Sloan was funded by the National Undersea Research Program, a division of the National Oceanic and Atmospheric Administration (NOAA). Hester’s work is published on the MBARI Web site under the gas hydrates section of the Raman spectrometer research. To take a closer look at Keith’s work, visit www.mbari.org/raman/hydrates.htm.

By Jil Erganbright

MBARI pilots on how to position the spectrometer as he observed on high definition television monitors. Sloan marveled at the impact of using such technology, noting, “In a way, this research method is Jules Verne’s dream of scientific fiction coming true.”

Hester focused the Raman laser on a natural hydrate specimen from the control room a half mile away.

The Raman spectrometer was deployed on the ROV Tiburon.
Staying connected

CSM Alumni Association

Officers
Arthur T. Bidde Met ′61
President
Alan J. Menin BSc CPR ′79
President-elect
Kathleen A. Altman BSc Met ′80
Treasurer
Roger Newell MSc Geel ′71
Secretary

Directors
Jeremy Bradford BSc Eng ′03
Scott R. Clark BSc Pet ′85
Vicki J. Cowub MSc Geop ′77
Marshall C. Crouch III Geel E ′67
Brenda J. Eckles BSc Geop ′94
Hugh W. Evans EM ′69
Scott Gustafson BSc Geop ′77,
MSc M in E ′79
Kimberly M. Lewis BSc CPR ′92
Mike Nolan, Student Representative
Don Ott Geop E ′63
Pat Phillips Met E ′61
Laurence G. Preble PRE ′61
Pat Phillips Met E ′61
Lori L. Stucky BSc Eng ′97

Staff
Janet Blair, Administrative Assistant
Kathy Brett, Intern, Executive Director
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Ginny Bruno, Clerical Assistant
Maureen Keller, Editor
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E-mail: csm@mines.edu
www.alumni/mines.edu

Send-Off Parties

One way alumni stay in touch is to host
and/or attend send-off parties for incoming
freshmen.

In the Gulf Coast area, Rob Jenkins ′60
and his wife hosted a send-off party for incoming
freshman Douglas Watson and his parents.
From left, Gordon Royce ′60, Ron Doster
′00, Eric Drumm ′02, Dick Houston ′65,
Jenkins and guest of honor, Watson.

In Wyoming, Lisa ′92 and Bryan Mortimer
′91 and Lorraine ′96 and Michael Patton ′94
hosted a dessert reception for incoming
freshmen Chip Eklund and Jennifer Hanks.
Back row from left, Byron Eklund, Chip
Eklund, Michael Patton, Bryan Mortimer,
Dennis Kousb, Jennifer Hanks, Bill Fischer
′96, Herb Price ′65 and Brian Quick ′98.
Front row, Nancy Eklund, Lorraine Patton,
Lisa Mortimer, John Fraher ′44, Jim ′76 and
Maria Criswell ′79. Not pictured but in
attendance were Fran and Randy Pitts ′78.

Southwest

Phoenix
A group of alumni got together in Phoenix
this summer to picnic and watch the Rockies
beat the Diamondbacks.

Central

Chicago
In Chicago, a group of alumni gathered to
watch the Colorado Rapids beat the Chicago
Fire in soccer.

Metro Denver

For the second year in a row, the Alumni Association hosted a
freshman move-in day picnic at the Coolbaugh House. This year,
more than 300 attended including students, their families and
alumni. The following Monday, alumni volunteered again to help
freshman by handing out water during the “M” climb.

Thank you to all who participated in the 20th annual CSMAA
golf tournament.

2004 Winners from left, Alan Klinechner, John Wohrer ′84,
Dean Wohrer ′84, Mike DeBerard ′82.

J oin us for Homecoming and Reunions
Fri., Oct. 22-23, 2004

Golf Lectures:
The Role of the University in Energy Research
Engineering in Iraqi: Civilian Infrastructure Rehabilitation
Mines Strategic Plan
Class Dinners/Receptions

Friday

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Golf Lectures:
The Role of the University in Energy Research
Engineering in Iraqi: Civilian Infrastructure Rehabilitation
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Class Dinners/Receptions
Dear Colleagues and Friends:

With much gratitude for the efforts of many individuals, I am pleased to introduce the Strategic Plan for Colorado School of Mines. In the pages that follow, we share with you an exciting outline for the next 10 years. A description of the campus Facilities Master Plan, designed in conjunction with the Strategic Plan, will appear in the next issue of Mines.

These summary plans capture some, but by no means all, of the thinking that has brought us to this point. Implementation will require an enormous amount of further study and analysis, as well as numerous decisions regarding specific strategies and actions. Individuals and committees are already operating to this end, and more will be engaged in the coming months. In addition, the foundations for a strong marketing effort are in development.

One element of the Plan is to move Mines from a local institution to one that expressly encompasses national and international needs. This is reflected in our goal to broaden the student base and also in the emphasis on key focus areas that build upon our existing and near-term potentials. Continued excellence in education is of paramount importance. Even as we enhance our academic programs, we will design added educational dimensions to better prepare our graduates for successful careers, leadership roles in their respective fields and responsible citizenship. All possible benefits of a residential campus—including academics, student-life activities and professional service—will contribute to an exceptional Mines educational experience.

Through our degree programs, research and public service, Mines will become even more of a full-service provider for the segments of society we serve. Increased professional-outreach programs and enhanced technology transfer are among the planned extensions of our current portfolio. Policies, procedures, facilities and infrastructure to support research are all slated for essential improvements.

Enacting the Plan in the decade ahead, Mines will do business in new ways, as evidenced by an enhanced interdisciplinary or “whole institution” approach, as well as an increased emphasis on external partnerships. The recent Affiliation Agreement between Mines and its Alumni Association sets the stage for alumni to participate in many aspects of the Plan.

This is a critical time for Mines. Our environment and, particularly, our relationship with the State, are changing rapidly. In fact, these changes may even affect the priorities and sequencing of the Strategic Plan. Our existing resources are stretched, and there is tremendous pressure to develop new sources of support such as endowments, sponsorships and entrepreneurial initiatives. The reputation of Colorado School of Mines remains extraordinary, and the support of alumni, friends and corporate partners is more robust than ever. However, we fully realize that the School must work hard to continue to earn such support. Hence, the Strategic Plan is just one representation of an ongoing process of continuous learning and improvement.

As higher education responds to challenges, Mines will play a prominent role in developing positive solutions. Working together we will fulfill our vision for the future of this great institution.

John U. Trefny
President, Colorado School of Mines

President’s Council Celebrates TWENTY YEARS of GIVING

The Mines President’s Council was founded 20 years ago on the principle that the School’s vital mission is best served when a dedicated community of alumni and friends remains intellectually and financially invested in the institution. For the past two decades the generosity and commitment of Mines supporters have more than validated this belief.

Colorado School of Mines would be a very different school without the extraordinary contributions of President’s Council members:

Council members have created 156 of the 190 endowed private scholarships making awards to Mines students this fall.

Eleven of the 20 endowed chairs and professorships at Mines are the product of President’s Council members’ gifts.

Annual philanthropic support from individuals to Mines has grown significantly, with slightly over $1 million in gifts recorded for the year prior to the founding of the President’s Council, compared with well over $11 million during the 2004 fiscal year.

All told, during the past 19 years 1,645 members of the President’s Council have provided over $115 million in support of the School. This sum represents more than 85 percent of all monetary gifts ever given to Mines by individuals.

To mark these TWENTY YEARS of GIVING, the School invites members, past and present, along with all Mines alumni and friends, to consider a special President’s Council gift.

“I would like to take this opportunity to encourage all Mines supporters to commemorate this milestone anniversary by rededicating your commitment to the School,” states President’s Council Chair, Harvey Klingensmith ’75. “My vision for the President’s Council during this upcoming year is one in which loyal members increase their support for the School, past members reconnect with Mines, and the ranks of first-time President’s Council members swell to record numbers. I hope all Mines alumni and friends share this vision and will help to make it a reality.”

In 1986 at the close of its inaugural year, Russell L. Wood ’49, the President’s Council’s first chair, noted that Council involvement had nourished a heightened sense of purpose and enthusiasm among the Mines community. He wrote that the Council had given Colorado School of Mines renewed confidence to meet the challenges that lay before it.

Twenty years later, the President’s Council still imparts this confidence to the School, its students, faculty, alumni and supporters. Strong participation in the President’s Council will ensure that Mines continues to flourish in the years ahead.

Colorado School of Mines recognizes alumni, parents, faculty, staff and friends who make annual contributions of $1,000 or greater through membership in the President’s Council. Gifts may be made in many forms, including cash, credit card or negotiable securities. Matching gift contributions are recognized and applied toward President’s Council membership. While the President’s Council places primary emphasis on unrestricted gifts, endowments and designated contributions qualify as well. For more information, contact the Office of Institutional Advancement, 303-273-3275.
Hannah Davey Becomes First National Champion in Mines History

By Greg Murphy, Sports Information Director

CSM has a rich history of athletics and junior Hannah Davey added to that history May 29 at the NCAA Division II Outdoor Track and Field Championships at Hilmer Lodge Stadium at Mount San Antonio College in California. It was there that Davey became the first female athlete and the first track and field athlete in School history to win a national championship when she won the 3,000-meter steeplechase in a School-record time of 10:33.72.

CSM has sponsored women’s athletics since the 1978-79 season and there are records for men’s sports, such as football, dating back to 1888. 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.

CSM Athletics

fall 2004
Building a Future

If it's a log cabin you want, Eric Williams BSc Eng '95 might be the man to see. "Designing and building with logs is a unique niche," says the co-vice president of GreatLand Log Homes in Gunnison, Colo. "In design, it's wood, wood, wood."

Williams, as a partner in the family business, has built a 700-square-foot cabin in Taylor Park, Colo., a 6,000 square-foot-home in Salida, Colo., and most sizes in between. In addition to local Colorado projects, his company has projects in Arizona, Texas, Massachusetts, Pennsylvania and Rhode Island as well. Recently, the company has also developed log home kits.

GreatLand Log Homes was founded by Eric's father in 1991. Williams worked at the family business during summers, gaining experience in design, drafting and carpentry. "Upon graduating, I wanted to get some 'real world' experience, which I felt would be good for me and would develop more depth to my experience and qualifications," he says. He worked at an engineering consulting firm in Vail, Colo., and another in Texas. But, he continues, "In 1997, I was beginning to feel a severe deprivation of the mountains, so I jumped on the opportunity to move back to Gunnison and join the family business. As partner and vice president, I have a large variety of responsibilities ranging from management to technical drawings. I received my Professional Engineering license in 2003, which has been a valuable asset and adds another level of credibility to our designs and projects."

Working with family has its plusses. "We generally have extremely open communication, which leads to an honest and very productive atmosphere," Williams notes. Of course there's always the threat of seeing too much of your loved ones. "But overall it's very rewarding."

Williams says his education has served him well. "Mines stresses hard work and quality in their curriculum, professors and classes," he says. "This prepares you in a significant way for future work – productivity, working with people, learning things you're not yet proficient in. Mines really cultivates professionalism and excellence. At Mines you learn how to learn and it stays with you for a lifetime, which is valuable because you never quit learning and improving."

Owning a small business requires a person to constantly expand one's knowledge. In addition to understanding wood, with its ability to lose or gain moisture with changing conditions, Williams has to understand and use concrete, stone masonry, steel, structural settling jacks, floating walls and more. "It's a challenging and rewarding career," he says.
1947 John P. Conmeh, BSc Min ’50 is retired in Colorado Springs, Colo.
1955 Horacio B. Ayano PEE is retired in Rizal Province, Philippines.
1958 Emmiun T. Kemp BSc is retired in Tucson, Ariz.
1959 Lanny G. Callih MSc is retired in Ocean View, N.J.
1963 C. Thomas Cano BSc is a financial advisor for US Financial Services Inc., in Carmel, Calif.
1966 J. Stephen Wagner PE is a manager of engineering for SK ingy Energy Company, Inc. in Dallas.
1968 Thomas S. Elliott PE is a chief operating officer with Rock Energy Partners in Houston.
1970 Harry J. Beach, Jr., BSc Geol, MSc ’72 is an independent consultant in Humble, Texas.
Gary J. Stebic BSc, MSc Min ’75 is president and owner of Stock Capital Advisors, Inc. in Centennial, Colo.
1971 Carlos E. Mateus BSc Pet is an independent consultant in Houston.
1972 Thomas F. Hamlyn BSc CPR is retired in Kharait, Ukraine.
1973 Don G. Hamley BSc Math is an independent consultant in Erie, Colo.
1974 William Chirnside BSc is retired from U.S. Geological Survey in Lakewood, Colo.
1975 Dan T. Rieden BSc Pet owns Daniel T. Rieden, PE, in Oklahoma City.
1977 Christopher C. Traeger BSc, BSc Geol is a geophysicist with Planar Expriments and Production in Los Angeles.
1978 Salvador Gonzalez BSc Met owns Spanish Interpreting of Colorado in Westminster.
1980 Lucien Smith BSc CPR married Fred Kelly April 20 in Kansas, Wash.
Catherine W. Wilds BSc Geol, MSc ’80 is a reservoir engineer for Shelt Corporation in Denver.
1984 John P. Conmeh, BSc Min ’50 is retired in Colorado Springs, Colo.
1987 Don G. Hamley BSc Math is an independent consultant in Erie, Colo.
1982 William Pincon MSc Geol, MSc Min Ec ’81 is president, CEO and on the board of directors of Reliant Ventures in Vancouver, B.C., Canada.
1986 Peter H. Kendrick BSc GP is co-president of Whiphaven Development LLC in Reno, Nev.
Patrick J. Jordaan MSc Ed is a research professor in the Center for Applications of Combustion in Space at CMU.
Timothy A. Hyatt BSc, MSc Met ’94 is a general manager of quality assurance for Integrated Products of Silverado Energy Corporation in Woodland, Calif.
1987 Dan BSc GP and Jill Kristian Donoho BSc CPR ’81 announce the birth of daughter, Jaclyn Danielle, Sept. 26, 2003. Jake joins big sister Victoria (Tori), 2. Dan is the managing partner of Donovan Oil & Gas Consultants LLC.
Troy A. Hoffer BSc Pet is a senior staff reservoir engineer for Pioneer Natural Resources in Dallas, Texas.
Steven R. Kinniovski BSc is an energy analyst for project development for Trimont Energy Services, Inc. in Houston.
1991 William L. Bahn BSc Ph, M Sc ’91 is a reservoir engineer for Black Forest Engineering in Colorado Springs, Colo.
Steen R. Kinniovski BSc is an energy analyst for project development for Trimont Energy Services, Inc. in Houston.
1992 Victor T. Massy BSc Eng is the project manager for Trinity Green in Wisconsin.
Penny J. Petitchet BSc Chem is a senior financial analyst for NatureWorks LLC in Decatur, Ill.
Gregory L. Griffin BSc Eng is an independent consultant in Erie, Colo.
1999 Jeffrey R. Quaratino BSc Eng is a structural engineer for Burns & McDonnell in Houston.
Monica Skalnik-Griffitt BSc CPR is an environmental project manager and a civil engineer with their US Army Corps of Engineers in Japan.
1999 Russell C. Hillard BSc Eng is an environmental consultant for SECOR International, Inc. in Golden, Colo.
Mary C. Grigg MSc Env Sc P.E., is a senior project manager/research associate at Science Applications International Corporation in Lakewood, Colo.
Michael G. Lindsey BSc Met is a general sales manager of bar products for the Chaparral Steel Co. in Midlothian, Texas.
Jennifer L. Switzer BSc CPR is an environmental project manager for the International Paper Company in Pine Bluff, Ark.
1994 Christopher B. Belchik BSc CPR is an associate engineer for Pioneer Natural Resources in Irving, Texas.
Kelly L. Belmont MSc Min Ec ’92 is a project manager for RMC Industries Corp. in Dearfield, Ga.
Jennifer R. Brown MSc Env Sc ’95 is an extruder manager for the Chaparral Steel Co. in Midlothian, Texas.
Catherine C. Bedwell BSc CPR is a environmental project manager for the University of Colorado in Boulder, Colo.
1996 Mariya Angelique Capito MSc is an environmental project manager for the University of Colorado in Boulder, Colo.
1997 Laurie T. Warren BSc CPR is an environmental project manager for the University of Colorado in Boulder, Colo.
Linda G. Balint BSc Min Ec ’98 is a project manager for Trinity Green in Wisconsin.
Lia G. Cahill Met E is an structural engineer for Burns & McDonnell in Houston.
Anna Maria Caputo BSc is a project engineer for the U.S. Army Corps of Engineers in Miami, Fla.
1999 John D. Vannos PE, MSc CPR, MSc Met ’96 is manager of technology solutions for Integrated Industrial Technologies in Denver.
2000 Marcus Lucazza BSc CPR is a geotechnical engineer for Commercial Applications of Materials Science and Technology in Irvine, Calif.
2001 Shelli L. Cormack BSc is a project manager for The Energy Conservation and Development Corporation in Orlando, Fla.
June L. Largent MSc Min Ec ’96 is manager of technology solutions for Integrated Industrial Technologies in Denver.
Mat ’88 and her husband, has been designated as one of only two CompA A+ Authorized Service Centers serving Southern Colorado and was named Best Computer Store by The Gazette in its 10th annual “Best of the Colorado” Springs’ section.

Scott A. Goodwin Jr., BSc Pet is a petroleum engineer for the Questar Corporation in Denver. Eleonora A. Latin-Stevens MSc Min Ec is a planning engineer for Occidental of Elk Hills Inc. in Tupman, Calif. and has completed her dissertation as an undergraduate in industrial relations for the Newmont Mining Corporation in Boulder, Colo. Jennifer Swanson Professional Architect is a math teacher for IEEE-Comp Sci at Bear Creek High School in Littleton, Colo. and her husband, has been a captain and weapons officer in the U.S. Air Force at Edwards AFB, Calif. and is a materials and process engineer for Freescale Technologies in Atlanta, Ga.

Robert G. Benson PhD Geol is a project engineer for Edward Kraemer & Sons in Denver. He is an administrative assistant for Polyminex, Inc. in Midas, Nev. and serves with the 1st Infantry Developmental Engineer in the U.S. Army at Edwards AFB, Calif. and is an administrative assistant for the Lockheed Martin Corporation in Colorado Springs, Colo.

Roy E. Pfaltzgraff III BSc Math is a PhD student at Aerospace. He is an engineer for Saudi Aramco in Alkhobar, Saudi Arabia. Michael H. Benfield Jr. BSc Eng is a software engineer for Quantum PM in Littleton, Colo. Ryan T. Allaire BSc Eng is a senior systems engineer for Tensar Earth Technologies in Atlanta, Ga. and is a mechanical engineer for Baker Hughes Inteq in Westminster, Colo.

Diana M. Light BSc Eng is a planning engineer for the City of Broomfield. She is an administrative assistant for Polyminex, Inc. in Midas, Nev. and serves with the 1st Infantry Developmental Engineer in the U.S. Army at Edwards AFB, Calif. and is an administrative assistant for the Lockheed Martin Corporation in Colorado Springs, Colo.

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At home in Indiana after a long illness. He was 84. After graduation, Buhler worked for Alcoa until the summer of 1944 when he joined the Navy, receiving his commission until December 1945. In April 1946, he joined Kaiser Aluminum in Spokane, Wash., where he spent more than 25 years in supervisory and management positions. In 1974, Buhler became vice president of international trading for Gulf Oil until he retired to California in 1979. The next 24 years he raised Arabian race horses, producing several winners. Buhler is survived by his widow, Maxine, four children, 12 grandchildren and nine great-grandchildren.

KENNETH E. LINS "MET E '40

Johnson is survived by his mother, two family gathered for his funeral service. In his late grandparents on Eastern Long

Douglas Johnson BS, Math 71 died April 20 after a two-year battle with multiple myeloma. He was 55. Johnson first saw CSM on a trip out west when his parents moved to New Jersey. He graduated from the University of Kentucky in 1974, and in 1976, he joined the Navy as an ensign until 1979. During his time in the Navy, he served as a part of the commissioned officers of the U.S. Navy, where he worked on various ships around the world. Johnson was also a member of the National Society of Professional Engineers, Illinois Society of Professional Engineers, Society of Mining Engineers of the American Institute of Mining and Metallurgical Engineers, Rock Valley Coal Mining Institute and was corporate vice president of Geo International. He was also a Kentucky colonel and a member of the Kappa Sigma fraternity. Lindsay is survived by his widow, five sons, 13 step-grandchildren and one step-great-grandchild.

Charles J. Marquardt Geopol E '54 died June 27 in Sugar Land, Texas. He was 71. For 25 years, Marquardt worked for Drilling Exploration and its predecessor, Sun Oil. He and a partner also ran their own company for several years. He was a member of the American Association of Petroleum Geologists. Marquardt's life passion was cruising around the world. He took 29 cruises in 22 years and visited all seven continents. Marquardt was preceded in death by his wife of 47 years, Marjorie Love Marquardt. He is survived by a son, a daughter, five grandchildren, a brother and many nieces and nephews.

Delbert F. Tolen PRE '57 died June 25 in Grand Junction, Colo., at age 73. He grew up in Indiana, but in 1948, he moved to Montezuma, Colo., where he worked at Climax and other mines. From then on, he considered Colorado home. Tolen joined the Army in 1951 and served in the Korean War in the 5th Regimental Combat Team. He received the Purple Heart and Silver Star. After he was discharged, he returned to Colorado, where he met and married Alice Mar Berg. Tolen worked at various refineries throughout his career in Colorado and other states. He was a member of Breckenridge Masons Lodge #47, CSM Alumni Association and the Elks Lodge. He recently attended reunions of two Korean War Veterans organizations: the 5th Regiment and the Outpost Harry Survivors Group, and was awarded the St. Maurice Medal for Valor for his actions at Outpost Harry in Korea. Tolen had a lifelong love of the outdoors and the Colorado mountains and an abiding interest in mining and geology. He also loved history and was particularly interested in the Civil War. He enjoyed reading, thinking deeply on many things and loved vigorous discussion. Tolen is survived by his widow, five sons, 13 grandchildren and two great-grandchildren.

A Bob Hope Christmas Remembered

Les Bond Geol E '59

At Christmas 1950, the country was at war in Korea and I was a 19-year-old U.S. Navy aviation radioman third class stationed in the Aleutian Islands, Alaska. Our aviation unit was supporting the C.T.&E. and the coal industry. He was a Registered American citizen in 1950. He was a Registered Professional Engineer in nine states. He joined Commercial Testing and Engineering in 1948 and advanced through its offices in Indiana, West Virginia and Ohio before becoming president in 1967 in Chicago. He had 35 years of devoted service to C.T.&E. and the coal industry. Lindsay was a member of the National Society of Professional Engineers, Illinois Society of Professional Engineers, Society of Mining Engineers of the American Institute of Mining and Metallurgical Engineers, Rock Mountain Coal Mining Institute and was corporate vice president of Geo International. He was also a Kentucky colonel and a member of the Kappa Sigma fraternity. Lindsay is survived by his widow, five sons, 13 step-grandchildren and one step-great-grandchild.

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The putt was successful in September.

More than 2,500 students, faculty and staff attended the annual back-to-school event.