Continuing a Tradition

Commencement 1990
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EDTORS CORNER

About a year ago a grassroots movement among the faculty resulted in a vote of no confidence in the administration. Three vice presidents and one dean left their positions, and throughout last summer faculty and administrators met to communicate and air differences. In the November 1989 issue of Mines Magazine we reviewed last year's events and called for some two-way communication, listening and patience on everyone's part. We also said the Board of Trustees, who have been included in faculty and administration discussions, must take an active role in resolving disputes. So what has changed in a year's time?

At the last faculty meeting of the academic year Dr. James Brown, physics professor and president of the Faculty Senate, gave a "State of Mines" address to his colleagues and school administration. He cited the many changes and turmoil in the last year, and recognized the ongoing reorganization on campus. He stressed the importance of two-way communication between faculty and the Board of Trustees; representatives of the Faculty Senate and trustees have met twice, and both groups worked together at the annual Board of Trustees conference in June where the discussion focused on how the Alumni Association Board, visiting committees, Faculty Senate and department heads interact with one another and the institution as a whole.

Regarding the accomplishments of the Senate during the past year, Brown listed renewing the annual performance evaluation and teaching evaluation processes; approving a non-thesis master's degree; revising the requirements for a minor from 12 to 18 hours; establishing the Faculty Senate Distinguished Lecturer (see page 30); and developing CSM Quarterly.

Issues that remain to be resolved include participating in establishing budget priorities, and solving the problem of overall levels of salaries at Mines compared to those at peer institutions as well as intra-school salary equity.

It's hard to give a final assessment of everything that continues to evolve, but Brown did say that a great deal of effort has been invested to understand and clarify issues which surfaced in the confidence vote last spring. The full import of this information, especially a faculty morale profile, is still unknown. One thing is clear from a survey of faculty—they are positive about their colleagues, students, departments and curriculum even though there may still be several problems to resolve with the president and the administrative reorganization.

"CSM's fine reputation as a scientific and engineering school is based upon its faculty and students—past and present. They are still the foundation for the school's future," Brown said. As alumni we have a responsibility to keep interested and keep the constituencies on campus talking to one another. Mines needs a supportive, and committed, group of alumni as it continues to work out its differences.

Launching a Partnership:

MINES & IBM OPEN A CENTER FOR EXPLORATION GEOSCIENCE COMPUTING

"Just as the individual earth science disciplines can no longer afford to isolate themselves from each other, so there must be a new sense of partnership between the universities and the exploration industry. The university has a special responsibility to provide people prepared to work in this new world of exploration, and the industry must provide the environment and the specialized tools needed for these people to work more effectively. No longer can either of these efforts proceed in isolation from each other."

by Ellen Glover

Dr. Phil Romig (right)
The initial effort is the result of the combined efforts of the best exploration professionals. This is the current state of affairs for geologists and geophysical and geological engineers, so they are going to have to engineer solutions. Tremendously high risks can be offset with more recently acquired data when it comes to finding resources, predicting and management. Romig attributes the confusion in using and interpreting earth resources data to discipline fragmentation: technical contributions from geologists, geophysicists, geoscientists, petroleum and mining engineers and other scientists and engineers have remained isolated rather than integrated. Each discipline has developed its own culture, vocabulary, turf, preoccupation with particular aspects of the exploration process, and even barriers to the other disciplines. Experts in the various fields have developed different information bases and incompatible applications of the available technologies. Unfortunately, there has been little attempt to compare diverse data sets to identify consistencies or conflicts, Romig said.

Romig returned to the analogy of the Library of Congress: "The human mind can visualize 100 million bytes of information while the amount of data facing explorationists is 100,000 times as much. Even when relevant data sets are available, the environments are unable to present or portray information so that an explorationist can absorb, interpret, and make predictions and decisions," he explained.

The Global Problem

Both Romig and Adams say the need to feed and house a burgeoning global population and the demands for increased standards of living in developing countries are placing growing pressures on the earth’s resources. "Increased mechanization and fertilization of agricultural land are requiring more energy, phosphates and hydrocarbons. Water is becoming increasingly valuable. Growth of the international industrial base is creating yet more demand for energy and minerals. As population density increases, the potential impact of geologic hazards is becoming more severe. Finally, the toxicity of our waste products is threatening our access to many resources," Romig explained.

At the same time, resources are becoming more difficult to find. Adams says we have used all our "cheap shots", and found most of the easily discovered resources. "Now explorationists will have to be better at finding remaining resources, using much better predictive models. The rules have changed for exploration geologists and geophysical engineers, so they are going to have to engineer scientific solutions much like other engineers solve problems. Tremendously high risks can be offset with more recently acquired data when it comes to finding resources, predicting geological and environmental problems," he said.

Both Romig and Adams described today’s explorationists as someone looking for smaller, deeper, and harder-to-find deposits. In addition, environmental concerns create further challenges. For example, in the future, explorationists may be required to demonstrate economic viability and environmental safety before they are allowed to drill a hole.

"VIP"—Visualization, Interpretation and Prediction

The goal then, according to Adams, is better use of existing data for a complete, integrated exploration program. Adams and Romig are using the acronym "VIP" (visualization, interpretation and prediction) to describe how the Center will approach a more cohesive method of data acquisition and management.

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Computing Capability Revolutionizing Information Management

Until now, the computing capability required to manage and manipulate much this data did not exist. According to Dr. Sam Adams, the workstations provided by IBM will provide an opportunity to be more systematic in data acquisition, management and manipulation and interpretation. "IBM can help the Center and the School of Mines by processing numerical data; helping to develop new, more rigorous exploration methods; and finding a means to work with typical geological data, the existing, non-numerical data. Hopefully we can use computers to help "translate" geological, geological and engineering information into one language understandable by all disciplines," Adams concluded.

Why CSM?

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Why CSM?

The Colorado School of Mines has launched the Center of Exploration Geoscience Computing which will integrate state-of-the-art computer technology with CSM’s expertise in exploration geoscience, petroleum engineering and mining. IBM’s technology and solutions development organization has provided CSM with a network of advanced workstations valued at $1.7 million to facilitate Center activities. Through the timely synthesis of advanced computing and a vast geoscience knowledge base, the Center for Exploration Geoscience Computing will create a multidisciplinary environment for progress and growth in the earth resources industries.

Technology for the 21st Century

Dr. Phillip R. Romig, Department of Geology and Director of the Center, is philosophical on how
Ronig, Adams, other faculty and graduate students, computing center and the IBM personnel on campus are like weavers sitting at a huge loom, ready to weave thousands of threads of data together to form a clearer geologic pattern of Earth. The new Center will help combine the threads of information so people can make some new intuitive judgments and close gaps between kinds of data. It only remains to be seen what kind of student will emerge from CSM with this kind of advanced training.

"Our ultimate goal is a true three-way, collaborative, intellectual partnership between the university community, the computing industry and the resource industries. By announcing this joint initiative by CSM and IBM, we are taking the first step in completing the triangle. We have identified seven segments of the exploration industry that have different needs and interests, and we are committing the Center to working with each of those industry groups to develop programs that best meet their needs," he said. (See sidebar on "Projects," previous page.)

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LISA EDINGTON ‘83

Lis Edington looks completely at home in the middle of Denver’s worst interstate highway interchange. As she surveys the busy urban area she notes the reconstruction is progressing well—just as her design called for in computer-generated plans. A 1983 graduate of Mines, Edington has adapted well to her new found field of highway engineering.

Options in Engineering

Lisa says Mines graduates probably don’t view highway construction as an option in their professional future. She is not presented as one. She says while she was a geophysics major everything is not presented as one. She says while she was a geophysics major everything was geared as if she would actually be working in the geophysical field, but was never any other option. At the time I graduated, it would have been really helpful if I had been told of the possibilities in geotechnical engineering because the geophysics market died in 1983. There just weren’t any jobs, especially not if you were female or if you were looking to work in a specific part of the country,” she said.

“Spent six months talking to every single company in Denver. Didn’t like any company in the telephone book that had anything to do with geophysics or oil and gas and nobody was hiring. I was told to find a friend who had a mining engineering graduate looking for work in Denver took a job with the Highway Department and suggested I do the same,” she explains.

The job turned out well for Lisa; she thinks Mines needs to stress options to students. “When I was there if you didn’t want to do a career specific to mining, it would have been really hard to get a job in your degree you were a failure. That was very hard for me because I thought I had done a good job at Mines, and not to be able to find a job in geophysics at that time was a real blow; nobody could give me alternate suggestions. You didn’t really have a chance to interview with other companies, alternate careers weren’t presented.”

Lisa feels the rest of a Mines education is so geared toward making one a well-rounded engineer that the problem is more a function of education rather than experience. As a highway engineer in roadway design, she sums up her feelings about her job.

“Never there is a chance to be bored. If anything, a project lasts a year to a year-and-a-half at the most, from the time you begin the pre-design to the time it is advertised for bids. For a project to last much longer than that is unusual. Sometimes it is a real frustrating job because of the frequent changes you encounter on a project, but I enjoy being challenged.”

Complete the equation. Management skills are absolutely necessary for patients, etc., rather think of themselves as intellectual professionals who have engineering backgrounds. Throw in some mathematics, science and technology, and in addition to use of bioengineering principles.

The inclusion of behavioral science, psychology and artistic input complete the equation. Management skills are absolutely necessary for patient and office management. The skills of engineering project management will aid the health professional in being able to apply their skills in many areas.

Thanks for the opportunity to offer my thoughts.

Very truly yours, Stuart E. Bennett DDS ’66

Dear Ellen:

Upon graduating Mines in 1960, I went to work for Bethlehem Steel Corporation for 9½ years in their Los Angeles plant, I started in the metallurgical department and progressed to assistant plant general manager when I left in 1970 to embark upon a new career in the wholesale meat packing business. In 1976 I formed and operated my own company which grew substantially and permitted me the realization of many personal objectives to the point where I am now able to consider other possible alternate ventures for the 1990s.

Although I have changed my profession and maintain little contact with the mineral engineering industries, Mines prepared us to serve, I can attest, however, that my decision to attend
Mines was one of the most important warm memories. Close relationships only a school like and influential decisions in my life. No Island and was commissioned an en-

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tected the challenge and moved to
time in Minot, North Dakota. We were later we were interviewed by McDon­

10

Dear Ms. Gloves:

Mines (1960), I enlisted in the U.S.

Dear Ellen:

It was while working in Florida that

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The Mines Magazine • June/July 1996

The Mines Magazine • June/July 1990

11
Dear Ms. Glover,

I can’t say I’ve changed careers as I started Navy Officer Candidate and Flight School two weeks after graduating from Mines in December 1976 and have been in aviation ever since. I liked engineering, but also wanted to fly and since military flight schools are very age limited, I decided to try that first and return to engineering later.

After eight years of active duty as a navy pilot, I looked at going into engineering, but at that point, with my experience, there were many more opportunities in aviation than engineering.

I enlisted in the Colorado National Guard and continued to help out on the family ranch located in northwest Colorado. Although I considered applying for a job in oil and gas or the mining industry several different times, the desire to work in the ranching business always remained. The ranching life is very hard physical work, yet very enjoyable and rewarding. My wife, Phyllis, and I have two daughters: Lindsey (age 8) and Michelle (age 5). We are actively involved in the Christian Church of Craig, Colorado.

Once again, thank you for your inquiry about my career.

Sincerely yours,

Don Myers '71

Dear Ms. Glover:

Thank you for asking me to be included in your alternate careers article. I am happy to furnish you with some personal information and comments concerning my Mines degree.

After graduating from Mines in 1971, I enlisted in the Colorado National Guard and continued to help out on the family ranch located in northwest Colorado. Although I considered applying for a job in oil and gas or the mining industry several different times, the desire to work in the ranching business always remained.

The ranching life is very hard physical work, yet very enjoyable and rewarding. My wife, Phyllis, and I have two daughters: Lindsey (age 8) and Michelle (age 5). We are actively involved in the Christian Church of Craig, Colorado.

Sincerely yours,

Jerry Evans '76

Dear Mr. Glover,

I say “can’t” because I started my career as a mechanical engineer and have been working in the oil and gas industry ever since. After graduating from Mines in 1958, I worked for several companies and have been involved in the development of oil and gas fields in many areas around the world.

One of the most rewarding aspects of my career has been the opportunity to work on large-scale projects that have had a significant impact on the development of new oil and gas fields. I have had the chance to work with some of the best engineers in the industry and have been able to learn from their experiences.

In addition to my work in the oil and gas industry, I have also been involved in a number of other activities. I have served on the board of directors for several oil and gas companies and have been a member of several professional organizations.

I have enjoyed my career and feel very fortunate to have had the opportunity to work in such a challenging and rewarding field.

Sincerely yours,

Richard Mandel, Jr. '53

The Mines Magazine • June/July 1990
More than 500 alumni and guests returned to the Colorado School of Mines campus for Reunion Weekend 1990. This excellent return is a direct result of the many hours spent preparing for the reunion by the various class agents and their reunion committee members.

Art Dickinson, CLASS OF 1959, started planning for his about ideas for the CLASS OF 1955's 40th reunion in 1995! Thirty-one members of the CLASS OF 1960 returned for their class reunion. This ties a record with the CLASS OF 1960 for the highest participation rate by a thirty-year class reunion—24 percent. Coordinated by Jack Hampton, the class banquet was a fun event with 60 alumni and guests attending.

Eleven Reunion Classes Invited Back for Reunion Weekend

by Mary Jo Giddings, Associate Director, Alumni Services

Responding to Greg Chlumsky's letter of invitation, 19 classmates attended the 20th reunion of the CLASS OF 1970, three times the number that attended the 15th reunion. Howard Parker II of Annapolis, Maryland, came the farthest. Steve Schwochow was the master of ceremonies for the 52 alumni and guests at the class dinner.

Because of the influence of World War II, the classes that graduated in 1945 and 1946 were very small. Of the 16 members that graduated in 1945, only Enrique J. Ruiz-Williams was able to participate in reunion activities. He returned for the Saturday night ALumni Banquet and we were so pleased to have him join us.

The CLASS OF 1965 had a great time celebrating their 25th reunion as 26 class members (19 percent) returned to Golden. Cutting the farthest was Porter Knowles from Boca Raton, Florida. In his letter of invitation to the class, coordinator Frank "Buzz" Erisman asked them to come to their class dinner prepared to give their "best story about a CSU prof" or their "best tellable story about a classmate." Gary Gantner and Bob Bardsley were prepared to act as judges at the dinner which was attended by 54 alumni and guests.

Though the CLASS OF 1975 had a small turnout of 12 class members for their 15th reunion, we expect that number will increase for their next reunion. Carl Cross wrote the reunion letter of invitation and Ron Cattany handled the program at the class banquet. Interestingly, this was the only class where all the guests were from Colorado.

Between Steven J. Smith's letter of invitation and Chris Oglesby's strong efforts as class gift coordinator, the CLASS OF 1980 set a record attendance with 40 members (10 percent) of the class returning for their 10-year reunion. Classmates came from all over including James Ferguson from Anchorage and Tim Barbari from Baltimore. John Gould acted as master of ceremonies at the class dinner of 66 alumni and guests.

The CLASS OF 1930 had a participation rate of 38 percent for their 60th class reunion—a record high! Tom Manhart of Topeka, Oklahoma, coordinated the reunion and was pleased where he was joined by Barney Boersen from Denver, Bill Briscoe from Emeryville, California, Bart De Laat of Houston and Joe Maxwell from Long Beach, California.

(continued on page 37)
Commencement and Reunions 1990

E.R. "Gene" Douglass, of Amarillo, Texas, second from right, received a surprise visit during his 40th reunion at Mines. Two of his three sons (all Mines grads) "dropped in" to celebrate with their father. From left to right, Ken Douglass, CPR '74 of Texas, Jane and Gene Douglass, and Russ Douglass, P.E. '73 of Anchorage, Alaska. Absent was son, Stephen, P.E. '70, of Amarillo, Texas.

James A. Kovats poses happily with his family following graduation. He received a degree in geophysical engineering.

van Diest Gold Medal

Elizabeth L. Robinson, left, received the van Diest Gold Medal which is awarded to alumni in their fifth to fifteenth year after graduation and commemorates outstanding contributions to the field of mineral engineering. With her at a luncheon following commencement were Dr. John Emerick of the Environmental Sciences and Engineering Ecology Department and Mary Ansell, Robinson, who earned her PhD in mineral economics at Mines in 1983, is currently a vice president at J.P. Morgan, a leading firm in international banking.

Retiring Professors recognized

Four professors at Mines have announced their retirement and were recognized during graduation: Dr. Ray Blaque, professor emeritus of chemistry; Dr. Harry Kent, professor emeritus of geology; Dr. Franklin Sternole, professor emeritus of mineral economics, and absent from the picture, Dr. Karl Newman, professor emeritus of geology.

A future Mines student (Willie Jacoby III, Louisville, Kentucky) gets a hug from his uncle, Jeffrey J. Jacoby, BSc. Mining.

A member of the next senior class: his badge reads "365 days and counting."
Three members of the Elkins family have received the Colorado School of Mines Distinguished Achievement Medal (from left to right): Lloyd E. Elkins, Sr., P.E. '34, Medalist 1961; Lincoln E. Elkins, P.E. '40, Medalist 1965 and Lloyd E. Elkins, Jr., P.E. '85, Medalist 1990.

Lloyd E. Elkins, Sr. graduated from Mines in 1934 and began work with AMOCO as a roughneck. He eventually became production research director and manager of research at AMOCO research center in Tulsa, Oklahoma. Elkins, with nearly four decades of experience in petroleum research and engineering, retired from AMOCO Production Company in 1977 after over 30 years of service. After retirement in 1977 he served as a petroleum consultant in both the research and the operational phases of reservoir engineering for oil and gas recovery.

His numerous honors in the professional and academic areas reflect his valuable contributions to the petroleum industry. Some of his honors include: Society of Petroleum Engineers (SPE) Distinguished Achievement Medal (1959); president of American Institute of Mining, Metallurgical and Petroleum Engineers (AIME) (1962); AIME Honorary Membership, the society's highest award (1963); American Academy of Achievement Golden Plate Award; Distinguished Lecturer for the Society of Petroleum Engineers of AIME; National Academy of Engineering; Colorado School of Mines Distinguished Achievement Medal (1963); Member, Tau Beta Pi, Sigma Gamma Epsilon, Pi Epsilon Tau.

Lloyd and his wife, Virginia, live in Tulsa, Oklahoma. Lincoln F. Elkins, a 1940 graduate of Mines, also received the prestigious AIME honorary membership award (1978). He was honored for his many significant contributions in the field of reservoir engineering which have led to increased recovery of petroleum and for his dedicated service to the Society of Petroleum Engineers. He graduated from CSM in 1965 with a degree in petroleum engineering. He began his professional career as a development engineer with Chevron USA. His professional memberships include: Society of Petroleum Engineers, American Petroleum Institute and the World Trade Club.

A native of Tulsa, Oklahoma, Elkins lives in Alamo, California, with his wife, Judd. They have two children. (Photo by Ellen Glover)
Record Breaking Reunion Class Gifts Presented on Reunion Weekend

By Laura Robinson, Mines Alumni Fund Director

This year more than $478,000 was generated by alumni through the reunion class gift effort. This all time record represents gifts, pledges and matching gifts generated by the individuals in the 11 returning reunion classes. The outstanding success of the Class of 1950 highlighted the weekend as the class presented the school with a facsimile check representing their gift of $201,000, the largest any class has given to Mines.

At the All Alumni Banquet on the final evening of reunion weekend, representatives from each of the returning classes presented President George S. Ansell with a facsimile check representing their class gift. The success of all of the classes can be attributed to the hard work of the reunion class volunteers. Classes rallied together in a year-long effort to contact classmates and encourage their participation in the effort to give something back to Mines.

The climax of the reunion gift presentations came when Stewart Collester and Art Dickinson presented the 40th Reunion gift of $201,000 from the Class of 1950. Throughout the year the "Nifty-Fifty" planning committee met to work on the planning for the week-end as well as the class gifts. Members of the committee included Lawrence Bennett, Tyler Brinley, Lynn Brown, E.R. "Gene" Douglass, Walter Forbes, Dennis Gregg, Niles Gravenose, Charles Irish, John "Jamie" Jameson, Charles Melbye, Art Meyer, Murphy, John Newhofner, Joseph Shof and Ed Warren.

Not to be outdone, the Class of 1940 set a 50th reunion record, raising $109,465 in gifts and $14,150 in matching gifts and pledges, for a total of $123,615. This class had the largest percentage of its classmates participating at 67 percent.

The Class of 1965, celebrating its 25th reunion, raised $18,885 in gifts and pledges. This represents matching gifts of $6,965 and non-matching gifts of $11,920. Class giving more than doubled in this reunion year thanks to the efforts of Rob Bart, Ray Crayon, Michael Cruzon, R. Frankline "Buzz" Edman, Lloyd Ellis, Je. Gary Gannett, William Wilson and George Wood. Stephen Schwartz led the Class of 1970 gift effort which raised $18,654 in honor of the 20th anniversary of their graduation from Mines. This total, $15,695 in gifts and pledges and $2,350 in matching gifts were generated. Included in the reunion gift total was a special memorial gift for Steve's classmate and college roommate, James Kolom, who passed away earlier in the year. Mrs. Frances Kolom, Jim's widow, plans to establish a memorial scholarship fund to honor his legacy and loyalty to Mines. Also instrumental in the gift effort were classmates William Pearson, Catherine Shokan, Craig Horner, William Dines and Kirk Kell.

The Class of 1976 gift was presented by Carl Cross for $6,614 including gifts and pledges of $4,109 and matching gifts totaling $2,505. Also instrumental in this gift effort were Richard Bobian, Donald Cargill, and Dwayne Hall.

A particularly strong effort was launched by Chris Oglesby, Class of 1980, to raise the largest gift by a tenth reunion class. More than $16,110 was generated by the class through gifts, pledges and matching gifts. Of that total, $8,328 was in gifts and pledges and $7,785 in matching gifts were generated. The reunion classes were thanked by President Ansell after the class volunteers presented their checks. President Ansell went on to emphasize the growing importance of these gifts to the school.

If you would like to become involved in your reunion class gift effort next year or in the future, please call the Mines Alumni Fund office at 1-800-466-9488 ext. 3138, or 273-3138 in Colorado.

The Mines Magazine • June/July 1990

COMMENCEMENT AND REUNIONS 1990

COMMENCEMENT CEREMONY

Colorado School of Mines honored more than 280 graduates, including 196 bachelor's, 64 master's, 21 doctoral and five professional degree students, at its 116th Commencement Ceremony, May 11. Forty students received academic honors and awards. The outdoor ceremony was held at CSM's Meyer Commons in Golden.

Dr. Thomas E. Everhart, president of the California Institute of Technology, delivered the commencement address. A national spokesman on science and technology, Everhart has served as chancellor at the University of Illinois-Urbana, dean of engineering at Cornell University, and spent more than 20 years teaching electrical engineering and computer science at the University of California-Berkeley.

Everhart, along with Ralph L. Hennebach and Milton E. Wadsworth, were presented with an honorary doctorate of engineering at the ceremony.

A 1941 CSM graduate in metallurgy, Hennebach is retired chairman of the board and chief executive officer at Assico, Inc., a leading company in the metal production industry. Wadsworth is dean of the College of Mines and Earth Sciences at the University of Utah.

CSM also awarded distinguished achievement medals to five outstanding alumni. Recipients were Robert F. Burford (G.M. 1944), retired director of the Bureau of Land Management; Lloyd E. Elliott, Jr. (P.E. 1905), vice president of Chevron Corporation; F. Stewart Money (Geol. E. 1950), president of Cyprus Minerals Company; Jack L. Rivkin (Met. E. 1962), senior executive vice president of Shawinigan Hutton; and William H. Ericsson (P.E. 1947), a justice of the Supreme Court of Colorado.

CSM Professor of Geological Engineering Robert Weitner received the George R. Brown Medal for engineering education (see related story), and alumna Elizabeth L. Robinson (Ph.D. Min. Econ. 1963), a vice president at J.P. Morgan, was honored with the van der Steer Gold Medal for professional achievements in mineral engineering.

The program also included remarks by CSM President George S. Ansell, awards to members of the CSM Class of 1940 and recognition of retiring faculty. Commencement was preceded by the ROTC Military Commissioning Ceremony in the Green Center.
CALLING ALL DENVER SECTIONS:

PLAY BALL!

ALUMNI NIGHT WITH THE DENVER ZEPHYRS
Saturday, August 25, 1990
Mile High Stadium
Game time 6:45 p.m.

Join us as the Zephyrs battle the Iowa Cubs, farm team of the Chicago Cubs. Bring the whole family!

Reserved tickets $5.00
(14.00 if over 60 or under 14 years old)
Free CSM pennant to first 50 alumni who make reservations.
Call 303-273-3990 for additional information.

by Mary Jo Giddings, Associate Director, Alumni Services

PHOENIX

The Phoenix section had such a good response to their first meeting in January, that Dick Richards '62, called "Phoenix Connection," planned a sec-
tion dinner meeting for February 13. Eleven alumni and guests attended in-
cluding Richard Ackermann '75; Ronald W. Cliffen '65; Bob Connitock '61; Hank George '62; Alfred A. Lee '66; Frank Long '85; Kenneth H. Matheson, Jr. '48; Gordon Miner '48; Tony Shag '59; and Hugh F. Templeton '35. If you would like more information about this new section, call Dick at work, (602) 457-3757 or at home, (602) 468-0817.

FOUR CORNERS

T. Greg Merriam '80, new president of the Four Corners Section, writes us about the great turnout at their February 24 alumni dinner at the San Juan Country Club. As part of the evening's program, T. Greg, showed the CSM rebuilding of the "M". The Phoenix section had such a good response to the section's first meeting in January that Dick Richards '62, called "Phoenix Connection," planned a section dinner meeting for February 13.

DOWNTOWN DENVER

Nineteen alumni and guests met for breakfast March 20 at the Holiday Inn Downtown. Frank Schowengerdt, CSM vice president for academic affairs, was the speaker. In addition to co-directors Chris Oglesby '80 and Steve Sonnenberg '80, other alumni included Douglas Carlson '84; Marshall Couch '77; Tom Davis '74; Gary Hutchinson '82; Roger Hutson '82; Kent Jenkins '80; Sasha Karpov '80; John Lockridge '52; Mike Loeb '51; Logan MacMillan '75; and Art Panse '63. CSM staff members, Ann Fay, Dave Powers and Jennifer White, and alumni staff members, Mary Jo Giddings and Norm Zehr '52, also attended.

RENO

Jim Bright '52, coordinator for the Reno section, called to say that an in-
promptu section breakfast meeting was held at John Ascorg's Nugget in Reno on April 6 in conjunction with the Great Basin Symposium sponsored by Geological Society of Nevada and U.S. Geological Survey. FIFTY-THREE alumni and guests attended with Jim and Dick Keimbier '70 as hosts and speakers. A super response, Jim! We hope you will do this again.

BONE VALLEY

"April 8 in the woods of Central Florida was a great day for the Bone
Valley Section," writes Judge Holmas '60, coordinator of their Sunday barbecue at CF Industries Ranch.

"About 60 alumni and friends came to our first-ever meeting and talked and talked. The wild game dinner was well received by the remarkably game crowd. "Hermann Hofmann '50 claims to have come the greatest distance, as Maimi is about 300 miles from the ranch. Harold Bloom '51 had the most fun, continually trying to leave and never quite exhausting all opportunities to visit some more."

DENVER WEST

Eighteen alumni and guests met at the Sheraton Hotel, Thursday, April 19, to hear Dr. Barbara Olds, associate professor of the University of Colorado School of Journalism, speak to the group about the EPICS program, give an overview of the EPICS program. She was assisted by Ron Miller, research associate professor in the Chemical Engineering and Petroleum Refining Department who also teaches EPICS. Bob Todd '90, graduating senior and president of Blue Key, spoke to the group about the rebuilding of the "M".

CRUSON AND PANZIE GEOLOGISTS

Julie and Glen Oswald '79; Laurie and Bob Parks '79; Edmund Petersen '75; Sandra and Brian Seger '84; Carolyn and Ted Smith '61; Dan Neerkap '68; and "D.A." (Mrs. Dick) Wendeborn. We are so pleased that this new alumni section has been formed and thank Judge and his committee for get-
ting it started. If you live in the Lake-
land area and wish to get involved, call one of the committee members and let them know you are interested. Holmes 813/334-3811; Akins 813/534-7161; Ham-
mitt 813/246-5061; Schowengerdt 813/ 
535-8182 or Wendeborn 813/481-8504.

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The Mines Magazine • June/July 1990

The Mines Magazine • June/July 1990
American Mines Handbook 1990

The first edition of the American Mines Handbook is the most comprehensive compilation of "who's who" in the mining and mineral processing industry in the United States ever assembled. This directory is a concise and factual guide to over 800 companies currently involved in the U.S. industry, and, as well, it details the major projects of U.S. companies abroad. At a time when American mining is the search for gold primarily in the western states, which encompasses the prolific Carlin Trend in Nevada, an area which ranks one day alone could surpass Canada in gold production.

While the current boom is gold oriented, base metal prices are on the upswing, resulting in increased exploration and resumed production. All-in-all, the United States holds opportunities for the mining company and investor alike; hence this American Mines Handbook. This publication continues the 74-year tradition of quality and excellence in the field of mineral resource publishing for which its publisher Northern Miner Press Limited is renowned.

As with its sister publication, the Canadian Mines Handbook, the main company section provides a detailed overview on each individual company. Each company listing includes head office address and telephone number, stock exchange listing and symbol, directors and officers, capitalization, properties, reserves, production, land holdings, long-term debt, earnings and financials.

The American Mines Handbook contains additional sections on producing mines and their personnel, government departments and agencies, smelters and refiners, world gold production figures and metal prices. A chart detailing United States-Canada mineral and metal tariffs is placed in perspective. Other areas totally lacking in microseismicity, such as the Great Lakes, Florida, and central Canada are obvious.

The Seismicity Map of North America is available through: The Geological Society of America, P.O. Box 9140, Boulder, Colorado 80301. For more information call RockWare, Inc. (303) 423-5645 Fax: (303) 423-6171 4251 Kipling St., #595 80033

Seismicity Map of North America illustrates the epicentral locations of all significant earthquakes of M 4 to M 8 known to have occurred from the years 1534 to 1985. The map region is divided into four quadrants maps, each at scale of 1:5,000,000 (80 miles per inch or 50 kilometers per centimeter), and each with 35° by 45° border dimensions. This publication is one of many in the DNGF (Decade of North American Geology) series of the Geological Society of America, and it should be a useful companion to the upcoming DNGF volume entitled "Neotectonics of North America".

Many thousands of earthquakes are located on the seismicity map. Magnitudes of less than four are indicated by small dots with larger magnitudes indicated by larger dots and great earthquakes (M7) by large black rings. Different colors distinguish between modern versus historic earthquake zones, and different color intensities represent shallow versus deep focus events. A much smaller index map to data sources provides essential information on 35 subdivisions of the seismicity map, and the years of earthquake recordings, the contributors, and their scientific organizations pertaining to each subdivision.

The large region of the seismicity map extends from 52°N 170°W (NW corner) to 52°10'W (NE corner) to 60°N 60°W (SE corner) to 60°N 138°W (SW corner). In addition to the North American continent proper, it includes the Aleutian Islands, Greenland, Iceland and nearby portions of the Mid-Atlantic Ridge, the Caribbean region, and northern portions of Colombia and Venezuela. The seismicity map spectacularly outlines the major modern plate boundaries. Wide and seismicity diffuse plate margins of the Western Cordillera of the United States and northern South America are clearly contrasted. Intraplate areas of relatively high seismicity such as New Madrid, St. Lawrence, McMechen River, and others are placed in perspective. Other areas totally lacking in microseismicity, such as the Great Lakes, Florida, and central Canada are obvious.

The Seismicity Map of Northern America is useful to geologists, geophysicists, and seismic environmental engineers, as well as all intelligent laymen. It is a handsome display that should stimulate interest in and wonder about the dynamics of the solid earth on which we must live.

This map is available through: The Geological Society of America, P.O. Box 9140, Boulder, Colorado 80301. For more information call RockWare, Inc. (303) 423-5645 Fax: (303) 423-6171 4251 Kipling St., #595 80033

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Student Government Officers Elected at CSM

Colorado School of Mines students have elected new class and student body officers for the 1990-91 academic year.

The newly-elected students include representatives of the senior class, the junior class, the sophomore class and the student body as a whole. They will take office April 19.

The new CSM officers are: Barry Thomas, student body president; Stuart Teaske, student body vice president; Jeff Odenbach, student body treasurer; Marty Powers, student Board of Trustee member; Elizabeth Cook, senior class president; Penny Iwamasa, senior class vice president; Fred Woodcock, senior class treasurer; Andrew Mulhall, senior class secretary; Rich Rossiter, senior class vice chairman; Marty Kent, junior class president; Laura Strange, junior class vice president; Wendy Johnson, junior class treasurer; Cindy Likko, junior class secretary; John Strobel, junior class social chairman; Melissa Haller, sophomore class secretary; Amy McDaniels, sophomore class vice president; Michelle Canning, sophomore class treasurer; Mary Alison Thomas, sophomore class social chairman.

C.S.M

Enjoy 18 Percent Jump in New Student Applications

Expanded educational opportunities and an aggressive recruiting program at Colorado School of Mines have produced a dynamic rise in the number of enrollment applications received by the school this year.

As of April 5, CSM had received 18 percent more new student applications for fall admission than had been talked on the same date last year, said CSM Director of Admissions Bill Young.

The school has already logged 1,141 applications for fall 1990 enrollment, enough to nearly match the total of 1,466 received during all of last year's recruiting season. CSM will continue to receive applications until August.

"I expect we'll end up the year with somewhere around 1,300 applications," Young said. "For the first time in months to go, but that seems to be where the numbers are headed."

"Not since the boom of the late 1970's has CSM seen so many applications, he added. The growth in applications is led by a leap in minority student applications. CSM is jump-starting minority students interested in CSM.

Minority applications have risen 30 percent since last year, and applications from women are up 68 percent from one year ago. "It's dear that women represent the largest untapped pool of students for engineering schools. The increase means we're doing a better job of reaching women who are looking at a career in engineering," Young said.

The school has also become more active in the recruitment and retention of minorities.

"We've been active for a number of years in minority recruitment, but last year we took a giant step forward by hiring Don Velez, who retired in 1990. We've also expanded our minority recruitment and provide new support programs.

"Other factors contributing to the renewed growth at CSM are an expansion in programs outside the traditional fields of mining and petroleum production, and a strong job market for engineering graduates.

The school is experiencing rapid growth in several areas of contemporary interest, including environmental science, chemical engineering and computer science.

According to CSM President Dr. George S. Ansell, the academic quality and appealing lifestyle found at Mines makes the rebound in applications to our university.

"Students are coming here for a fine-class engineering education in the context of a small, warm and caring institution," Ansell said.

STERMOLE, KENT, NEWMAN, BISQUE Gain EMERITUS STATUS

Four long-time CSM professors who were prominent at commencement this spring. Franklin J. Stermole (GE), Karl R. Newman (ME), Barry J. Kent (GE) and Roy Bisque (CH) have completed long and distinguished careers at CSM to earn the distinction.

Professor Stermole joined CSM as an assistant professor of chemical engineering and petroleum refining in 1965. He transferred to the Department of Mineral Economics in 1970. Stermole, who is retiring this spring, earned his B.S., M.S. and Ph.D. degrees in chemical engineering at Iowa State University. He has been a faculty member at CSM throughout his professional career.

Professor Newman began his CSM career as an associate professor of geology in 1971, and was promoted to professor in 1986. He received B.S. and M.S. degrees in geology from the University of Michigan, and his Ph.D. in geology from the University of Colorado. He retired this year.

Professor Kent, who retired last spring, came to CSM as an instructor of geology in 1956. He became a professor in 1969, and was department head and a PhD. in geology at Stanford University and a Ph.D. in geology at the University of Colorado.

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Phelps Dodge Corporation Lecture Hall Dedicated

A lecture hall in the name of the Phelps Dodge Corporation has been dedicated in recognition of the international mining company's long-standing partnership with CSM.

A room in George R. Brown Hall, the school's mining and engineering building, was dedicated as the Phelps Dodge Corporation Lecture Hall during an April ceremony. Representing Phelps Dodge were its chairman and chief executive officer Douglas C. Yearley and Mines alumnus J. Steven Whisler (MSc. Min. Econ. 1984), the company's senior vice president and general counsel.

Phelps Dodge recently pledged to contribute $200,000 over four years in support of a CSM initiative to integrate computers more thoroughly into its mining engineering programs.

The initiative involves the development of a mine design computer laboratory that will "help ensure that the Colorado School of Mines mining program is the premier program in the country," said Dr. Miklos Salamon, head of the CSM Department of Mining Engineering.

Kennecott Corporation and Cyprus Minerals Company have also provided support for the computer laboratory.

According to Douglas Yearley, Phelps Dodge is investing in mining education at CSM in order that the company can continue producing needed minerals, while striving to achieve its goals of minimal environmental impact, fair and equitable treatment of employees, and improved safety and industrial health conditions.

"To accomplish these goals we need young, bright, educated and trained minds, the kind of minds for which graduates of Colorado School of Mines are famous," Yearley said.

The Phelps Dodge gift marks the latest chapter in a relationship between CSM and the company that spans thirty years. Phelps Dodge provides on-going scholarship support to Mines students, and boosted its annual contribution for scholarships to $30,000 in 1980.

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CSM Dean Named Head of Environmental Sciences Department

Colorado School of Mines Dean of Graduate Studies John A. Cordes has resigned as an academic dean and accepted an appointment as head of the CSM Department of Environmental Sciences and Engineering Ecology. A tenured faculty member, Cordes will replace Acting Department Head John Emerick at the helm of environmental sciences May 15. He will continue in his duties until August.

Cordes has served the school well during his two and one-half years as dean, said CSM Vice President of Academic Affairs Frank Schowengerdt. Through his leadership, the school's graduate programs have been strengthened, recruiting and outreach have expanded and new initiatives have been established in waste management programs.

As head of environmental sciences, Cordes will be responsible for staffing the department, serving as a liaison with the governor's office in developing an environmental mitigation center, and planning an environmental management institute.

"CSM is currently facing some very exciting opportunities in the environmental area," Schowengerdt said. "The challenge is to position ourselves to take advantage of these opportunities. Dr. Cordes is the ideal choice to take on this challenge."
CSM Faculty Promotions, Award Winners Recognized at April Meeting

Colorado School of Mines administrators announced the recipients of faculty promotions, awards of tenure and a pair of respected honors during the April CSM faculty meeting. Among those honored was Metallurgy Professor David Olson, the 1980-90 recipient of the $1,500 Burlington-Northern award for significant and meritorious achievement in teaching and professional scholarship. In addition to his teaching duties, in 1989 Olson served as dean of research, published 18 technical papers, and received the McKee-Helm Award for best paper. Also at the meeting, Chemistry Professor Michael Pavelich was named the school's first Senate Distinguished Lecturer. A new honor initiated by the Faculty Senate, a different lecturer will be selected each year to speak at an annual special event. The date of the event has not been determined.

Lecturers are chosen on the basis of the high regard and respect they have earned among their peers. They may choose any topic for their lectures, which may or may not involve their academic specialties. The lecturers include a discretionary-fund honorarium. Recognized for promotion or tenure awards at the meeting were Ron Cohen of Environmental Sciences, Gerald DePooer of Metallurgy, Stephen Liu of Metallurgy, Ron L. Miller of Chemical Engineering and Petroleum Refining and Noboru Wada of Physics. Cohen, who came to Mines in 1986 from the U.S. Geological Survey, was granted tenure and promoted to the rank of associate professor. A successful researcher in ceramics, DePooer was granted tenure. He came to CSM in 1987 from Los Alamos National Laboratory. Liu was granted tenure and promoted to associate professor. He worked at Penn State University before coming to CSM in 1987. A CSM faculty member since 1986, Miller was granted tenure and promoted to associate professor. He has been active in a variety of innovative CSM educational programs. Noboru Wada, who came to CSM in 1988 from Schlumberger-Doll Research, was promoted to associate professor.

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HOMECOMING
OCTOBER 20, 1990
The Mines Magazine • June/July 1990

ALUMNI UPDATES

40s

49 R. G. Middleton, Met. E. has retired from Pratt and Whitney.

50s

54 George L. Mathis, Met. E. is a technical service representative with Engi­neered Component Services, Inc. in Cincinnati, Ohio.

60s

66 Robert K. Towner, E.M. is an underground superintendent for American Girl Mine in Yuma, Arizona.

70s

72 Charles O. Butto, III, BSc. Phy. is a senior engineer for C.P. Braun, Inc. in Baltimore, California.

Richard Richards, '62

Steve Collings, '67

Jay Sickelmier, '69

Jay Sickelmier, '69

Jack L. Rivkin, '62

Steve Collings, '67

Bob Hope, E.M. and MSc. Min. is working for Fairbanks Gold Ltd. in Fairbanks, Alaska. Steve Collings, Geol. E. and MSc. Geol. '69 has been elected president and CEO of Ferret Exploration Co. of Nebraska, which is located in Denver, Colorado.
BSc. Geol., is a groundwater hydrogeologist for Danes & Moore in Denver. Thomas B. Hruska, BSc. Min. was promoted to senior mining engineer for Schwalm's Canada Ltd., for Medicine Hat in Alberta. Donald J. Morchouse, BSc. Chem. is now a mining superintendent with IMC Fertilizer, Inc. in Carlsbad, New Mexico.

William F. Wilkening, BSc. CPR is a process engineer in Tucson, Arizona. Alan D. Pinkerton, BSc. Geol. is director of research and development for Green Mountain Geophysics. Scott T. Wilson, BSc. CPR is manager/health, environmental and loss prevention for Warren Petroleum in Tulsa, Oklahoma. William B. Schaefer III, BSc. Min. is an engineering specialist/coreal procurement for Denver. Collin R. Fay, BSc. Min. has been promoted to the position of production manager for Bema Gold Corporation in Vancouver, British Columbia.

Annam H. Hansen, BSc. Geop. is a marketing manager/new products for Godiva Chocolatier in New York, New York. Jon P. Hedlund, BSc. Min. is a chief engineer for Unocal/Molycorp in Quenta, New Mexico.

Kevin A. Sparks, BSc. CPR and MSc. CPR '83 is working on his post-doctorate at National Institute/Standards & Technology in Boulder, Colorado. Carol D. Nash, BSc. Geol. is an environmental geologist for the State of Florida. Gregory B. Kennedy, BSc. CPR is regional manager of Tru-Tec/division of Koch engineering in Anealhita, California. Brian C. Savage, BSc. Min. is an assistant vice president and mining engineer for The Bank of New York in New York, New York. Thomas A. Neville, BSc. Min. Econ. is a vice president with Citicorp N.A., Inc. in San Francisco, California. Larry K. Kelley, BSc. Geol. is chief mine geologist/Beartooth Project for Meridian Gold Co. in Salmon, Idaho. William M. Zisch, BSc. Min. is human resources manager for FCCI Gold Company.

John H. Fronczak, BSc. Pet. is district manager/water resources for Texco in Denver, Colorado. Michael H. Conway, BSc. Met. and MSc. Met. '75 has joined Fluor Daniel Wright as manager of mining and metallurgy at their Redwood City, California office. R. Mark Richards, BSc. Chem. is director of business development for Public Service of Colorado in Denver.

Clifford B. Lippin, BSc. Chem. and MSc. Geochem, '80 is owner of Practical Minerals Geochemistry in Reno, Nevada. Gary A. Van Huffil, BSc. Geol. is chief mining engineer for Meridian Gold Co. in Baltimore, Maryland. Richard N. warmer, BSc. CPR, is a project engineer for Western Geophysical in Bolivia. John F. Mueller, Jr., BSc. Geop. is an assistant civil engineer for City of Valle Water District in San Jose, California. Bradley N. Neumann, BSc. Met. is production manager for Solid Systems Engineering in Boulder, Colorado. John K. Donovan III, BSc. CPR is manager of General Physics Corp. in Colorado. Maryland. Brian C. Savage, BSc. Min. is director of Koch engineering in Anaheim, California. Michael Conway, '73 is a graduate student in physics at Rutgers University at New Brunswick, New Jersey. Michael W. Robinson, BSc. Eng. is a software engineer for TRW.

80's

K.C. Oberg, BSc. CPR is supervisor/processing engineer with Information Handling Services in Denver. Thomas S. Brangton II, BSc. Min., MSc. Pet. '87 and MSc. Min. Econ. '87 is a staff engineer with Mine Development Associates in Reno, Nevada. Catherine V. Woldow, BSc. Geol. is an advanced environmental engineer for EG&G in Denver. David R. Greene, BSc. Geop. is a groundwater hydrogeologist for Danes & Moore in Denver. Thomas B. Hruska, BSc. Min. was promoted to senior mining engineer for Schwalm’s Canada Ltd., for Medicine Hat in Alberta. Donald J. Morchouse, BSc. Chem. is now a mining superintendent with IMC Fertilizer, Inc. in Carlsbad, New Mexico. William B. Schaefer III, BSc. Min. is an engineering specialist/coreal procurement for Denver. Collin R. Fay, BSc. Min. has been promoted to the position of production manager for Bema Gold Corporation in Vancouver, British Columbia.

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is an engineer for Anaconda Petroleum. Clark Huffman, BSc. Pet. is a mid-management trainee with Sonel Offshore Delfing in Houston. Justin A. Bilyeu, BSc. CPR is an associate engineer for FM Chemical. Michelle S. Burns, BSc. CPR is an assistant process engineer for Sun Refining Company in Tulsa, Oklahoma. Nancy K. Cambruzzi, BSc. CPR is a process engineer for Arco Products in Los Angeles, California. Jeffrey S. Fodor, BSc. CPR is a PhD. candidate at Notre Dame. Robert J. Frank III, BSc. CPR is a process engineer for Shell Oil Company. Deborah L. Kang, BSc. CPR is a process engineer with Proctor & Gamble in Cincinnati, Ohio. Sara (Kriss) Heald, BSc. CPR is an engineering trainee for Union Carbide in Borger, Texas. Nicholas J. Battagline, BSc. Geop. Geos. works for Western Geophysical. Nizar Chemingui, BSc. Geop. is a graduate student at the University of Arizona in Tucson. Thomas C. Jones, BSc. Eng. is a civil engineer for Granite Construction in Waterville, California. Steven M. Lashek, BSc. Eng. is a map engine­ ner for Dow Chemical in Lake Jackson, Texas. Russell C. McMillan, BSc. Eng. is an equipment engineer for Texas Instruments, Inc. in College Station, Texas. Kent A. Anderson, BSc. Eng. is a nuclear engineer in the U.S. Navy. Douglas A. Ward, BSc. Min. is a mining engineer for Teberebie Gold Fields. David K. Thistlewood, BSc. Met. is a development engineer for BFGoodrich. Lawrence P. Turner, BSc. Met. is a management associate/quality assurance for U.S.S. Corporation. Pramote Soolsomporn, BSc. Pet. is an engineering trainee for Meridian Oil. Gerard R. Obiaboa, BSc. CPR is a chemical engineer for Mobil Oil. Richard C. Pierce, BSc. Math, and BSc. CPR is a facilities/production engineer for Arco Alaska. Philip J. Whitt, BSc. CPR is an engineering trainee for Phillips Petroleum. Matthew S. Nehring, BSc. Phy. is a graduate student at the University of Colorado in Boulder.

J. Trotter, BSc. CPR is an associate engineer for Martin Marietta. Trevor S. Pottorf, BSc. Eng. is an engineer for Exxon Co. USA. Albert H. Schwartzkopf II, BSc. Eng. is an ensign in the U.S. Navy. Kirk E. Smith, BSc. Eng. is a nuclear power officer in the U.S. Navy. Stephen A. Smith, BSc. Eng. is an associate engineer for Mer­ rick and Company. Robert A. Todd, Jr., BSc. Eng. is a facilities engineer for Phillips Petroleum. Michael L. Ziegler, BSc. Eng. is a facilities engineer for Mer­ rick and Company.

New Editor Takes Reins of CSM Quarterly

Stephen D. Schwierick has been appointed editor of the CSM Quarterly, a scholarly earth science journal published by Colorado School of Mines. Schwierick, a research professor in CSM’s Institute for Energy Resource Studies, brings years of publications experience to the journal. He was appointed to the editorial review board of the CSM Quarterly in 1976, has served as editor of “Mineral and Energy Resources” and has been technical editor of the “Quarterly Review of Methane from Coal Seams” Technology” for the past five years.

“Clearly, Stephen is a very strong selection for this position,” said CSM Vice President for Academic Affairs Frank Schwierick.
IN MEMORIAM

Mines Magazine would like to express the condolences of the Colorado School of Mines Alumni Association staff and directors to the families and friends of the following alumni. Unfortunately, we do not have much information on the individuals. If you have more information please write to the editor.

Robert J. Wigon, P.E. '56, died sometime during 1990. Wigon was born August 9, 1913 in Denver, Colorado. He is survived by his wife, Dorothy.

Theodore Say, P.E. '56, died February 9, 1950 in La Jolla, California. Say graduated from Grove City College (California) before coming to Mines in 1928 to complete his degree in petroleum engineering. After graduation he worked for Texaco for three years, and then for Sun Oil Company in Philadelphia, Pennsylvania for 31 years as an engineer. He is survived by his wife, Dorothy.

Carroll Wood

Carroll A. Wood

James M. Phillips

James Phillips

Budd Olrich

Budd Olrich, 66, Class of 1950, died March 2, 1990 in Roselle Hospital, Roselle, Illinois, of cancer. He was born in Duluth, Minnesota and graduated from Morgan Park High School in Doluth. He attended the University of Minnesota-Duluth and graduated from the Colorado School of Mines as a petroleum engineer.

He was employed as a petroleum exploration engineer by the Parabache Eastern Pipelines and had been in oil exploration work in Colorado, Oklahoma and Kansas. He was retired at the time of his death and had lived in Loomis, California for the past five years.

He was a World War II Navy veteran, serving with the Seabees in the South Pacific.

Burial was in the family plot in the Oceano Cemetery in Duluth, Minnesota.

Walter G. Roberts

Walter Orr Roberts of Boulder, Colorado, died of cancer March 12, 1990 at his home. He was 74.

The Mines Magazine • June/July 1990
Two Renowned Mining Schools Sign Cooperative Agreement

by Dr. David Coolbaugh (Geol. E. ‘43; E.M. ‘47; DSc. ‘61)

EDITOR’S NOTE: The following article describes an agreement between Mines and a Mexican university, a project nurtured by alumnus Dr. David Coolbaugh, who spent 24 years living in Mexico.

In April 1988 an agreement was signed between the Colorado School of Mines (CSM) and the University of Guanajuato (UG). This agreement established a formal link between CSM and UG for faculty and student exchange programs, joint research, undergraduate training, and postgraduate training and research. The agreement recognizes a long-standing tie between two well-known schools of mining and engineering. The Guanajuato School of Mines dates from the 1790s, certainly one of the oldest schools to the Western Hemisphere. Its graduates hold, and have held, the majority of key positions within the Mexican mining companies and government agencies most concerned with the Mexican mineral industry.

Although rather poorly financed, the University of Guanajuato School of Mines produces the best mining, metallurgical and geological engineers in Mexico, and is recognized as one of the best in the world. The Guanajuato School of Mines needed to upgrade their teaching and staff. Professor Lute J. Parkinson (G.M. ‘23, Medalist 50), who at the time was head of the Department of Mining Engineering at Mines, saw that the Guanajuato School of Mines needed to assist its sister school with lecture and laboratory outlines, textbook recommendations for chemistry, and an introductory course in environmental science. The CSM library is reviewing their books and periodically to select such information as could be usefully sent to Guanajuato.

The largest cooperative effort to date at Guanajuato was a one-week course in mineral processing taught by former CSM Professor David Spontsawski of the Metallurgy Department who was assisted by Javier Ramirez Castro (PhD. ’84).

More courses will be given, and an active exchange between Mines and the Mexican students and faculty will take place. The future will hold more useful ties between two fine mining schools depending primarily on the financial support and effort that can be secured.

MINER'S OUTLOOK

PROFESSIONAL CARDS

The Mines Magazine • June/July 1990

Computer

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