

## RECORD OF PROCEEDINGS

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Golden, Colorado  
January 4, 1974

In substitution of the regular monthly meeting, the Board of Trustees met at 9:00 a.m., January 4, 1974, at the Petroleum Club in Denver.

Present: Messrs. Alexander, Coors, Fogarty, Reeves, and Stockmar.

Absent: Messrs. Bradley and Eisenach.

Mr. Stockmar, President of the Board, presided.

President McBride, Dr. Gary, and Mr. Scott attended the meeting.

Previous Minutes. The minutes of the meeting held on December 14, 1973 were approved as corrected.

Vouchers. After examination of listing of vouchered payments for the period December 1, 1973 through December 21, 1973, it was moved, seconded, and passed that the list as appended to these minutes be accepted as evidencing satisfactory control of expenditures and transfers of funds.

Liability. The examination of the vouchered payments provoked discussion of the liability implications against the School when students are injured on school-related trips, such as to participate in intercollegiate athletics. Mr. Scott was asked to prepare a memo to the Board informing of the general policy regarding coverage and legal aspects of liability. It was suggested that this matter was a concern of the Colorado Commission on Higher Education which might wish to establish a state-wide policy for such coverage.

Date of February Meeting. In view of the fact that the Centennial celebration will be held on February 7, 8, and 9, 1974, President McBride suggested a brief breakfast meeting on Saturday morning, February 9, 1974, before the day's events. The members of the Board agreed that President McBride should establish the time of such meeting after preparation of the agenda.

Honorary Degree. President McBride reported to the Board that David Rockefeller has, through the outstanding efforts of Dr. Fogarty, agreed to deliver the principal speech on February 9. His speech is expected to deal with the international energy situation and the utilization of fiscal resources in the development of natural resources. President McBride recommended that an honorary degree be awarded to Mr. Rockefeller.

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Upon motion made, seconded, and unanimously passed, an honorary degree of Doctor of Engineering will be awarded to Mr. David Rockefeller on February 9, 1974 at the Centennial Convocation.

New Faculty Appointments. President McBride reviewed the new appointments as follows:

Karl Russell Nelson                      \$12,000 per academic year  
Assistant Professor of Basic Engineering

Jeris A. Danielson                      no compensation  
Advisory Engineer in Geology Department

Ruth Simon                              \$14,000 per year  
Research Associate in Geophysics

Admissions. President McBride distributed copies of memoranda from the Admissions Office showing applications up 31 percent over last year at this time. He reported that advertisements have been placed in every daily and weekly of general circulation in Colorado during the past ten days.

Financial Reports. Mr. Scott reviewed the monthly reports and related items on these reports to the working budget for 1973-74. Mr. Scott indicated he was in the process of revising these reports for greater clarity.

The reports reviewed were the same reports reviewed at the December 14 meeting. The review was made to acquaint the newer members with the format of the financial reporting.

Affirmative Action Plan. The Plan, copies of which had been distributed at the December meeting, met with general approval of the Board. It was pointed out that the Plan is incorporated into the Faculty Handbook as school policy and is on file for inspection by any interested person or agency.

It was moved, seconded, and unanimously passed that the Affirmative Action Plan, Revision No. 1, be approved as official policy.

Goals and Objectives - Intramural Communication. Dr. Charles Kohlhaas of the Petroleum Engineering Department distributed copies of the results of a questionnaire he had prepared. He discussed it briefly.

In view of the shortness of time available for this item, Mr. Stockmar asked that the item be continued to the March agenda.

The meeting adjourned at 11:45 a.m.

Assistant Secretary

January 4, 1974

TO THE HONORABLE MEMBERS OF THE HOUSE OF REPRESENTATIVES  
OF THE STATE OF NEW YORK  
IN SENATE  
JANUARY 11, 1900.

REPORT  
OF THE  
COMMISSIONERS OF THE LAND OFFICE  
IN ANSWER TO A RESOLUTION PASSED BY THE SENATE  
MAY 1, 1899, AND BY THE HOUSE OF REPRESENTATIVES  
MAY 1, 1899, CONCERNING THE LANDS BELONGING TO THE STATE.

ALBANY:  
PUBLISHED BY THE STATE PRINTING OFFICE,  
1899.

THE STATE OF NEW YORK,  
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ALBANY:  
PUBLISHED BY THE STATE PRINTING OFFICE,  
1899.

## RECORD OF PROCEEDINGS

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Golden, Colorado  
February 9, 1974

In substitution of the regular meeting, the Board of Trustees met in special session at 8:30 a.m., February 9, 1974, at the President's home in Golden, Colorado.

Present: Messrs. Alexander, Bradley, Coors, Eisenach, Fogarty, Reeves, and Stockmar.

President McBride, Mr. Scott, and Dr. Gary attended the meeting.

Previous Minutes. The minutes of the meeting held on January 4, 1974 were approved.

Vouchers. After examination of listing of vouchered payments for the period January 2, 1974 through January 25, 1974, it was moved, seconded, and passed that the list as appended to these minutes be accepted as evidencing satisfactory control of expenditures and transfers of funds.

Dedication of Lecture Room. President McBride reported a request by the Department of Metallurgical Engineering that Room 237 in Hill Hall carry the name of the late Dr. W. J. Kroll, who was not only an outstanding metallurgist but was very generous to the Department.

Upon motion made, seconded, and unanimously passed, the following resolution was adopted:

WHEREAS the instruction of students at the Colorado School of Mines in the subject of metallurgical engineering has benefitted greatly from the assistance given to the Department by the W. J. Kroll Institute for Extractive Metallurgy; and

WHEREAS the late Dr. W. J. Kroll was one of the foremost metallurgists of this century; therefore be it

RESOLVED that the principal lecture room, Room 237, in Hill Hall on the campus of the Colorado School of Mines be designated the W. J. Kroll Lecture Hall.

Professor Clark Carpenter. President McBride was requested to explore ways of memorializing the name of Professor Clark Carpenter, who was head of the Department of Metallurgy from 1936 until his retirement in

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1953, and who had served on the Metallurgy Department faculty since 1921 (except for 1922-23). Professor Carpenter was chairman of the Graduate Committee before the establishment of the Graduate School and in 1952 he was appointed to the position of dean of the newly-formed Graduate School. Professor Carpenter died several years ago. ✓

Volk Memorial. President McBride was asked to list on an early agenda the matter of a suitable memorial for Mr. Volk.

Faculty Appointments. President McBride reviewed the following new appointments to the faculty:

|   |                 |
|---|-----------------|
| David L. Butler<br>Research Associate in Geophysics<br>(spring semester)                        | \$6,750         |
| Albert M. Keenan<br>Adjunct Professor of Mining Engineering<br>(one-half time, spring semester) | 4,625           |
| Robert G. Reeves<br>Senior Advisory Scientist in Geology  | no compensation |
| Phillip R. Romig<br>Research Associate in Geophysics<br>(spring semester)                       | 6,750           |
| John D. Wright<br>Instructor in Petroleum Engineering<br>(spring semester)                      | 5,000           |

Enrollment and Admissions. President McBride had for the information of the Board a report from the Registrar on second semester enrollment: 1,574, down 6.8 percent from fall enrollment, but over budget.

Admissions acceptances for the fall of 1974 are up approximately 100 from fall, 1973. Replies from the Wall Street Journal advertisement totaled 139 and from the Denver Post advertisement 73.

1974-75 Budget. President McBride reviewed for the Board the situation with regard to the 1974-75 budget. Copies of the analysis of CCHE and EBO recommendations versus Mines request were distributed as were copies of letters recently written to Mr. Petrone, Representative Arnold (JBC), and Governor Vanderhoof.

It was pointed out that neither the CCHE nor the EBO recommended budgets meet Mines legitimate needs and that much work with individual state government executives and legislators needs to be accomplished. It is not anticipated that a second, or supplementary, hearing will be held on this budget although this budget will certainly be of reference in the expected JBC hearing on the CERI budget (see next page).

Establishment of Colorado Energy Research Institute. Copies of the proposal to establish such an institute under the administrative responsibility of the School were distributed for information. First year funding requested is \$2,600,000. The purpose of the institute is the alleviation of the energy and mineral shortages and the provision of graduates qualified to help solve these shortages. A bill (S.B. 50) creating this institute has been written for introduction and a hearing has been scheduled before the Senate Appropriations Committee. The bill as written carries an appropriation figure of \$982,800.

Mining Engineering Building. The pressing need for a new building to house the Department of Mining Engineering was discussed. President McBride said he will begin planning an approach to the problem.

Residency Petitions. President McBride reviewed the situation which has resulted from the Covell Decision allowing students to petition for residency. Such petitions are received by Mr. Scott who reviews each case for compliance with specific requirements. Mr. Scott accepts or rejects the case. If rejected, the student petitioner can appeal to the faculty committee set up for this purpose. This faculty committee reports its decision to the President.

President McBride asked for directions on referring petitioner to the Board. The Board specifically designated President McBride its agent in making the final decision on whether or not the student petitioning for residency has been justly ruled resident/nonresident.

Monthly Financial Reports. Mr. Scott provided the monthly financial reports as follows: Balance Sheet, January 31, 1974; Summary for Budget Appropriation & Disbursements, as of January 31, 1974; Budget Summary for Open End Bond Issue, January 31, 1974; Budget Summary for 1966 Bond Issue, January 31, 1974; Budget Summary for State Rental Properties, January 31, 1974; Budget Summary for Health and Accident Plan, January 31, 1974; Budget Summary for CSM Athletic Association, January 31, 1974; Budget Summary for Associated Students, January 31, 1974; and Office of Research Services Contract Funds, as of January 31, 1974.

The meeting adjourned at 9:30 a.m.

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Secretary

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Golden, Colorado  
March 8, 1974

The Board of Trustees met in regular session at 9:30 a.m., March 8, 1974, in the Board Room of the Colorado School of Mines.

Present: Messrs. Alexander, Bradley, Coors, Fogarty, Reeves, and Stockmar.

Absent: Mr. Eisenach.

Mr. Stockmar, President of the Board, presided.

President McBride, Dr. Gary, and Mr. Scott attended the meeting.

Previous Minutes. The minutes of the meeting held on February 9, 1974 were approved.

Vouchers. After examination of listing of vouchered payments for the period January 28, 1974 through February 22, 1974, it was moved, seconded, and unanimously passed that the list as appended to these minutes be accepted as evidencing satisfactory control of expenditures and transfers of funds.

Status, 1974-75 Budget. President McBride reported that the budget status remains the same; i.e. Mines request \$7,876,000 versus CCHE recommended \$7,482,000 and EBO recommended \$7,317,000. He reported further that we have not yet received a determination as to whether we will be allowed to spend the extra tuition money generated from the 100 extra students which we expect for the fall of 1974. If we do succeed in recruiting 100 extra students, it will be necessary to hire five extra faculty for the lower division sections, and the money received in tuition from the 100 extra students will fund these new faculty; but we, of course, must have spending authority. ✓

S.B. 50. President McBride reported that the bill has passed the Senate on final reading and is in the House under the sponsorship of Representative George Fentress. Presumably the bill will come before the House Appropriations Committee, but no hearing has been scheduled.

S.B. 50 as passed by the Senate provides for \$400,000 for research, \$160,000 for scholarships, and \$110,00 for administration. ✓

President McBride expressed concern that the small sum included in bill for research was neither commensurate to the need nor large enough to secure credibility with federal funding sources. He hoped the amount could be increased.

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Admissions. Admissions applications are 30 percent over this time last year; i.e. as of March 1, 634 this year versus 479 in 1973. The CSM Foundation has approved a grant of \$4,000 for a contract admissions study which will include both telephone solicitations of contacts who have not filed an application and a review of admission procedures. President McBride said we intend to use our share of the scholarship monies expected to be available under S. B. 50 in such a way as to enhance recruitment of additional new students.

U.S.G.S. Request for Space. The U.S.G.S. has agreed to the terms proposed for rental of space in Berthoud Hall and the Green Center on a temporary basis at \$5.00 per square foot in the latter and \$4.00 per square foot for office space and \$1.50 per square foot for garage space in the former. A contract is being prepared to cover these arrangements.

President McBride reported that we now have the request for 50,000 square feet of permanent space for U.S.G.S. He suggested three approaches to consider: (1) going through State channels to provide permanent building; (2) using CSM Foundation funds to provide building; or (3) seeking private funds for this purpose.

President McBride asked for instructions on which way to proceed, recognizing the value of having the U.S.G.S. either on or adjacent to the campus. The benefits are seen to include the interchange of professional expertise, the provision of financial aid to our graduate students through fellowship and research assistance, and the increase in our enrollment through persons associated with the U.S.G.S.

In the discussion it was recognized that if the project were to go through the State channels, there would be considerable time lag. The use of CSM Foundation funds, if agreed to by the CSM Foundation Board, had some advantages and would be in line with the purpose of the Foundation.

It was moved, seconded, and unanimously passed that the following resolution be adopted:

Having received a sight of the U.S.G.S. February 27, 1974 request for 50,500 square feet of permanent space in a new building on or adjacent to the Mines campus and being aware of prior discussions of this program, the Board directs the administration vigorously to pursue the providing of such space under one of the feasible alternatives.

Married Student Housing. President McBride reviewed for the Board the situation as it now exists. The bids which came in 50 percent over the estimate were all rejected. It was agreed at the time of the bidding that the matter should be brought up in six

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months to ascertain whether the time would be right for new bids to be called for. Mr. Scott has been investigating the matter and reports there is no reason to believe the bids would come in lower at the present time than they did before. The actual necessity of the School providing housing was subject to review in light of the considerable amount of new building now underway in the Golden area. Whether or not the old Prospector Park buildings should be demolished, renovated, or continued as is was discussed with no conclusion reached.

The matter was deferred until the April meeting.

Name Change, Chemistry Department. President McBride reported on a request from the Chemistry Department, supported by the Geology Department, Dr. Gary, and Dean Copeland, that the Chemistry Department be renamed the Department of Chemistry and Geochemistry. President McBride said the change would not represent any change in the thrust of the department; at the present time a majority of the students are majoring in geochemistry and probably 80 to 90 percent of the research is in the direction of geochemistry. President McBride said he was of the opinion the change would be more correct and would also aid in the recruitment of students, since the present name does not reflect the true scope of the work being done.

The change met with complete Board approval. President McBride said the new name would be shown in the new catalogue.

Monthly Reports. Mr. Scott reviewed the monthly reports as follows: Balance Sheet, February 28, 1974; Summary of Budget Appropriation & Disbursements, as of February 28, 1974; Budget Summary for Open End Bond Issue, February 28, 1974; Budget Summary for 1966 Bond Issue, as of February 28, 1974; Budget Summary for State Rental Properties, as of February 28, 1974; Budget Summary for Health and Accident Plan, February 28, 1974; Budget Summary for CSM Athletic Association, February 28, 1974; Budget Summary for Associated Students, February 28, 1974; and Office of Research Services Contract Funds, as of February 28, 1974.

Investment Committee. President McBride and Mr. Scott reviewed the situation with regard to funds under the ownership of the School, funds amounting to approximately \$590,000, many given to the School for specific purposes, which funds have in the past been managed with the advice of the Investment Committee of the CSM Foundation. However, in view of the separation of the School and CSM Foundation, the question was being posed as to what is the proper fiduciary posture of the Board with regard to these accounts; e.g. whether the Board requires an Investment Committee of its own to manage these funds?

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Previous Minutes. The minutes of the meeting held on February 21, 1964 were approved.

Time Capsule - College Union. President Childs reviewed for the Board an idea he had to interest the students in preparing for the new college union building a time capsule to be opened in ten years at our 100th anniversary celebration. He hoped to be able to get national publicity by possibly getting the President of the United States to appear on the program and also he hoped to tie it into a ten-year reunion of the present senior class.

It was the opinion of the members of the Board present that it would not be possible to get any except local interest for such an event and that such a time capsule should be oriented to students and their interests.

Tuition - Enrollment. President Childs distributed information which had been gathered on applications for enrollment, tuitions at other schools, and also an analysis made by the Business Office on proposed tuition income increases.

After a careful review of the figures presented, the motion was made, seconded, and unanimously passed that effective with the 1964 fall term, resident tuition would be \$300 and non-resident tuition would be \$800.

The Board based its decision on figures prepared by the Business Office as follows:

|   |   |                |
|---|---|----------------|
| Tuition income recommended by the legislature | - | \$566,838      |
| Estimated tuition income before any increase  | - | <u>508,238</u> |
| Additional income needed                      |   | \$ 58,600      |

|                                       | <u>Expected</u> | <u>Present</u> | <u>New</u>  | <u>Additional</u> |
|---------------------------------------|-----------------|----------------|-------------|-------------------|
|                                       | <u>Students</u> | <u>Rate</u>    | <u>Rate</u> | <u>Income</u>     |
| Full-time residents                   | 423             | \$235          | \$300       | \$28,200          |
| Full-time nonresidents                | 536             | 750            | 800         | 27,550            |
| Other (part-time & Intensive English) |                 |                |             | <u>3,060</u>      |
|                                       |                 |                |             | \$58,810          |

No change was made in summer school tuition at this time.

The suggestion was made that consideration be given to lower tuition for lower division work on the justifiable premise that the lower division work was less expensive. The Board asked that some cost figures be prepared on this item.

Presidents' Association. President Childs reviewed for the information of the Board the events affecting the Presidents' Association. The line item to finance the association had been deleted from the budget and financing is assured only for the present fiscal year. President Childs stated that he had gained invaluable assistance from his first year's participation in the association, but conceded it may have diminishing value.

It was the conclusion that for the immediate future only we shall continue to rely upon the advice of the Foundation Investment Committee and in the meantime gather information from the three largest banks in Denver about their records of accomplishments with regard to custodial accounts and management accounts. With such information, the matter can be reviewed and action taken at the April meeting.

Professional Degree. There was distributed a report dated February 6, 1974 from the Professional Degree Committee. The Professional Degree program was approved by the Curriculum Committee on January 14, 1974 and by the faculty at the meeting on January 16, 1974. Dr. Gary recommended, and President McBride concurred, that the Professional Degree program, administered by the undergraduate school, be approved.

Specific questions were addressed to Dr. Gary as to options available to students, including transfer students. Dr. Gary answered that by taking extra courses each semester, under the guidance of a faculty committee, a student could complete the work for a Professional Degree in four years, plus summer field work, and this can be done along with the work for a Bachelor of Science degree. The need for State (CCHE) approval was brought up, and Dr. Gary reported that such approval for the old Professional Degree had never been negated per se but that in the establishment of the Bachelor of Science degree program it may have been implied that the Professional Degree would be phased out. Dr. Gary said he has talked with CCHE and has been informally told that it will not be necessary to go through all the steps required for approval of a new degree, inasmuch as this is not a new degree.

The Board went on record as emphasizing that the approval of the reinstatement of the Professional Degree program should in no way be interpreted as a weakening of the present Bachelor of Science degree program. The Bachelor of Science degree program is still intended to be a good, sound engineering degree and it is not the intent of the Board to relegate the Bachelor of Science degree to a second class position.

Upon motion made, seconded, and passed, the Board approved the reinstatement of a Professional Degree on the basis of the memorandum of February 6, 1974 addressed to the President from the Professional Degree Committee.

Mr. Stockmar, speaking on behalf of the Board, expressed pride in and admiration for the students who spearheaded the effort to bring about this reinstatement.

Faculty Service Memorials. President McBride said that in response to a suggestion at the February meeting he has been giving some thought to a means of memorializing names of former prominent members of the faculty such as Professor Clark Carpenter. He thought

perhaps there may be many others who had given unusual service to the School and for whom it would be appropriate to establish permanent memorials. He suggested naming certain classrooms, with appropriate plaques, or seeking to establish a scholarship in the name of each person who merited such consideration.

The Board approved the concept of memorializing truly effective, dedicated faculty members and instructed President McBride to compile a list and design an approach to the scholarship idea.

Memorial for Mr. Russell H. Volk. A suitable memorial for the late Mr. Volk was discussed. It was concluded that naming the gymnasium for him would be most appropriate.

Upon motion made, seconded, and unanimously passed, the following resolution was adopted:

WHEREAS the Trustees of the Colorado School of Mines desire to honor the life and accomplishments of their friend and colleague Russell Herman Volk, lost in death March 14, 1973; and

WHEREAS the Trustees of the Colorado School of Mines intend further that this honor shall be of a nature as long lasting in the affairs of men and institutions as reasonably possible; and

WHEREAS Russell Herman Volk was the greatest student athlete of his generation, having earned fifteen varsity letters during four years of intercollegiate competition; and

WHEREAS he maintained and displayed throughout his life an overwhelming interest in competitive athletics and in the young men and women who participated therein;

THEREFORE BE IT RESOLVED that the present Gymnasium Building at the corner of Fourteenth and Illinois Streets on the campus of the Colorado School of Mines in Golden be and hereby is in perpetuity named the Russell H. Volk Gymnasium; and

BE IT FURTHER RESOLVED that a service of dedication shall be observed at an early date, at which time, as a part of a proper and respectful ceremony, a permanent plaque bearing the following inscription shall be unveiled:

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### RUSSELL H. VOLK GYMNASIUM

This building is dedicated to the memory of Russell Herman Volk, E.M., 1926; M.Sc., 1931; Medalist, 1956, whom we now and shall always remember to have been

The greatest student athlete of his generation whose feats distinguished the silver and blue of Mines wherever he bore it;

A petroleum engineer of unusual competence and deeply reasoned convictions whose professional judgments helped shape the Colorado oil industry;

A businessman of skill, integrity, and strong determination who founded and led a significant natural-resources company;

A concerned citizen of this city, state, and nation whose skills and services were ever freely and effectively given; and

A loyal servant of his Alma Mater in whose behalf he labored without stint or measure.

HIS LIFE SHOWED WHAT A MINES MAN CAN BE.

May 9, 1974

Intramural Communications. The matter of campus communications was discussed briefly. President McBride was asked to prepare for the April meeting an outline of various means of communications available to faculty members who wish to get information up through the chain of command to the administration, and possibly to the Board.

The meeting adjourned at 2:00 p.m.

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Assistant Secretary

March 8, 1974

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Colorado School of Mines  
1400 N. St. Louis Ave.

The Board of Trustees met in regular session at 9:30 a.m., April 12, 1974, in the Board Room of the Colorado School of Mines.

Present: Messrs. Bradley, Coombs, Eisenbach, Fogarty, Reeves, and Stockmar.

Absent: Mr. Alexander.

President McBride, Dr. Alter (consultant), Dr. Gary, and Dr. Scott attended the meeting.

Mr. Stockmar, President of the Board, presided.

CMA Resolution. As a first order of business, the Board was honored and pleased to receive on behalf of the School a plaque bearing the resolution adopted by the Colorado Mining Association in honor of the School and its 100th anniversary. The presentation was made by Mr. R. L. Druva, President, CMA, and Mr. David R. Cole, Secretary, CMA.

Previous Minutes. The minutes of the meeting held on March 8, 1974 were approved.

Vouchers. After examination of listing of vouchered payments for the period February 25, 1974 through March 29, 1974, it was moved, seconded, and passed that the list as appended to these minutes be accepted as evidencing satisfactory control of expenditures and transfers of funds.

Notwithstanding this action, some concern was again expressed whether the present method of examination of vouchered payments is sufficient to satisfy the responsibility vested in the Board. Further consideration is to be given to this matter. ✓

New Faculty Appointments. President McBride reported on the following new appointments:

|  |                    |
|--|--------------------|
| Richard S. Culver<br>Dean of Students                    | \$21,000 (1974-75) |
| Nicholas P. Callas<br>Assistant Professor of Mathematics | 13,600 (1974-75)   |
| John F. Abels, Jr.<br>Professor of Mining Engineering    | 17,500 (1974-75)   |

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Members of the Board expressed some interest in meeting appointees to principal offices. President McBride indicated that he would take pleasure in making such arrangements and would do so at the earliest convenient opportunity.

Admissions. A tabulation showing applications received, accepted, not accepted, and in process as of April 1, 1974 was distributed. Applicants offered admissions total well over a hundred more than this time last year.

Dr. Gary reported on a survey being made of our admissions procedures. This survey, being financed by the CSM Foundation and costing approximately \$5,000, is being made as much for the benefit of the next Director of Admissions as for that of the present Director, Mr. Burdick, who is well known for the effective administration of his office. Mr. Burdick will retire at the close of the 1974-75 school year. The survey includes telephone follow-up work on persons who have inquired of the admissions office for information but have not filed applications.

SB 50. President McBride reported that SB 50 (Colorado Energy Research Institute) has passed the House and the Senate separately and includes \$650,000 for research in the former and \$400,000 for research in the latter and in each \$150,000 for scholarships and \$110,000 for administration. Conference committee consideration is yet to come. ✓

The importance of the membership of the Advisory Council therein provided was again discussed and trustees were urged to submit names for review.

Legislative Audit Committee Report. President McBride reported having received a copy of the 9th Annual Legislative Audit Committee Report, which will be on file if any person is interested in seeing it. CSM was not singled out for adverse mention.

1974-75 Budget Status. President McBride reported that the long bill containing our appropriation was expected to be up for final reading on April 15 next. The appropriation reflects a short fall of \$436,000 from Mines budget request.

President McBride distributed for review and information copies of a letter he is mailing to Governor Vanderhoof asking that the Governor veto a footnote to the long bill which prohibits financial aid to nonresident graduate students not now receiving financial aid. ✓

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Professional Degree. President McBride reported the receipt of a letter from CCHE in which it was stated that no action was deemed necessary on their part with regard to the reinstatement of the Professional Degree; i.e. the degree is approved.

Monthly Reports. Dr. Scott reviewed the monthly reports as follows: Balance Sheet, March 31, 1974; Summary for Budget Appropriation and Disbursements, as of March 31, 1974; Budget Summary for Open End Bond Issue, March 31, 1974; Budget Summary for 1966 Bond Issue, March 31, 1974; Budget Summary for State Rental Properties, March 31, 1974; Budget Summary for Health & Accident Plan, March 31, 1974; Budget Summary for CSM Athletic Association, March 31, 1974; Budget Summary for Associated Students, March 31, 1974; and the Office of Research Services Contract Funds, March 31, 1974.

Board Meeting Dates. The dates of the meetings for the next several months were reviewed and confirmed to be as follows:

May 3 - One week early because of Commencement.

June 14 - Regular meeting date. Meeting to be held in Aspen with selected staff present for round-table discussion.

July 12 - Regular meeting date.

No meeting in August.

September 13 - Regular meeting date.

Academic Leave - Dr. Robert J. Weimer. President McBride presented a request from Dr. Weimer for an academic leave for the 1974-75 school year at one-half pay. Dr. Weimer plans to revise a lecture notebook used in the Continuing Education and Research Program. He also plans to travel and to lecture extensively in Indonesia, Saudi Arabia, and Australia.

The request had been approved by Dr. Kent, and Dr. Gary recommended and President McBride concurred that this leave for the 1974-75 school year at one-half pay be approved.

Upon motion made, seconded, and passed, the leave was approved by the Board.

Retirements. President McBride reported the following retirements, effective at the end of this school year, or August 31 in the case of nonteaching staff:

John R. Hayes  
George W. Johnson  
Truman H. Kuhn  
Ronald D. Preston  
Francis E. Smiley

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The policy, and precedents, on the granting of emeritus status as recorded in the minutes of August 29, 1969 were reviewed and amended to read as follows:

Professor emeritus rank may be given by the Board upon recommendation of the President in accordance with criteria set forth by the Board, i.e. to faculty members with either a minimum of 10 years of valuable service, at least 5 of which years were served as a full professor, or with a minimum of 30 years of service irrespective of rank. Recommendation for this designation will be made to the Board at the April meeting; notification will go to the individual as soon as possible after the meeting with public announcement to be made either at Commencement or at the faculty conference at the beginning of the following school year.

Upon motion made, seconded, and unanimously passed, the following were granted emeritus status:

John R. Hayes, Professor Emeritus  
George W. Johnson, Professor Emeritus  
Truman H. Kuhn, Vice President Emeritus  
Ronald D. Preston, Professor Emeritus  
Francis E. Smiley, Dean Emeritus

Distinguished Achievement Medals. Upon motion made, seconded, and passed (Mr. Eisenach abstaining with respect to his own medal) the following were selected to receive Distinguished Achievement Medals at Commencement on May 10, 1974:

Edwin J. Eisenach, E.M. 1939  
William J. Holtman, Met.E. 1943; M.Sc. 1947  
Stephen S.F. Hui, Geol.E., E.M. 1940  
Leslie W. LeRoy, Geol.E. 1933; D.Geol.E. 1944  
Antonio Ermirio de Moraes, Met.E. 1949  
Jose Ermirio de Moraes, Met.E. 1948  
Frank R. Moulton, Jr. Gp.E. 1951  
Jack E. Thompson, Class of 1947  
George W. Wunder, E.M. 1936

President McBride reported that Dr. Ku Kung-HSU is scheduled to be on campus on May 3 to attend a meeting of the Cooperative Institute for Research in Environmental Sciences. The medal prepared for him to be awarded last year at Commencement has been held, and the President asked for instructions. The Board approved the awarding of the medal if Dr. Ku came to the campus as scheduled.

## RECORD OF PROCEEDINGS

George R. Brown Medal. President McBride reported that as instructed, he had written to Dr. Kuhn telling him of the Board's desire to award to him the first George R. Brown Medal for outstanding contributions to the field of engineering education. Dr. Kuhn has replied that he will be honored to accept and the medal will be awarded at Commencement on May 10, 1974. ✓

Dedication of Gymnasium. President McBride distributed copies of a preliminary plan for the dedication of the gymnasium on the evening of May 9 before the Annual Alumni Banquet. The plans meet with the approval of the Volk family.

Faculty Memorials. President McBride distributed copies of a plan to memorialize former dedicated faculty members. No action was asked for at this meeting; the item will appear on a future agenda. ✓

Rental Schedules. Upon motion made, seconded, and passed, the following schedules for rentals, room, and Board were established:

|  | <u>Present<br/>Rate</u> | <u>Effective<br/>September 1,<br/>1974</u> |
|--|-------------------------|--|
| <u>Caldwell, Bradford, Randall,<br/>Morgan, and Thomas</u> |                         |  |
| Room and Board, academic year                              |                         |  |
| Double Room  | \$900.00                | \$975.00                                   |
| Single Room  | 950.00                  | 1,025.00                                   |
| Room and Board, summer session                             |                         |  |
| Double Room  | 211.50                  | 244.00                                     |
| Single Room  | 223.50                  | 256.00                                     |
| Room only, field session                                   |                         |  |
| Double Room  | 58.50                   | 71.00                                      |
| Single Room  | 68.50                   | 81.00                                      |
| <u>Prospector Village</u>                                  |                         |  |
| Single Student Apartment, academic year                    |                         | 500.00                                     |
| Single Student Apartment, summer session                   |                         | 125.00                                     |
| <u>Married Student Apartment, monthly rate</u>             |                         |  |
| 1-bedroom  | 100.00                  | 110.00                                     |
| 2-bedroom  | 110.00                  | 120.00                                     |
| 3-bedroom  | 120.00                  | 130.00                                     |
| <u>Prospector Park, monthly rate</u>                       |                         |  |
| 1-bedroom  | 60.00                   | 65.00                                      |
| 2-bedroom  | 70.00                   | 75.00                                      |

## RECORD OF PROCEEDINGS

6

### Mines Park, monthly rate

|                               |          |          |
|-------------------------------|----------|----------|
| Buffet apartment              | \$100.00 | \$110.00 |
| 1-bedroom apartment           | 125.00   | 140.00   |
| 2-bedroom apartment           | 140.00   | 155.00   |
| 2-bedroom house (37,38,39)    | 165.00   | 180.00   |
| 2-bedroom house (25,26,27,28) | 175.00   | 195.00   |
| 2-bedroom house (30,31,34,35) | 145.00   | 160.00   |
| 3-bedroom house               | 160.00   | 175.00   |

### Student Center Fees, semester

|           |       |       |
|-----------|-------|-------|
| no change | 20.00 | 20.00 |
|-----------|-------|-------|

Tuition. President McBride reported that the Long Bill as written proposes 1974-75 tuition as follows:

Resident, semester from \$228 to \$238

Nonresident, semester from \$911 to \$954

Married Student Housing. Dr. Scott's memo of April 3 was discussed. The memo contained the information that the Highway Department had no further requirement for land at the intersection of 19th Street and Highway 6; the income is used to retire indebtedness against Revenue Fund of 1962 Bond Issue; the apartments can be equipped with fire alarm systems.

The administration was instructed to install the fire alarm system, and no further action was taken.

Investment Committee. Dr. Scott reported he did not have complete information at this time and asked to delay a recommendation inasmuch as the CSM Foundation Investment Committee is acting as the Board's agent on a temporary basis.

USGS Building. President McBride reported that he had asked Dr. Scott to search out the Board's legal powers with regard to leasing School land for such use and extracts from pertinent statutes were distributed. A map of the long-range master plan was studied with a view to selecting a satisfactory site for the USGS building.

Mining Building. A possible site for a new mining building was also discussed at some length.

The meeting adjourned at 12:30 p.m.

Secretary

## RECORD OF PROCEEDINGS

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Golden, Colorado  
May 3, 1974

In substitution of the regular meeting, the Board of Trustees met on May 3, 1974, at 9:30 a.m., in the Board Room of the Colorado School of Mines.

Present: Messrs. Bradley, Coors, Reeves, and Stockmar.

Absent: Messrs. Alexander, Eisenach, and Fogarty.

President McBride, Dr. Alter (consultant), Dr. Gary, and Dr. Scott attended the meeting.

Mr. Stockmar, President of the Board, presided.

Students, Art Stewart, Lytle Whitefield, and William Warfield, entered the meeting and presented a request to the Board that the members of the Blue Key and others be permitted to erect on campus (Stratton Common) a memorial monument to recognize the life and service not only of Denman S. Galbraith, Geol.E., 1949, (deceased April 13, 1974) but later and upon an appropriate selection process other persons who contribute to student life and campus and community welfare.

The Board took the matter under advisement and thanked the students for the concern and sensitivity prompting such action. The Administration was instructed to bring to the Board a recommendation on the instant proposal.

The students then presented a protest to the Board delineating their objections to a recent ruling that single girls be assigned to a limited number of the apartments in the married student housing complex, Prospector Village. The Board listened with great interest and indicated its understanding that a problem did exist as far as providing adequate School housing for all students, married and single. The students were assured that further careful attention would be given to this matter even though it was unlikely that the Board would intervene in an administrative matter.

The students left the meeting at this time.

Previous Minutes. The minutes of the meeting held on April 12, 1974 were approved.

Vouchers. After examination of the listing of vouchered payments for the period April 1, 1974 through April 24, 1974 it was moved, seconded, and unanimously passed that the list as appended to these minutes be accepted as evidencing satisfactory control of expenditures and transfers of funds.

May 3, 1974

## RECORD OF PROCEEDINGS

2

During the question period on the individual vouchers in the above listing, the Board noted items relating to the Mineral Industries Bulletin and Prospector Service activities performed by the CSMRI and asked unofficially that these be reviewed to insure that the services are currently valuable and properly effected. A report will be made at a later Board meeting. ✓

Faculty Appointments. President McBride reviewed the new appointments made to the faculty as follows:

Wayne C. Hazen \$ 3,000  
Adjunct Professor of Metallurgical Engineering

John E. Wolgamott 14,000  
Research Engineer (Excavation Engineering  
and Earth Mechanics Institute)

Cooper B. Land 7,000  
Adjunct Associate Professor of Geology

Admissions. There was distributed a recent tabulation of the status of admissions applications, acceptances, and denials. Dr. Gary noted that other engineering schools were reporting an increase in applications but a decline in acceptances. We are still expecting "100 more in '74" freshmen students than we had last year.

USGS Building. President McBride indicated that there was nothing new to report due to a delay within the USGS.

June Meeting in Aspen. President McBride reported on the approximate number of staff and faculty who would be attending and Dr. Alter outlined what he was planning for the round table discussion on Saturday. Dr. Alter said there were three or four subjects he had in mind for open discussion, mainly dealing with the major problems facing higher education in general and technical education in particular, and he intended, as moderator, to direct the discussions to these major concerns. ✓

For example, one of the questions is the matter of the over-supply of arts and science graduates and the under-supply of jobs available for these graduates; is it the purpose of higher education to train to meet specific manpower needs or to educate for living; how do we maintain the proper balance and to what extent are we training or educating students?

Another major concern Dr. Alter deems important for general discussion is the general area of communications, with emphasis on constituencies affected and the cybernetic aspects of communication, etc.

## RECORD OF PROCEEDINGS

3

Dr. Alter said he will mail out to participants some material which he hopes will be read before the June meeting.

Request for Academic Leave. President McBride presented a request from Dr. John V. Kline, Department of Physics, which had received the approvals of the Department Head, Dr. Bowersox, and of Dr. Gary, for an academic leave at three-quarters salary for the fall semester of the 1974-75 school year. President McBride concurred in this recommendation.

Upon motion made, seconded, and unanimously passed, the academic leave was approved.

1974-75 Budget. President McBride reported that the Long Bill is awaiting signature of the Governor. The Bill contains appropriations for CSM in the estimated total amount of \$7,146,921.

Upon motion made, seconded, and passed, President McBride was instructed and authorized in preparing the 1974-75 internal budget to deviate as necessary in minor respects from strict adherence to the line item budget breakdowns ostensibly embedded in the Long Bill.

Tuition. Upon motion made, seconded, and passed, the Board established the following tuition rates, effective with the 1974-75 academic year.

| <u>Student Load</u> | <u>Resident</u> | <u>Nonresident</u> |
|---------------------|-----------------|--------------------|
| 9.5 or over         | \$238.00        | \$954.00           |
| 8.5 thru 9 sem/hrs  | 214.00          | 859.00             |
| 7.5 thru 8 sem/hrs  | 190.00          | 763.00             |
| 6.5 thru 7 sem/hrs  | 167.00          | 668.00             |
| 5.5 thru 6 sem/hrs  | 143.00          | 572.00             |
| 4.5 thru 5 sem/hrs  | 119.00          | 477.00             |
| 3.5 thru 4 sem/hrs  | 95.00           | 382.00             |
| 0 thru 3 sem/hrs    | 71.00           | 286.00             |

### Summer Session Field Courses

Resident           \$114.00  
Nonresident        396.00

### Summer Session Academic Courses

Rates for the academic summer session will be the same as for the regular academic semester.

### Intensive English Course for Foreign Engineering Students

\$678.00

May 3, 1974

## RECORD OF PROCEEDINGS

4

SB 50. President McBride reported that the bill will be signed by the Governor on May 8, 1974.

Candidates for Degrees. President McBride distributed lists of candidates for degrees as recommended by the faculty at the meetings on March 27, 1974 and April 17, 1974.

Upon motion made, seconded, and unanimously passed, the following were approved for degrees on the dates specified, subject to the completion of all academic requirements and continued compliance with school requirements and regulations.

May 10, 1974

### BACHELOR OF SCIENCE (MINING ENGINEERING)

|                             |                            |
|-----------------------------|----------------------------|
| Aitken, Murray McGregor     | Jones, Bruce Gerald, Jr.   |
| Babcock, John Garrison      | Kelly, Thomas Richard      |
| Barron, Lance Russell       | King, Robert P.            |
| Beiden, Ronald Dene         | Kyle, John Ira             |
| Brooks, Grant D.            | LaPrairie, Richard Green   |
| Byrd, Robert Lee            | Lockett, Ronald James      |
| Coates, James Albert        | Malejan, Todd Harry        |
| Dasso, Alfonso Ballon       | McGolden, Michael Lee      |
| Elder, James Michael        | Nethery, Jonathan Theodore |
| Geyer, James Paul           | Nielsen, Peter Anthony     |
| Gradisar, John Stanley, Jr. | O'Connor, Timothy Joseph   |
| Guenther, Benjamin Wayne    | Pendleton, Paul Scott      |
| Hanley, James Edward, Jr.   | Plate, Thomas Henry        |
| Harnish, Wrex Eugene        | Schmuck, Carl Howard       |
| Hart, John Wesley           | Sykes, Raymond Glen, Jr.   |
| Harvey, Hugh Edward, Jr.    | Tjossem, Thomas Lester     |
| Hayes, Craig J.             | Wilkinson, Gary Alan       |
| Hettinger, David Allyn      |                            |

### ENGINEER OF MINES

Brown, Jay Y.  
Chirnside, William

### BACHELOR OF SCIENCE (METALLURGICAL ENGINEERING)

|                              |                               |
|------------------------------|-------------------------------|
| Boley, Daniel Curtis         | Mittan, Richard David         |
| Dixon, Duane E.              | O'Kelley, Conrad Brock        |
| Fuchs, Kenneth Paul          | Packard, Carol Louise         |
| Heindselman, Verle John, Jr. | Parkinson, Robert Gene, Jr.   |
| Huffman, John Earl           | Reilly, Thomas Augustine, Jr. |
| Mitchel, Scotty Ray          | Taylor, Patrick Rodger        |

### BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

|                         |                          |
|-------------------------|--------------------------|
| Alexander, Craig S.     | Duncan, Michael F.       |
| Alley, William McKinley | Erickson, Richard Arthur |
| Beahm, Douglas Lee      | Evans, Jack Arnold       |
| Behnke, Russell Ernest  | Frost, James C.          |
| Coyles, Joseph Michael  | Indraprasart, Manohai    |
| Davis, Aaron Joe        | Gray, Lewis Bryan        |
| Dlouhy, John Francis    | Henrickson, Dean A.      |
| Dowdell, Charles Alan   | Herold, Christopher Eric |

May 3, 1974

## RECORD OF PROCEEDINGS

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|                             |                              |
|-----------------------------|------------------------------|
| Homenuke, Alexander Michael | Rense, John Alexander Luther |
| Kemp, Craig C.              | Rounding, Carl Frederick     |
| Mignogna, Richard Peter     | Samland, William Emil, II    |
| Nydegger, Gary Lee          | Sandrin, James Joseph        |
| Olsen, Thomas William       | Steinberg, Fred Howard       |
| Otto, Robert Paul           | Stone, Samuel Alan           |
| Pardi, Marcus John          | Stratton, Joan Victoria      |

### BACHELOR OF SCIENCE (PETROLEUM ENGINEERING)

|                                |                          |
|--------------------------------|--------------------------|
| Bauer, Gary Lawrence           | Nelms, Ralph Lee         |
| Crouch, C. Brad                | Pfaff, Andrew John       |
| Ernest, Marc Douglas           | Presenkowski, Donald Lee |
| Gilbert, Steven Duane          | Trott, James Colbert     |
| Griebing, Richard Tremlett     | Ward, Douglas Merrill    |
| Lebsack, James Stephen         | Weege, William David     |
| Malkewicz, Stephen Edward, Jr. | Weisgram, John Arthur    |
| McGoffin, Steven Johns         | Schlabaugh, James Lee    |

### BACHELOR OF SCIENCE (CHEMICAL & PETROLEUM-REFINING ENGINEERING)

|                            |                             |
|----------------------------|-----------------------------|
| Alfrey, Robert Michael     | Light, Jan Dana             |
| Anderson, Cheryl Elaine    | Martin, Richard Duke        |
| Baine, Micheline L. Honer  | McDaniel, Charles Tennyson  |
| Barrow, John Albert        | Mohammadi, Shamseddin Seyed |
| Beach, Leonard Ronald      | Monson, Bruce John          |
| Benko, Robert Nicholas     | Moser, Gregg Michael        |
| Bogadi, Jay Steven         | Ponikvar, David John        |
| Caldwell, Liesa Karel      | Powers, James Joseph, III   |
| Compton, Albert Charles    | Quintanilla, Leonila Rivera |
| Dayton, John Scott         | Reese, Curtis Elmer         |
| Douglass, Kenneth L.       | Roe, Donald Ellis           |
| Fritzler, Eugene Alexander | Seeliger, William John      |
| Gertenbach, Dennis Donald  | Weimar, William Charles     |
| Kissack, William Wade      |                             |
| Koltz, Robert Craig        |                             |
| Kyrias, Michael Dennis     |                             |
| Lew, Lawrence Edward       |                             |

### BACHELOR OF SCIENCE (GEOPHYSICAL ENGINEERING)

|                           |                       |
|---------------------------|-----------------------|
| Crompton, James Scott     | Money, Nancy Rose     |
| Dalton, William K.        | Robb, Gregory Allan   |
| Farinelli, Kenji Costanzo | Simms, Steven Casey   |
| Given, Jeffrey Wayne      | Sinton, John Blatnik  |
| Lenz, Gary Lloyd          | Smagala, Thomas M.    |
| Louie, Russell Jay        | Squires, Stewart Gene |
| Mahlberg, Lawrence Lee    | Stults, Michael Lee   |
|                           | Windels, Robert Alan  |

### BACHELOR OF SCIENCE (MINERAL ENGINEERING-CHEMISTRY)

|                              |                          |
|------------------------------|--------------------------|
| Blumer, David James          | Schlager, Richard Johann |
| Dorr, Paul Edgar             | Schlottig, Karl John     |
| Hill, Carol Virginia         | Selk, Bruce Wayne        |
| Lockman, William Thomas, Jr. |                          |



RECORD OF PROCEEDINGS

6

BACHELOR OF SCIENCE (MINERAL ENGINEERING-MATHEMATICS)

|                        |                         |
|------------------------|-------------------------|
| Baylis, James Harold   | Melsen, Thomas Wayne    |
| Burford, Joseph Ellery | Monchak, Daniel Paul    |
| Coates, Vivian Kay     | Parrott, Kenneth Ray    |
| Couch, John Charles    | Raymond, William Dale   |
| Gaschler, Ronald Lee   | Simmons, David Franklin |
| Gibson, Thomas, III    | Strahl, Roger David     |
| Jackson, Terry Lee     | Streeter, Sherriane     |
| Kaup, Gregory Lynn     |                         |

BACHELOR OF SCIENCE (MINERAL ENGINEERING-PHYSICS)

|                        |                      |
|------------------------|----------------------|
| Deane, John Darnell    | Leever, Gary William |
| Fahlsing, Richard Fred | Marek, John Markham  |
| Haynie, Kenneth Clare  | Rymes, Martin Dale   |
| Johnson, Lawrence Alan |                      |

June 22, 1974

BACHELOR OF SCIENCE (MINING ENGINEERING)

Livingston, Thomas O., Jr.

BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

Bertoldi, Michael Joseph

BACHELOR OF SCIENCE (CHEMICAL & PETROLEUM-REFINING ENGINEERING)

Arce, Javier Antonio

BACHELOR OF SCIENCE (MINERAL ENGINEERING-CHEMISTRY)

Karbs, Michael Jon

BACHELOR OF SCIENCE (MINERAL ENGINEERING-MATHEMATICS)

|                 |                      |
|-----------------|----------------------|
| Dash, Zora Vail | Kirkland, Walter Rip |
|-----------------|----------------------|

BACHELOR OF SCIENCE (MINERAL ENGINEERING-PHYSICS)

Starbuck, Donald Glenn

August 17, 1974

BACHELOR OF SCIENCE (METALLURGICAL ENGINEERING)

Ramos Barnola, Hector Gustavo

BACHELOR OF SCIENCE (PETROLEUM ENGINEERING)

|                              |                       |
|------------------------------|-----------------------|
| Anderson, Charles David, Jr. | Mason, Donald Francis |
| Cox, Dave Olvir              |                       |

BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

Obernolte, Frederick William, Jr.

May 3, 1974

BACHELOR OF SCIENCE (CHEMICAL & PETROLEUM-  
REFINING ENGINEERING)

Dover, Michael Alan

Giroux, Victor Antone

BACHELOR OF SCIENCE (GEOPHYSICAL ENGINEERING)

Fahlsing, Richard Fred

BACHELOR OF SCIENCE (MINERAL ENGINEERING - MATHEMATICS)

Taylor, Patrick Rodger

May 10, 1974

MASTER OF SCIENCE (METALLURGICAL ENGINEERING)

Erfurdt, Richard Jack

Mills, Christopher

Minick, George Albert

MASTER OF SCIENCE (GEOLOGY)

Crewdson, Robert Alan

Krish, Edward J.

Lisle, Richard Earl

Metzger, Chris William

MASTER OF SCIENCE (PETROLEUM ENGINEERING)

Aldrich, Charles Stewart

MASTER OF SCIENCE (CHEMICAL AND PETROLEUM-REFINING  
ENGINEERING)

Dávalos Grijalva, Juan Carlos

Long, Richard J.

Rao, V. Srinivasan

MASTER OF SCIENCE (GEOPHYSICAL ENGINEERING)

Ahmed, Adnan Ali

Erol, Vasfi

Lee, Chong Yan

MASTER OF SCIENCE (CHEMISTRY)

Dabestani Ziabari, Said S.M.

Rostad, Robert R.

MASTER OF SCIENCE (GEOCHEMISTRY)

Cain, Douglas

MASTER OF SCIENCE (MATHEMATICS)

Brown, Richard J.

Linck, Keith Roger

Nelson, Duane Francis

Patten, Lynn Ray

Tulk, Thomas Kevin

MASTER OF SCIENCE (PHYSICS)

Morrone, Anthony Louis

May 3, 1974

## RECORD OF PROCEEDINGS

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### MASTER OF SCIENCE (MINERAL ECONOMICS)

Blount, William H. Jr.                      D'Elia Bermudez, Freddy  
Bonhomme, Emmanuel Jean Gerald      Goldblatt, William Martin  
Collins, Richard Joseph                  Kelley, John James  
DaPai, George Salameh                      Speltz, Charles Nicholas

### DOCTOR OF PHILOSOPHY (METALLURGICAL ENGINEERING)

Fiftal, Conrad Franklin

### DOCTOR OF PHILOSOPHY (GEOLOGY)

Knepper, Daniel H. Jr.                      Spoelhof, Robert William  
Raines, Gary Lee                              Taylor, Andrew Malcolm

### DOCTOR OF PHILOSOPHY (GEOLOGICAL ENGINEERING)

Ranta, Donald Eli

### DOCTOR OF PHILOSOPHY (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Linck, Keith Roger

### DOCTOR OF PHILOSOPHY (GEOPHYSICS)

Murray, John Charles

### DOCTOR OF PHILOSOPHY (GEOPHYSICAL ENGINEERING)

Applegate, James Keith                      Fatti, Jan Louis  
Bedwell, John Lewis                          Ohya, Takashi  
Daniels, Jeffrey J.

### DOCTOR OF PHILOSOPHY (GEOCHEMISTRY)

Pyrih, Roman Zenon

Faculty Memorials. The Board agreed that preliminary work could be started on this but asked that it appear again on the July agenda.

Investment Committee. Dr. Scott distributed copies of preliminary information received from four financial institutions. He stated he felt the fees could be negotiated. The question was posed as to whether the Board of Trustees has statutory power to delegate the discretionary management of the School's investments.

The matter is to be researched.

The matter was postponed to the July meeting.

Financial Statements. Mr. Scott distributed the monthly statements as follows: Summary for Budget Appropriations & Disbursements, April 30, 1974; Budget Summary for Open End Bond Issue, April 30, 1974; Budget Summary for 1966 Bond Issue, April 30, 1974; Budget Summary for State Rental Properties, April 30, 1974; Budget Summary for Health & Accident, April 30, 1974; Budget Summary for CSM Athletic Association, April 30, 1974;

May 3, 1974

Assistant Secretary

The meeting adjourned at 12:00 noon.

Budget Summary for Associated Students, April 30, 1974; and  
Office of Research Services Contract Funds, April 30,  
1974.

# Colorado School of Mines

golden, colorado 80401 • (303) 279-3381



metallurgical engineering department

May 2, 1974

The Board of Trustees  
Colorado School of Mines

Gentlemen:

The Graduate Student Association would like to provide the following suggestions to the Board of Trustees of the Colorado School of Mines:

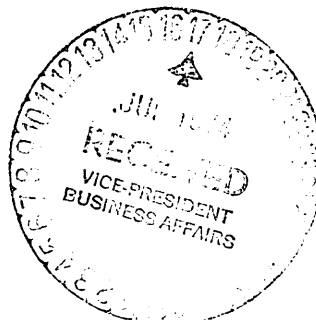
- (i) that the graduate students be relieved from the following fees assessed at registration
  - a) Athletic fee
  - b) Associated Students fee
- (ii) that the student insurance fee be made optional to graduate students who have other sufficient insurance coverage.

It is felt that the abovementioned fees are not benefiting, and will not benefit, the graduate students at the Colorado School of Mines, and it is for this reason that we request that graduate students be relieved of the same.

Yours faithfully,

Chris Mills  
President  
Graduate Student Association

cc: Guy T. McBride, Jr., President  
W. D. Copeland, Dean, Graduate School  
W. Gordon Scott, Vice President,  
Business Affairs



RECEIVED

MAY 2 1974

PRESIDENTS OFFICE

COLORADO SCHOOL OF MINES

INTER-DEPARTMENT COMMUNICATION

TO President Guy T. McBride, Jr.

FROM Gordon Scott *JWS*

SUBJECT Fees

DATE June 12, 1974

Following the presentation of the budgets for the Student Association and the Student Health and Accident Program, a request will be made to change the supporting fees as follows:

Student Association

Raise the fee to \$9.50 per student per semester from the present \$9.00. This request is in accord with the letter dated April 26, 1974 from Mr. James H. Thames, copy attached.

Student Health & Accident

Increase fees per semester, as follows:

|                           | Basic<br>Health Fee | Insurance*<br>Fee | Present<br>Comprehensive |
|---------------------------|---------------------|-------------------|--------------------------|
| Fall and Spring Session   | \$12.00             | \$22.50           | \$16.00                  |
| 1st Field Session         | 4.50                | 7.50              | 5.50                     |
| 2nd Field Session         | 4.50                | 7.50              | 5.50                     |
| Academic Summer Session   | 6.00                | 10.00             | 7.00                     |
| Intensive English Session | 10.00               | 15.00             | 12.50                    |

\* The insurance portion of the program is mandatory with waiver allowed. A formal waiver of the right to participate in benefits will be required. Adult students may sign the waiver form; in the case of minor students, the parents signature will be required.



6. Project Name - Land Acquisition II

Project Description - Funds for the acquisition of the balance of property not owned by the Colorado School of Mines in Block 49 - Lots 1, 2, and 3 (southwesterly 1/3 blocks), South Side of Clear Creek, City of Golden.

Total Cost \$ 33,000.00

Request for 1975-76 \$ 33,000.00

7. Project Name - Land Acquisition III

Project Description - Funds in the amount of \$38,500.00 are requested to complete the purchase of Lot 7, Block 60, South side of Clear Creek, City of Golden.

Total Cost \$ 38,500.00

Request for 1975-76 \$ 38,500.00

8. Controlled Maintenance Projects -

A. Project Description - Repair of West Campus Roads, Gutters and Sidewalks.

Total Cost \$ 28,000.00

Request for 1975-76 \$ 28,000.00

B. Project Description - Repair of campus sidewalks, curbs, and gutters.

Total Cost \$ 3,500.00

Request for 1975-76 \$ 3,500.00

C. Project Description - Replace Poles and Power Line to the "M".

Total Cost \$ 19,600.00

Request for 1975-76 \$ 19,600.00

D. Project Description - Vent and add Expansion Joints to Green Center roof.

Total Cost \$ 6,720.00

Request for 1975-76 \$ 6,720.00



E. Project Description - Tuck Point Library Entry Ways.

|                     |    |          |
|---------------------|----|----------|
| Total Cost          | \$ | 4,500.00 |
| Request for 1975-76 | \$ | 4,500.00 |

F. Project Description - Replace Guggenheim Hall roof.

|                     |    |           |
|---------------------|----|-----------|
| Total Cost          | \$ | 22,500.00 |
| Request for 1975-76 | \$ | 22,500.00 |

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**RECORD OF PROCEEDINGS**

B-1

|  |          |
|--|----------|
| William R. Astle<br>Assistant Professor of Mathematics   | \$15,350 |
| Henry A. Babcock<br>Professor of Basic Engineering and Head<br>of Department                     | 22,090   |
| Charles Baer<br>Assistant Professor of Mathematics   | 12,200   |
| Alfred H. Balch<br>Associate Professor of Geophysics   | 17,600   |
| Brian Ball<br>Assistant Professor of Metallurgical<br>Engineering                                | 14,400   |
| Geraldine D. Bariani<br>Librarian  | 12,500   |
| Daniel M. Bass<br>Professor of Petroleum Engineering and<br>Head of Department                   | 23,530   |
| George T. Bator<br>Professor of Mining Engineering   | 21,200   |
| Victor W. Bauman<br>Associate Professor of Mathematics   | 15,200   |
| Ramon E. Bisque<br>Professor of Chemistry and Head of<br>Department (academic leave, 1/2 salary) | 22,050   |
| Harold Bloom<br>Associate Professor of Geology   | 16,360   |
| Ardel J. Boes<br>Associate Professor of Mathematics  | 17,300   |
| Ralph B. Bowersox<br>Professor of Physics and Head of Department                                 | 22,100   |
| Walter L. Bradley<br>Associate Professor of Metallurgical Engineering                            | 17,260   |
| Fritz S. Brennecke<br>Professor and Head of Department, Physical<br>Education and Athletics      | 20,770   |
| Austin R. Brown, Jr.<br>Director of Computing Center and Professor<br>of Mathematics             | 23,900   |
| James T. Brown<br>Associate Professor of Physics   | 15,910   |

June 14, 1974

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**RECORD OF PROCEEDINGS**

B-2

|  |          |
|--|----------|
| William Rex Bull<br>Associate Professor of Metallurgical Engineering   | \$18,400 |
| H. Dean Burdick<br>Director of Admissions  | 19,130   |
| Jerrold J. Burnett<br>Associate Professor of Physics   | 17,300   |
| Robert H. Carpenter<br>Professor of Geology  | 18,800   |
| W. John Cieslewicz<br>Assistant Professor of Humanities and Social<br>Sciences and Assistant Professor of Mineral<br>Economics | 13,000   |
| Bernetta Conrey<br>Departmental Assistant  | 11,600   |
| W. D. Copeland<br>Dean of the Graduate School and Professor of<br>Metallurgical Engineering                                    | 24,000   |
| Catharine S. Cross<br>Librarian  | 11,700   |
| Stephen R. Daniel<br>Assistant Professor of Chemistry  | 13,530   |
| James Darden<br>Associate Professor of Physical Education and<br>Athletics   | 16,900   |
| Joseph E. Davies<br>Professor of Physical Education and Athletics  | 16,900   |
| Richard H. De Voto<br>Associate Professor of Geology   | 16,050   |
| Dean W. Dickerhoof<br>Professor of Chemistry   | 17,090   |
| Donald I. Dickinson<br>Associate Professor of English  | 15,800   |
| Philip F. Dickson<br>Professor of Chemical and Petroleum-Refining<br>Engineering and Head of Department                        | 21,400   |
| Kenneth W. Edwards<br>Associate Professor of Chemistry   | 14,550   |
| Rudy C. Epis<br>Professor of Geology   | 19,770   |
| Elsie Christine Ericson<br>Librarian   | 11,100   |

June 14, 1974

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**RECORD OF PROCEEDINGS**

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B-3

|   |          |
|---|----------|
| Robert R. Faddick<br>Associate Professor of Basic Engineering   | \$16,460 |
| L. David Femmer<br>Budget Officer and Personnel Officer   | 19,500   |
| Joseph J. Finney<br>Professor of Geology  | 18,900   |
| Edward G. Fisher<br>Professor of English  | 19,050   |
| S. Dale Foreman<br>Associate Professor of Basic Engineering and<br>Affirmative Action Officer                           | 16,580   |
| Charles O. Frush<br>Associate Professor of Mining Engineering   | 16,200   |
| James H. Gary<br>Vice President for Academic Affairs and<br>Professor of Chemical and Petroleum-Refining<br>Engineering | 33,000   |
| Richard D. Gauthier<br>Assistant Professor of Basic Engineering   | 16,680   |
| Donald W. Gentry<br>Associate Professor of Mining Engineering   | 16,100   |
| John O. Golden<br>Associate Professor of Chemical and Petroleum-<br>Refining Engineering                                | 17,820   |
| L. T. Grose<br>Professor of Geology   | 19,650   |
| Raymond R. Gutzman<br>Associate Professor of Mathematics  | 15,800   |
| Frank A. Hadsell<br>Professor of Geophysics   | 19,280   |
| John P. Hager<br>Professor of Metallurgical Engineering   | 20,640   |
| David W. Hall<br>Associate Professor of Chemistry   | 15,200   |
| John W. Hancock<br>Associate Professor of Physical Education<br>and Athletics   | 15,520   |
| John D. Haun<br>Professor of Geology  | 20,500   |

June 14, 1974

**RECORD OF PROCEEDINGS**

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|   |          |
|---|----------|
| Virginia Wilcox Herold<br>Head Librarian  | \$19,200 |
| Carl L. Hiltrop<br>Associate Professor of Chemistry   | 14,120   |
| John A. Hogan<br>Assistant Professor of English   | 13,700   |
| Ralph C. Holmer<br>Professor of Geophysics  | 22,330   |
| Robert M. Hutchinson<br>Professor of Géology  | 17,650   |
| Leonard L. Johnson<br>Assistant Finance Officer   | 12,800   |
| Thys B. Johnson<br>Professor of Mining Engineering and Head of<br>Department of Mining Engineering  | 21,000   |
| James G. Johnstone<br>Professor of Basic Engineering  | 19,100   |
| Leonard A. Kalal<br>Associate Professor of Philosophy   | 14,680   |
| Marvin L. Kay<br>Assistant Professor of Physical Education and<br>Athletics and Head Football Coach | 14,460   |
| Albert M. Keenan<br>Professor of Mining Engineering   | 19,300   |
| George V. Keller<br>Professor of Geophysics and Head of Department<br>of Geophysics                 | 23,700   |
| G. H. Kennedy<br>Associate Professor of Chemistry   | 16,000   |
| Harry C. Kent<br>Professor of Geology and Head of Department<br>of Geology                          | 23,300   |
| Arthur J. Kidnay<br>Associate Professor of Chemical and Petroleum-<br>Refining Engineering          | 17,180   |
| John V. Kline<br>Professor of Physics (academic leave, 3/4 salary)                                  | 18,260   |
| Ronald W. Klusman<br>Associate Professor of Chemistry   | 17,200   |

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**RECORD OF PROCEEDINGS**

B-5

|   |          |
|---|----------|
| Nancy J. Knepper<br>Museum Curator  | \$ 9,300 |
| Charles A. Kohlhaas<br>Associate Professor of Petroleum Engineering   | 15,100   |
| John O. Kork<br>Assistant Professor of Mathematics  | 13,970   |
| Thomas R. LaFehr<br>Associate Professor of Geophysics   | 19,180   |
| William B. Law<br>Associate Professor of Physics  | 15,360   |
| William E. Leckie<br>Assistant to the Vice President for Academic<br>Affairs and Director of the C.M.A. Summer<br>Program | 18,150   |
| Keenan Lee<br>Associate Professor of Geology  | 15,300   |
| Merrill M. Lemke<br>Director of Plant Facilities  | 19,500   |
| Leslie LeRoy<br>Professor of Geology  | 19,870   |
| Jack D. Lubahn<br>Professor of Basic Engineering  | 19,300   |
| George B. Lucas<br>Professor of Chemistry   | 20,100   |
| George Lynn<br>Adjunct Professor as Conductor of the Glee Club  | 2,200    |
| Earl K. Madsen<br>Adjunct Assistant Professor of Mineral Economics  | 2,200    |
| Maurice Major<br>Professor of Geophysics  | 21,500   |
| Donald C. B. Marsh<br>Professor of Mathematics  | 16,770   |
| James W. Martin<br>Associate Professor of Basic Engineering   | 17,220   |
| Scott J. Marshall<br>Assistant Professor of Basic Engineering   | 16,140   |
| Gerard P. Martins<br>Associate Professor of Metallurgical Engineering   | 16,100   |
| Warren J. Mason<br>Registrar  | 15,000   |

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**RECORD OF PROCEEDINGS**

B-6

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|--|----------|
| Jean P. Mather<br>Professor of Mineral Economics and Head of<br>Department                                     | \$22,550 |
| Frank Mathews<br>Professor of Physics  | 18,260   |
| David K. Matlock<br>Assistant Professor of Metallurgical Engineering   | 15,000   |
| William A. Mattingly<br>Assistant Professor of English   | 11,400   |
| R. W. McAllister<br>Associate Professor of Physics   | 17,850   |
| Robert S. McCandless<br>Assistant Professor of Physical Education<br>and Athletics                             | 13,000   |
| Michael B. McGrath<br>Chief Consultant for the Computing Center  | 16,900   |
| C. Samuel Miller<br>Associate Professor of Basic Engineering   | 15,470   |
| B. J. Mitchell<br>Associate Professor of Petroleum Engineering   | 17,150   |
| Fred E. Moore<br>Professor of Geology  | 19,000   |
| Charles S. Morris<br>Director of Public Relations  | 15,300   |
| Raymond K. Mueller<br>Assistant Professor of Mathematics   | 14,880   |
| Karl R. Nelson<br>Assistant Professor of Basic Engineering   | 12,460   |
| Karl R. Newman<br>Associate Professor of Geology   | 16,680   |
| Carl G. Nordquist<br>Assistant Professor of Mineral Economics  | 14,800   |
| David L. Olson<br>Assistant Professor of Metallurgical Engineering   | 16,000   |
| Robert W. Pearson<br>Assistant Professor of Physical Education and<br>Business Manager of Athletics            | 13,500   |
| Anton G. Pegis<br>Vice President for External Affairs and<br>Professor of English (academic leave, 1/2 salary) | 26,500   |

June 14, 1974

# RECORD OF PROCEEDINGS

B-7

|   |                 |
|---|-----------------|
| Gerald A. Peters<br>Coordinator for Public Information  | \$11,000        |
| Alfred Petrick, Jr.<br>Coulter Professor of Mineral Economics   | 23,350          |
| Thomas Philipose<br>Assistant Professor of Humanities and Social<br>Sciences  | 11,850          |
| Herman Ponder<br>Professor of Geology   | no compensation |
| Jon W. Raese<br>Director of Publications  | 13,000          |
| Phillip R. Romig<br>Assistant Professor of Geophysics   | 14,250          |
| Oded Rudawsky<br>Associate Professor of Mineral Economics   | 16,700          |
| Arthur Y. Sakakura<br>Associate Professor of Physics  | 17,300          |
| David W. Satterley<br>Data Processing Officer   | 19,000          |
| A. W. Schlechten<br>Alcoa Foundation Professor of Metallurgy and<br>Director of the Institute for Extractive Metallurgy | 25,700          |
| Franklin D. Schowengerdt<br>Assistant Professor of Physics  | 14,000          |
| William Gordon Scott<br>Vice President for Business Affairs   | 24,500          |
| Elwyn Shimoda<br>Assistant Professor of Chemical and Petroleum-<br>Refining Engineering                                 | 15,200          |
| Ruth B. Simon<br>Research Associate in Geophysics   | 14,750          |
| George T. Sisson<br>Laboratory Assistant in Chemistry   | 11,750          |
| Maynard Slaughter<br>Professor of Chemistry   | 20,600          |
| Margaret Smart<br>Librarian   | 14,000          |
| D. T. Snow<br>Associate Professor of Geology  | 17,650          |
| Richard E. Stapp, Jr.<br>Associate Professor of Physical Education and<br>Athletics                                     | 14,250          |

June 14, 1974



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**RECORD OF PROCEEDINGS**

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|--|--------|
| Charles W. Starks<br>Assistant Professor of Chemistry  | 14,050 |
| Franklin J. Stermole<br>Director of Research Development and Professor<br>of Chemical and Petroleum-Refining Engineering | 21,600 |
| Huntington S. Swanson<br>Associate Professor of Mineral Economics  | 15,760 |
| Robert J. Taylor<br>Assistant Professor of Basic Engineering   | 13,500 |
| John C. Thomas<br>Research Associate, Department of Chemical and<br>Petroleum-Refining Engineering                       | 10,820 |
| Paul T. Treece<br>Manager of the Computing Center  | 12,500 |
| David W. Trexler<br>Associate Professor of Geology   | 15,830 |
| A. Keith Turner<br>Assistant Professor of Geology  | 14,350 |
| Frank R. Utter<br>Finance Officer  | 18,600 |
| Samuel E. Vandiver<br>Professor of Humanities and Social Sciences<br>and Head of Department                              | 20,400 |
| Robert A. Walsh<br>Professor and Head of the Department of<br>Mathematics  | 20,000 |
| Fun-Den Wang<br>Associate Professor of Mining Engineering  | 17,000 |
| Robert J. Weimer<br>Professor of Geology (academic leave, 1/2 salary)  | 21,800 |
| Walter W. Whitman<br>Professor of Mathematics  | 19,300 |
| Thomas Wildeman<br>Associate Professor of Chemistry  | 15,450 |
| John T. Williams<br>Professor of Chemistry and Acting Head of<br>Department of Chemistry                                 | 21,100 |
| R. D. Witters<br>Associate Professor of Chemistry  | 15,500 |
| Robert E. D. Woolsey<br>Professor of Mineral Economics   | 20,300 |

June 14, 1974

## RECORD OF PROCEEDINGS

B-9

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|  |          |
|--|----------|
| F. Richard Yeatts  | \$16,020 |
| Associate Professor of Physics   |          |
| Victor F. Yesavage   | 14,530   |
| Assistant Professor of Chemical and Petroleum-<br>Refining Engineering |          |

June 14, 1974

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## RECORD OF PROCEEDINGS

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Golden, Colorado  
July 12, 1974

The Board of Trustees met in regular session in the Board Room, Colorado School of Mines, at 9:30 a.m., July 12, 1974.

Present: Messrs. Alexander, Bradley, Eisenach, Fogarty, and Reeves.

Absent: Messrs. Coors and Stockmar.

President McBride, Dr. Alter (consultant), Dr. Gary, Mr. Scott, and Dr. Culver attended the meeting.

Mr. Bradley, Vice President of the Board, presided.

Previous Minutes. The minutes of the meeting held on June 14, 1974 were approved.

Notification of Vouchered Payments. A listing of the vouchered payments for the period June 1, 1974 to June 28, 1974 was distributed. Mr. Scott reported that as requested at the June 14, 1974 meeting, he had examined the statutes and had not found that the Board of Trustees has a specific responsibility to examine the listing of vouchers or the vouchers themselves. ✓

Mr. Bradley asked that Mr. Scott secure an opinion from the Attorney General on the responsibilities of the Board of Trustees in relation to the vouchers. ✓

Mr. Bradley asked Mr. Scott to inquire of the Attorney General if a member of that staff could be assigned to the School. Mr. Scott said we did not have a designated member of the staff assigned to represent us but rather had been instructed to report directly to Mr. Bush, second to Mr. Moore.

New Faculty Appointments. President McBride reported the recent appointments to the faculty as follows:

|   |          |
|---|----------|
| Suzanne Tharp<br>Circulation Librarian                    | \$ 9,300 |
| Rich D. McDaniel<br>Adjunct Professor - Conductor of Band | 1,800    |
| A. William Young<br>Co-Director of Admissions             | 15,000   |

July 12, 1974

## RECORD OF PROCEEDINGS

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Admissions. A status report of the admissions count as of July 1, 1974 was given, indicating a reasonable expectation that there would be 100 new students, freshmen and transfers, this fall.

It was recognized that housing is a significant problem. Dr. Culver reported on measures in hand to aid new students in securing housing and to develop longer range solutions.

USGS. Mr. Scott said we were continuing to negotiate with the USGS and the GSA and also the bonding company. He said even though the bond market was depressed at this time, we could do some early planning with the GSA before we actually engaged an architect. In view of the fact there will not be another Board meeting for two months and in order not to lose time and momentum, President McBride asked authority to commit \$3,000-\$4,000 for professional advice as needed on preliminary plans for the building.

Upon motion made, seconded, and passed President McBride was authorized to proceed in this preliminary approach to the building planning.

Property, 19th Street. President McBride called the attention of the Board to a campus map showing the area on 19th Street which has rock cabins owned by the CSM Foundation and a small stucco building owned by a private citizen. President McBride recommended that the School purchase from the CSM Foundation the rock cabins and from the private citizen the stucco building. He recommended that both structures then be demolished in order to enhance the entrance to the campus.

It was moved, seconded, and passed that the following resolutions be adopted:

WHEREAS the Master Plan for the Colorado School of Mines calls for complete ownership of that property bounded by Illinois Street on the east, Nineteenth Street on the south, Welch Ditch on the west, and Eighteenth Street on the north, and

WHEREAS a parcel of land described as Lots 7, 8, and 9, Block 102, South Golden Subdivision, City of Golden, County of Jefferson, State of Colorado, known as 1112 Nineteenth Street, is now made available by its owner for purchase, and

WHEREAS the Board of Trustees of the Colorado School of Mines has deemed this purchase to be appropriate to the purposes of this School:  
Therefore be it

## RECORD OF PROCEEDINGS

3

RESOLVED, That the President of the Colorado School of Mines is authorized to buy the property described above for the sum of \$31,153.50 and that the President is empowered to make such purchase on behalf of the State of Colorado for the use and benefit of the Colorado School of Mines, using funds which have been donated to the Colorado School of Mines with a stated purpose consistent with this use or donated to the Colorado School of Mines with no restrictions as to their use.

\* \* \* \* \*

WHEREAS the Master Plan for the Colorado School of Mines calls for complete ownership of that property bounded by Illinois Street on the east, Nineteenth Street on the south, Welch Ditch on the west, and Eighteenth Street on the north, and

WHEREAS a parcel of land described as Lot 10, Block 102, South Golden Subdivision, City of Golden, County of Jefferson, State of Colorado, known as 1108 Nineteenth Street, is now made available by its owner for purchase, and

WHEREAS the Board of Trustees of the Colorado School of Mines has deemed this purchase to be appropriate to the purposes of this School: Therefore be it

RESOLVED, That the President of the Colorado School of Mines is authorized to buy the property described above for the sum of \$14,500 and that the President is empowered to make such purchase on behalf of the State of Colorado for the use and benefit of the Colorado School of Mines, using funds which have been donated to the Colorado School of Mines with a stated purpose consistent with this use or donated to the Colorado School of Mines with no restrictions as to their use.

Operation of Green Center. There was distributed a memo from Mr. Carl Fawcett, Director of the Student Center, in which was outlined three alternatives on the operation of this building: (a) operate the building as an auxiliary enterprise, self-maintaining, hopefully; (b) operate the building as a quasi-academic building, thus obligating the School for a portion of the maintenance; (c) limiting use of building and employing technicians only for actual use.

On questioning, President McBride reported that the School has been operating under the policy that the School derived substantial good from professional seminars held on campus and that costs to these professional groups should therefore be kept to a bare minimum. It was suggested that organizations and professional societies could and would pay full cost for the use of the building and the building might very well be operated as a fully self-maintained property.

July 12, 1974

## RECORD OF PROCEEDINGS

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It was moved, seconded, and passed that Option (a) above be adopted for the maintenance of the Green Center. ✓

Mineral Industries Bulletin. The publication of the Mineral Industries Bulletin was discussed. It was generally agreed that the Bulletin was of fine quality and a worthwhile expenditure of funds. ✓

Prospector Service. The service, mainly mineral identification, free to Colorado residents, was considered worthwhile and it was recommended that the service be expanded and publicized and an attempt to be made to secure better financing from the State. ✓

Investments. Mr. Scott reported on work he has done on the fiduciary responsibilities of the Board. He said we have been using the advice obtained by the CSM Foundation Investment Committee for the proper investment of School funds. He said although some latitude is allowed under H.B 1006, the Board cannot delegate total responsibility for funds under the control of the School. ✓

Mr. Scott distributed a listing of short term investments showing interest presently earned and maturity dates, also a listing of securities and pooled investments at cost. ✓

Mr. Scott said he would like the authority to move these funds into higher interest bearing investments with staggered maturity dates. The Board approved this with the stipulation that the move be to safe -- sufficiently pledged securities, or government notes.

Galbraith Memorial. President McBride recalled that at the May meeting several students had presented a proposal that a rock plinth memorial be constructed in honor of the late alumnus, Den Galbraith, some place on Stratton Commons. President McBride said that he and the administrative staff had reflected on the matter and he was recommending to the Board that instead of a rock memorial a plaque be placed in a building frequented by the students. The cafeteria was suggested. ✓

1975-76 Budget. President McBride said that with the parameters given at the June 14 meeting, and minor changes occasioned by recent circumstances, a budget has been prepared for submittal July 22. Copies were distributed.

Upon motion made, seconded, and passed, the budget for 1975-76 in the amount of \$9,055,678 was approved.

Monthly Reports. Mr. Scott distributed and discussed the monthly reports as follows: Balance Sheet, June 30, 1974; Summary for Budget Appropriations & Disbursements, as of June 30, 1974; Budget Summary for Open End Bond Issue, June 30, 1974; Budget Summary for 1966 Bond Issue, June 30, 1974; Budget Summary for State Rental Properties, June 30, 1974; Budget Summary for Health & Accident, June 30, 1974; Budget Summary for CSM Athletic Association, June 30, 1974; Budget Summary for Associated Students, June 30, 1974; Office of Research Services Contract Funds, June 30, 1974.

July 12, 1974

## RECORD OF PROCEEDINGS

2

|   |          |
|---|----------|
| Robert M. Baldwin<br>Half-time, Instructor in Chemical and<br>Petroleum-Refining Engineering, fall<br>semester  | \$ 2,700 |
| Lawrence A. Garfield<br>Adjunct Associate Professor of Mining<br>Engineering, fall semester   | 2,400    |
| Joan R. Hundhausen<br>Adjunct Assistant Professor of Mathematics  | 3,000    |
| Daniel H. Knepper<br>Research Associate in Geology  | 16,000   |
| William D. Lansdown<br>Adjunct Associate Professor of Basic<br>Engineering  | 4,000    |
| Laurence F. Morris<br>Counselor-Placement Officer   | 16,000   |
| William M. Mueller<br>Professor and Head, Department of<br>Metallurgical Engineering  | 24,400   |
| Harry C. Peterson<br>Professor of Basic Engineering<br>(Will be working three-quarters time<br>and salary will be reduced accordingly;<br>salary from CSM - \$14,325 for 1974-75<br>school year.) | 19,100   |
| Samuel B. Romberger<br>Assistant Professor of Geology   | 14,800   |
| Everett W. Stoub<br>Instructor in Physics, fall semester  | 5,000    |
| Thomas R. Young<br>Adjunct Assistant Professor of Mining<br>Engineering, fall semester  | 1,200    |
| Thomas L. Davis<br>Visiting Assistant Professor of Geophysics   | 13,200   |

The Board having by consensus assented to the proposed appointment of Dr. Mueller to be Head of the Department of Metallurgical Engineering, President McBride expressed pleasure at having been able to recommend so distinguished an appointment.

Vouchered Payments. As a result of the Board's previous request for an opinion regarding voucher approvals, Mr. Scott distributed a letter received from the Attorney General, which in part stated "that the matter of exercise of supervision by the Board ... is a matter within the discretion of the Board...." Mr. Scott recommended that the Board exercise financial control by means of the budget, approving the budget at the beginning of the fiscal year and approving major deviations thereafter. The Board so agreed, and monthly budget reports will be submitted for Board review. Mr. Scott was instructed to add his specific statement as to whether the School is operating within the budget.

September 13, 1974

## RECORD OF PROCEEDINGS

3

Enrollment. A report on enrollment was presented to the Board by Dr. Gary.

|   | Fall 1974   |             |             |             |             |
|---|-------------|-------------|-------------|-------------|-------------|
|   | <u>1970</u> | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1974</u> |
| New Freshmen                                    | 372         | 353         | 372         | 310         | 423         |
| New Freshmen Transfers                          | 3           | 4           | 3           | 10          | 14          |
| Upperclassmen Transfers                         | 54          | 84          | 85          | 58          | 101         |
| Total Undergraduates                            | 1325        | 1311        | 1308        | 1332        | 1500        |
| Total Graduate (Including Continuing Education) | 402         | 388         | 380         | 355         | 414         |
| Grand Total All Students                        | 1727        | 1699        | 1688        | 1687        | 1914        |
| Grand Total All New Students                    | 544         | 542         | 565         | 463         | 672         |

Dr. Gary pointed out that the particularly large increase in enrollment this fall was due to increase in the number of freshmen, women students, transfer students, and continuing education students, indicating confidence in the future of the mineral engineering profession. The increase in upperclassmen transfers was due, in part, to recognition of energy needs and also to increased recruiting effort at junior colleges.

Mr. Stockmar stressed the desirability of publicizing long standing recognition of the need for more personnel in the mineral industries and our intention to move toward larger enrollment in order to accomplish this; and he also stated that this fall's enrollment indicates that we are ahead of schedule, that our long-range plan might be a shorter-range plan, and that we are on the forefront of next year's enrollment consideration.

Property Purchased. Mr. Scott reported that the purchases of the two properties on Nineteenth Street in Golden (Lots 7, 8, & 9 and Lot 10) have been completed and the Colorado School of Mines now owns all the property facing Nineteenth Street in Block 102. The Board instructed that the property purchased be appropriately improved, and President McBride said that the buildings will be demolished and the property improved. ✓

Water and Sewerage Cost. Mr. Scott presented a tabulation of CSM water and sewerage costs and reported a 50 percent increase in 1973-74 over the previous year. The primary cause of the increase was the addition of a sewerage processing fee by the City of Golden. He also stated that CSM will be under-budgeted for all utilities as compared to last year's expenditures.

Leave of Absence. Leave of absence at no pay was granted to Dr. T. R. LaFehr for the fall semester of the 1974-75 academic year, with provision for extension through the spring semester 1974-75. ✓

Foreign Student Contract Instruction. President McBride presented to the Board for a determination of policy the question of foreign student contract instruction, particularly in regard to contracting for Venezuelan students awarded full scholarships in the United States by the Venezuelan Government, a large group of which is proposed to be sent to the Colorado School of Mines because of our long relationship with Venezuela and their need for technical expertise. President McBride asked for a full Board discussion. The School had been asked to take fifty students at the beginning of the program, and the probable maximum in school at any one time would be two hundred. ✓

September 13, 1974



## RECORD OF PROCEEDINGS

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Discussion was heard regarding tuition, fees, room and board, admissions, counselors, and related expenses which would be covered by a contract, and regarding possible sharing of capital costs. The use of a contract amount or an amount broken down by category was discussed, and whether inside the budget or in auxiliary budget. President McBride stated that he felt obligated to outline the problem to the legislators, with the permission of the Board, and discuss further with CCHE.

The Board was in general agreement to accept foreign student contract instruction. President McBride had distributed a copy of the current proposal between the School and Venezuela, and Mr. Alexander suggested gaining experience with this first group of approximately fifty students before making a major policy decision.

Commencement Speaker. Permission was given by the Board that Mr. Frank Shakespeare, Executive Vice President, Westinghouse (Broadcasting, Learning & Leisure Time), and previous Director of the United States Information Agency, be invited as Commencement Speaker for May, 1975. ✓

Authority to Sign Contracts for Governor. It was moved, seconded, and passed that the following resolution be adopted:

WHEREAS the Colorado Department of Administration, Division of Accounts and Control, has issued revised Fiscal Rules dated July 1, 1974; and

WHEREAS Chapter Seven, Section 1.0404, of the said Fiscal Rules defines Department Director as including "the principal persons authorized to act for the governing Boards of Instructions of Higher Education"; and ✓

WHEREAS further provisions of the said Fiscal Rules empower the Department Director to act in behalf of the Governor of the State of Colorado in contract matters; and

WHEREAS it is deemed desirable for the President of the Colorado School of Mines and members of his Executive Staff to be empowered to act as Department Director: Therefore be it

RESOLVED by the Board of Trustees of the Colorado School of Mines, That the President of the Colorado School of Mines, or in his absence any Vice President, hereby be designated as the principal person authorized to act for the Board in all matters of contract.

\* \* \*

Investment Committee. There was distributed by Mr. Scott an Investments Summary, dated August 31, 1974, a new format reflecting the pooling of various accounts.

Mr. Stockmar reviewed for the Board the past procedure of having an Investment Committee which took care of CSM and CSM Foundation investments and indicated that since the School is now separate from the Foundation a new investment procedure must be determined. He suggested moving funds into managed investments, in which case the School would have access to investment instruments which can be purchased or sold on a daily basis. After discussion it was the Board's decision to leave the funds as they are until they mature, and watch on a monthly basis. ✓

September 13, 1974

## RECORD OF PROCEEDINGS

5

### Subcommittee, Distinguished Achievement Medalists.

President McBride asked for direction in regard to the subcommittee for Selection of Distinguished Achievement Medalists, i.e., should the subcommittee remain the same or be reconstituted? For a broader coverage of disciplines, President McBride was asked to name additional members to the present subcommittee.

Monthly Reports. Mr. Scott distributed and discussed the monthly reports as follows: Summary for Budget Appropriations & Disbursements, as of August 28, 1974; Budget Summary for Open End Bond Issue, August 28, 1974; Budget Summary for 1966 Bond Issue, August 28, 1974; Budget Summary for State Rental Properties, August 28, 1974; Budget Summary for Health & Accident, August 28, 1974; Budget Summary for CSM Athletic Association, August 28, 1974; Budget Summary for Associated Students, August 28, 1974; Office of Research Services Contract Funds, August 28, 1974.

Mr. Scott reported that the fiscal operations are within the planned objective of the School.

President McBride informed the Board of the date of the 1975-76 Budget hearing before the staff of the Executive Budget Office: October 1, 1974, from 9:30 until 12 noon, in Room F at the State Capitol Building.

President McBride also announced that he had been advised by Dr. Schlechten, the Director of the W. J. Kroll Institute for Extractive Metallurgy, that the Metals Research Foundation, established by the Estate of Dr. W. J. Kroll, will present for the first time a zirconium medal to Admiral Rickover on Friday evening, March 21, 1975, at the Brown Palace Hotel.

The meeting adjourned at 11:30 a.m.

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Secretary

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## RECORD OF PROCEEDINGS

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Golden, Colorado  
October 11, 1974

The Board of Trustees met in regular session in the Board Room of the Colorado School of Mines, October 11, 1974, at 9:00 a.m.

Present: Messrs. Bradley, Coors, Eisenach, Fogarty, Reeves, and Stockmar.

Absent: Mr. Alexander.

President McBride, Dr. Alter (consultant), Dr. Gary, Dr. Culver and Mr. Scott attended the meeting.

Mr. Stockmar, President of the Board, presided.

Previous Minutes. The minutes of the meeting held on September 13, 1974 were approved.

CCHE/EBO Hearings. Mr. Stockmar called attention to the meetings scheduled for November 11, 12, and 13 which it is expected will give the School, and especially the members of the Board, an opportunity to express views on School problems, i.e. budget procedure, low faculty salaries, inordinate length of time required to obtain State approval for capital spending authority. It is hoped there will possibly be initiated some change in the budget procedure. It was pointed out that Mines is certainly not the only institution who has problems with the budget process.

New Faculty Appointments. Dr. Gary reviewed the new appointments made to the faculty as follows:

|   |         |
|---|---------|
| Robert C. Campbell<br>Part-time Instructor in<br>Mathematics (fall semester)                    | \$2,000 |
| Richard J. Fay<br>Adjunct Assistant Professor<br>of Basic Engineering                           | 6,900   |
| Larry R. Fisher<br>Part-time Instructor in<br>Humanities and Social Sciences<br>(fall semester) | 4,500   |
| Stanley M. Guralnick<br>Assistant Professor of<br>Humanities and Social Sciences                | 12,900  |

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|   |                      |
|---|----------------------|
| Lloyd J. Hendricks<br>Visiting Assistant Professor of<br>Chemistry                | \$12,000             |
| Raul Husid<br>Adjunct Senior Lecturer in<br>Department of Geophysics              | 2,055.56 (per month) |
| Norma F. Law<br>Adjunct Assistant Professor of<br>Mathematics (fall semester)     | 2,000                |
| Donald D. Snyder<br>Part-time Instructor in<br>Geophysics (fall semester)         | 1,500                |
| Dexter Strawther<br>Adjunct Assistant Professor<br>of Mathematics (fall semester) | 4,000                |
| John L. Wray<br>Adjunct Professor of Geology<br>(fall semester)                   | 1,700                |

Mention was made of the large number of part-time appointees. This is due to the larger than expected enrollment which left inadequate time to find suitable full-time and permanent faculty.

President McBride and Dr. Gary cited the increase in salaries in industry in the past several years and the impossibility of our being able to compete in salary and in total annual earnings for qualified men in the fields of mining engineering, metallurgy, and chemical and petroleum refining. The Board instructed the administration to document these facts for submittal to the CCHE hearings noticed above. By the same token, it was pointed out that in the fields of the arts and humanities, there is a surfeit of qualified persons. ✓

Cooperative Program in Education. There was a discussion of directly tying the product to the beneficiary, thus enlisting the financial support of industry in funding chairs in the fields from which they hire students. Mr. Coors and Mr. Reeves were enthusiastic about the possible development of a cooperative education program at Mines whereby students would go to school and work in industry during alternate periods, thus gaining their practical training before graduation. The students could then begin at higher salaries after graduation because their apprenticeship would already have been served. Dr. Fogarty pointed out specific companies who prefer to train new personnel in their own organizations and said he would like to discuss the entire concept with friends in industry. ✓

President McBride was instructed to obtain the experience record of other institutions who have cooperative educational programs and, based on this information together with Mines' conditions, to prepare a cooperative education proposal and recommendations.

Venezuelan Students. Dr. Gary reviewed the situation with regard to the 52 students from Venezuela who came September 15 under the aegis of the Venezuelan government through the Institute of International Education. These students are presently enrolled in remedial math and remedial chemistry as well as Intensive English. These students are not yet accepted for entrance, having been selected by a process in which we were not involved; the transcripts did not arrive in time for evaluation. They are living at the Golden Ridge Apartment complex and eating in the cafeteria. It is the intent to review the record here and qualifications prior to the end of the fall semester before admission is granted for the spring semester. It is also the intent of the School to assimilate these students into the general student body.

John G. Welles. President McBride reported that, following a telephone poll of Board members to secure approval, Mr. John G. Welles was offered and has accepted the Vice Presidency for Institutional Planning and Development. The date he can report is not yet certain, due to his obligations at the Denver Research Institute.

Commencement Speaker. President McBride reported that Mr. Frank Shakespeare, Executive Vice President, Westinghouse Electric Corporation, has accepted the invitation to be our 1975 Commencement speaker.

Faculty Collective Bargaining. President McBride called the attention of the Board to activities, as reported in newspapers, of the Regents and faculty at the University of Colorado to organize for collective bargaining. Acting on the belief that a bill will be introduced in the 1975 legislature, we have undertaken to direct the introduction of a bill tailored to higher education. The question was posed: How can we bargain on something over which we have no control, namely the budget?

Mr. Bradley offered to have his associate, familiar with the matter, present at the next meeting to discuss this subject.

Faculty Research Pay. Dr. Gary reviewed a statement of policy which, if approved, will become a part of the Faculty Handbook statement of policies.

## RECORD OF PROCEEDINGS

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In review, he said that previously no extra compensation has been paid to faculty members for work done on research contracts during the academic year. A portion of the contract cost total has been allocated to salary which has been used for extra personnel to relieve the work load of the faculty doing the research. Thus there has not been monetary incentive for the faculty members to engage in extra research work because they have not been compensated as they can be when they engage in outside consulting work. (N.B. Summer research contract compensation is available under current rules.)

President McBride and Dr. Gary proposed that faculty be eligible to receive extra compensation up to 20 percent of their base salary as overload compensation for performing duties in connection with sponsored research contracts under certain specific conditions. ✓

Upon motion made, seconded, and unanimously passed, the new policy was approved to be included in the forthcoming revision of the Faculty Handbook.

Naming "Old Gym" the Research Center. Upon the recommendation of President McBride, the "old gym" was officially named the Research Center. ✓

Sub-Committee for the Selection of Distinguished Achievement Medalists. President McBride reported that as instructed at the last meeting, he is recommending members from disciplines not previously represented, namely Professors James Johnstone and Albert Schlechten to be named to the sub-committee. ✓

Upon motion made, seconded, and passed, these new members were approved.

Proposed Supplemental Budget Request for 1974-75. President McBride said we are obligated to request a change in the appropriation made for the School for the 1974-75 academic year in view of the increased enrollment. Mines had budgeted for an FTE of 1,910 and now expects, basis fall enrollment, an FTE of 2,121. This additional faculty to be added are recommended at a faculty-student ratio of 20/1 as compared to our present 14/1 overall, but we can stand this for this one year because the increase in enrollment is at the present in the lower divisions where larger classes can be taught. For 1975-76 we must return to our 14/1 ratio. The amount of the supplement being requested is \$307,631 and documentation to support this request was distributed.

Revised Budget Request for 1975-76. Our budget request for 1975-76 has been revised due to the predicted increased enrollment. We expect to increase the freshman class by 100 students but we do not feel we will again receive the increase in transfer students experienced this year. There was also discussion regarding the cost-of-living figure to be used in calculating faculty

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salaries. It was concluded that the cost-of-living figure should be calculated at 12 percent and total faculty increase at 22 percent, and the budget request calculated accordingly.

Monthly Reports. Mr. Scott reported that the School is operating within our spending authority so far but we must have additional spending authority due to the great influx of new students.

Distribution was made of the monthly statements as follows: Summary for Budget Appropriations & Disbursements, September 30, 1974; Budget Summary for Open End Bond Issue, September 30, 1974; Budget Summary for 1966 Bond Issue, September 30, 1974; Budget Summary for State Rental Properties, September 30, 1974; Budget Summary for Health & Accident, September 30, 1974; Budget Summary for CSM Athletic Association, September 30, 1974; Budget Summary for Associated Students, September 30, 1974; Office of Research Services Contract Funds, September 30, 1974; Colorado Energy Research Institute, September 30, 1974; Publications, September 30, 1974; Special Programs, September 30, 1974; and Green Center, September 30, 1974.

The meeting adjourned at 12:15 p.m.

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Secretary

Office Copy

RECORD OF PROCEEDINGS

Golden, Colorado  
November 8, 1974

The Board of Trustees met in regular session in the Board Room of the Colorado School of Mines, November 8, 1974, at 9:00 a.m.

Present: Messrs. Bradley, Fogarty, Reeves, and Stockmar.

Absent: Messrs. Alexander, Coors, and Eisenach.

President McBride, Dr. Alter (Consultant), Dr. Gary, Mr. Scott and Dr. Culver attended the meeting.

Mr. Stockmar, President of the Board, presided.

Previous Minutes. The minutes of the meeting held on October 11, 1974, were approved.

New Faculty Appointments. Dr. Gary reviewed the new appointments made to the faculty as follows:

- Carol V. Dickinson \$4,500  
Part-time Instructor in Humanities and Social Sciences (fall semester)
- Margaret Ann Gall 4,500  
Part-time Instructor in Humanities and Social Sciences (fall semester)
- Lawrence D. Lynch 700 mo.  
Assistant Curator of Paleontology for the Geology Museum
- Richard I. Mayes 4,500  
Part-time Instructor in Humanities and Social Sciences (fall semester)
- John D. Wright 1,125  
Part-time Instructor in Petroleum Engineering (fall semester)

Trustee Representation at Diploma Ceremony, December 20. Mr. Bradley agreed to be present at the diploma ceremony on December 20, 1974, to accept the graduating class on behalf of the Board.

CCHE/EBO Meetings, November 11-13, 1974. Mr. Stockmar called the attention of the Board members to the first meeting of this series scheduled by CCHE



for November 11 to which governing board members had been especially invited to discuss problems facing higher education. Mr. Stockmar has been advised by the chairman of the CCHE that they desire input from governing board members. Our budget hearing of the series is scheduled for November 13, 1974, 9:00 - 10:00 a.m., Room D of the Capitol Building.

Collective Bargaining. Mr. Earl Madsen, a law partner of Mr. Bradley and an adjunct member of the faculty of the School, spoke informally on the subject of collective bargaining by public employees and members of the higher education community. He said the draft of the bill as now written does not apply exclusively to higher education but it is hoped to have one written in time for the legislature which convenes in January. Mr. Madsen mentioned the fact that collective bargaining bills have been introduced in the last several legislative sessions, but have not become law yet.

Mr. Madsen pointed out that even though in some cases where it has been held that governmental bodies do not have the power to enter into collective bargaining agreements, the fact remains that there are strikes and work stoppages in these areas. Also, where states by statute have authorized public employer-employee collective bargaining but made strikes of such employees illegal, such strikes have nevertheless occurred. Dr. Alter called attention to the policy of the Denver city employees dealing with the Denver City Council on the amount of salary benefits.

Mr. Madsen said that in states that have enacted legislation on the subject, once a contract has been signed between an employer and employee which contains a "no-strike" clause, strikes are illegal; the same is true generally where strikes occur during negotiations for a new contract and where safety and public health are endangered. But the rights of students who have paid tuition are not predicted to qualify as a staying factor.

President McBride said that the association of college and university presidents was working on a bill to present to the legislature which hopefully would protect the School and other colleges and universities as much as possible. Mr. Madsen volunteered to work with anyone who was designated to draft such bill.

The Board thanked Mr. Madsen for the work he had done and his excellent presentation and Mr. Madsen left the meeting at this time.

President McBride called attention to a meeting scheduled for November 25, 1974, 1:30 p.m. which has been called by CCHE to discuss collective bargaining.

Legislative Audit Committee Hearing. Attention was called to this meeting to be held on November 15, 1:30 - 3:30 p.m., Room D, State Capitol. Mr. Scott said an effort is being made to respond to past comments and recommendations. He said progress in machine adaptation has not been as rapid as hoped but was being made.

Preliminary Planning on Housing. Dr. Culver, Dean of Students, presented reports he has assembled on the housing problem existing on campus. He first determined from registration forms where the students are living right now. He then sent out questionnaires to students and has received replies from 500. He asked for opinions and preferences. Dean Culver has also been working with the Golden City Manager on the housing situation.

Dean Culver listed several conceptual alternatives and asked for directions: 1. Add additional floor on existing dormitories; 2. Lease existing apartments near campus; 3. Develop student cooperative housing; 4. Construct additional apartment-style dormitories; 5. Work with community to develop additional housing; and 6. Utilize mobile housing units with definite time limit.

After considerable discussion, the Board instructed Dean Culver and Mr. Scott to continue to explore all possibilities and to bring more information to the next Board meeting.

Monthly Reports. Mr. Scott presented the monthly reports in a new format. These reports were as follows: Summary Budget for CSM, as of October 31, 1974; Budget Summary for Educational and General Funds, as of October 31, 1974; Budget Summary for Dormitory System, as of October 31, 1974; Budget Summary for CSM Housing System, as of October 31, 1974; CSM Rental Properties, as of October 31, 1974; Budget Summary for Health & Accident Plan, as of October 31, 1974; Budget Summary for Intercollegiate Athletics, as of October 31, 1974; Office of Research Services, October 31, 1974; Budget Summary for Associated Students, as of October 31, 1974; Colorado Energy Research Institute, October 31, 1974; Publications, October 31, 1974; Special Programs, October 31, 1974; and Public Services, October 31, 1974.

Mr. Scott presented a new report which he said he intends to have prepared each month on investments. Mr. Scott asked for directions on the handling of \$318,000 in Certificates of Deposit which are maturing soon. After discussion, it was the consensus to reinvest in 90-day c.d.'s and have this item on the agenda for decision well in advance of expiration. Several members of the Board offered to check their financial sources for advice.

The meeting adjourned at 11:00 a.m.

Assistant Secretary

Office Copy

RECORD OF PROCEEDINGS

Golden, Colorado  
December 13, 1974

The Board of Trustees met in regular session in the Board Room of the Colorado School of Mines at 9:30 a.m., December 13, 1974.

Present: Messrs. Alexander, Bradley, Coors, Fogarty, Reeves, and Stockmar.

Absent: Mr. Eisenach.

President McBride, Dr. Alter (consultant), Dr. Gary, Mr. Scott, and Mr. Welles attended the meeting. A press representative and visitors were present.

Previous Minutes. The minutes of the meeting held on November 8, 1974 were approved.

Candidates for Degrees. President McBride distributed lists of candidates for degrees as recommended by the faculty at the meetings on November 6, 1974 and November 13, 1974.

Upon motion made, seconded, and unanimously passed, the following were approved for degrees to be awarded December 20, 1974, subject to the completion of all academic requirements and continued compliance with school requirements and regulations.

BACHELOR OF SCIENCE (MINING ENGINEERING)

- |                                |                          |
|--------------------------------|--------------------------|
| Thomas Joe Baker               | Jonathan Ralph Lang      |
| Richard Lee Bate               | Alan Fairbanks Lovely    |
| Abelardo Juvenel Castro Vereau | Matthew Rowland McColm   |
| Roderick Malcom Cezeaux        | Robert Lynn Morse        |
| Jack Duane Cline               | Paul Scott Pendleton     |
| Alan William Czarnowsky        | Charles Gilbert Pitcher  |
| Richard D. Dilley              | Andrew Henderson Plummer |
| Robert Edward Dunne            | Wendel Gustavo Puyana    |
| Alfonso Jose Fernandez         | Cristobal Jose Quintero  |
| Jose Antonio Avidio Furnaquera | Clifton Darwin Richards  |
| Castellon                      | Donald James Suttie      |
| Thomas Gibson III              | Pedro Valery Valarino    |
| Steven Michael Jaccoud         | John Paul Wells          |
| Larry Steven Jaycox            | John Robert Widows       |
| Georges Patrick Juilland       | Glen Alan Williams       |
| Benton Tom Kelly               |                          |

ENGINEER OF MINES

- James Edward McGuigan

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BACHELOR OF SCIENCE (METALLURGICAL ENGINEERING)

|                                |                              |
|--------------------------------|------------------------------|
| Debra Ann Carnell              | Thomas Augustine Reilly, Jr. |
| Kim Cordell Harden             | Robert A. Steane             |
| Richard Thomas Douglas Matlock | Todd Owen Stewart            |

METALLURGICAL ENGINEER

Leslie Everett Apodaca

BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

|                       |                            |
|-----------------------|----------------------------|
| Victor Manuel Beras   | James Nelson Hendrickson   |
| Edward Joseph Biller  | David Stearns Heneage      |
| Michael Damien Cola   | William Lane MacBride, Jr. |
| David Leslie Feavel   | Mark David Maisonneuve     |
| Harold Hays Griswold  | Rudolf Pengler             |
| Charles Ernest Hauntz | Carl Frederick Rounding    |
| Regan Alan Heath      |                            |

BACHELOR OF SCIENCE (PETROLEUM ENGINEERING)

George Richard Hogan  
Marc William Steffen  
Gary Lee Wallen

BACHELOR OF SCIENCE (CHEMICAL AND PETROLEUM-REFINING  
ENGINEERING)

|                         |                         |
|-------------------------|-------------------------|
| Richard Glenn Bloom     | Douglas J. Gritz        |
| Charles Kindle Chambers | Richard Matthew Karcich |
| Richard Dean Dunham     | Chad Reynolds King      |
| Marcus Jeffrey Florida  | James Vernon McCune     |

BACHELOR OF SCIENCE (GEOPHYSICAL ENGINEERING)

|                          |                       |
|--------------------------|-----------------------|
| John David Beatty        | Diane Kathleen Mason  |
| James Joseph Dolgowich   | Gregory A. Sisk       |
| Roger Ian Gerrard        | Michael Wayne Webring |
| James Clifford Hasbrouck |                       |

BACHELOR OF SCIENCE (MINERAL ENGINEERING--CHEMISTRY)

|                            |                        |
|----------------------------|------------------------|
| Michael Joseph Harris      | Michael Clayton Rupert |
| Armando Jose Ramirez Rojas | Mark Fredrick Tucker   |

BACHELOR OF SCIENCE (MINERAL ENGINEERING--MATHEMATICS)

Robert Stephen Chicko  
Douglas Edgar Johnson

BACHELOR OF SCIENCE (MINERAL ENGINEERING--PHYSICS)

Karl Roscoe Schaeffer

BACHELOR OF SCIENCE (MINERAL ENGINEERING)

Karl Roscoe Schaeffer

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MASTER OF ENGINEERING (ENGINEER OF MINES)

Ung Cheav Meng

MASTER OF SCIENCE (MINING ENGINEERING)

Gholamhossein Bahmanyar  
James Moore Riddle

MASTER OF SCIENCE (METALLURGICAL ENGINEERING)

Wendel Glen Brown  
Kenneth Paul Ferrera  
Carroll Joseph Long, Jr.

Richard Alan Patterson  
John Allen Reeves, Jr.

MASTER OF SCIENCE (GEOLOGY)

Logan T. MacMillan, Jr.  
Uka Nwangwu  
Alexander H. Paul

MASTER OF SCIENCE (PETROLEUM ENGINEERING)

William Allen Abbott  
Ronald Eugene Hogan

MASTER OF ENGINEERING (CHEMICAL AND PETROLEUM-  
REFINING ENGINEERING)

David John Morgan  
Alberto Orozco Gaitan

MASTER OF SCIENCE (CHEMICAL AND PETROLEUM-  
REFINING ENGINEERING)

Wayne R. Anderson  
Jeffrey Glenn Handwerk  
Jamal Huq Munshi

Robert Earl Phelps  
Richard Dale Sadok

MASTER OF SCIENCE (GEOPHYSICS)

James Charles Carloss  
Jack William Fassett  
Daniel Anthony Krygowski

MASTER OF SCIENCE (GEOPHYSICAL ENGINEERING)

Ruy Bruno Bacelar de Oliveira  
John Michael Jordan

MASTER OF SCIENCE (CHEMISTRY)

Heliodoro Bonilla Gutierrez

MASTER OF SCIENCE (MATHEMATICS)

Donald Glenn Apt  
Gerald Edward Jones  
Thomas Michael Monchak

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MASTER OF SCIENCE (PHYSICS)

Hung-Liang Lin

MASTER OF SCIENCE (MINERAL ECONOMICS)

Gilson Floriano Essenfelder      Frank Louis Natta III  
Abraham                                      Gary Robert Steele  
Hugo D. Hernandez

DOCTOR OF PHILOSOPHY (MINING ENGINEERING)

Russell Jay Miller

DOCTOR OF PHILOSOPHY (METALLURGICAL ENGINEERING)

Alan Leo Liby  
Soo Woo Nam  
Ramachandran V.

DOCTOR OF PHILOSOPHY (GEOLOGY)

James Vladimir Taranik

DOCTOR OF PHILOSOPHY (CHEMICAL AND PETROLEUM-  
REFINING ENGINEERING)

Kyung Chang Kwon

DOCTOR OF PHILOSOPHY (GEOPHYSICS)

Paul R. Donaldson                                      Jorge Parra Moya  
Myung Woong Lee    Charles James Wideman

DOCTOR OF PHILOSOPHY (GEOPHYSICAL ENGINEERING)

Thomas L. Davis  
Catherine King Skokan  
Jacob Jerome Skokan

DOCTOR OF PHILOSOPHY (MATHEMATICS)

Kempton L. Huehn

DOCTOR OF PHILOSOPHY (MINERAL ECONOMICS)

Nayan J. Lavingia  
Lawrence John MacDonnell

Venezuelan Students. Dr. Gary reported that about one-quarter of the students from Venezuela are expected to be qualified to enroll in regular classes for the second semester; the others will either need another semester of preparation or will be borderline students if they do enroll. We have already been told that we will not get any additional Venezuelan students the second semester, but we do expect to be assigned more next academic year. Of the 1,000 in the United States now, we have 50.

Environmental Economics. Mr. Stockmar, among other members of the Board, had taken notice of the recent continuing education course offering, "Strategies in Environmental Economic Planning", to be given under the direction of Dr. A. Petrick. The prospectus emphasized the concept that conservation of the environment is an economic "good" which has costs and benefits of the same kinds as those associated with other economic goods. ✓

In the discussion which followed, Mr. Stockmar spoke of the advantages to Mines of our "weaving" into our public statements of philosophy the fact that we teach and profess proper adherence to the environmental safeguards in the development of mineral resources.

Budget Hearing. President McBride reported to the Board a letter from Senator Joseph Shoemaker, Chairman of the Joint Budget Committee, in which Senator Shoemaker requested for the Committee a careful report of the effects on the School if we are constrained to operate on the same unit cost in 1975-76 as we have used in 1974-75. This report is to be filed in advance of and will presumably be a principal topic of discussion at Mines' budget hearing at 2:30 p.m., January 23, 1975, Room 341, State Capitol.

There followed an extensive discussion of the advantages and disadvantages of the use of a unit cost; i.e., first there is the difficulty of getting comparable cost numbers from other schools and then there is the difficulty of getting the JBC to apply the cost uniformly - it is sometimes used negatively but never positively and seldom consistently.

The suggestion was made that formula funding, if adopted, should be strictly adhered to and then we could go to private sources to seek money to enrich our programs. We need to establish some legislative means to achieve such a procedure. ✓

Apparently other states, or some at least, have developed a means of keeping an increase in private funding from decreasing state funding. Dr. Alter said California has achieved this. We should find out how other states handle this problem.

Could a formula be developed for all state colleges and universities to produce a unit cost which could then be frozen so that it would be possible to go out and start raising money? The difficulty of reserving private funding to enhance our educational efforts was discussed at length because it has happened in the past that state funds are cut in proportion to the amount of private funds available. This, of course, discourages potential donors. Even though Senate Bill 271 was passed by the legislature in 1973 with this purpose in mind, the language is not entirely what we had hoped for, and it has not proven to be entirely successful in our interest.

S.B. 271 provides for state auditing of all private gifts given to the school or other state institutions. It was pointed out that we have long recognized the right of the state to be informed of the acceptance of any sizeable grant because such grants and gifts may entail state obligations.

Mr. Bradley expressed his intention of drafting, or having drafted, a bill to remedy the deficiencies of S.B. 271. Such a bill will necessarily be explicit on the point of non-diminution of state support as private support is increased, and it may well need to be explicit on the concept of minimum formula support for state educational institutions. It is recognized that this second point will be difficult to achieve and unless carefully done, may result in a lower state appropriation to Mines than now received.

Collective Bargaining. President McBride distributed copies of a draft of a faculty collective bargaining bill (dated 11-27-74) which is in most respects a copy of a model bill adopted by several other states. The hope was expressed by several present that our salary structure will come to be such that faculty collective bargaining will be precluded, but it is probable that the legislature will not recognize the fact that inflation has eroded faculty salaries. If recognition and repair do not take place, collective bargaining is a virtual certainty. At least one bill will be introduced (CEA) and it seems likely that this bill as well as other bills will cover all public employees. The question is, President McBride said, should there not be a bill introduced which will recognize the particular problems of higher education?

The draft of the bill dated 11-27-74 is purported to be such a bill.

Mr. Bradley offered to work with members of his firm and members of the administration in drafting a bill which will both meet Mines' needs and be generally satisfactory for higher education. It was indicated that such a new draft might well be discussed by President McBride with other college and university presidents, but no authority was asked or given to have the bill actually introduced.

Professor Winton Laubach. Mr. Scott reviewed that status of the Laubach suit, i.e. the scope of the interrogatories originally requested has been diminished by the federal judge; the responses to these interrogatories were reviewed by the Assistant Attorney General on December 12, who was satisfied with them, and he will submit them on December 20.

Cooperative Education. President McBride said that in line with instructions at earlier Board meetings to review the possibility of cooperative education at Mines he has received from Dr. Alter an interim report on cooperative education, particularly engineering education. President McBride said he has not had an opportunity to study this material but will do so and will have recommendation(s) at the January or February meeting as to further work to be undertaken.



June 21, 1974

C  
O  
P  
Y

Mr. Chris Mills, President  
Graduate Student Association  
11 Mines Park  
Golden, Colorado 80401

Dear Mr. Mills:

The Board of Trustees considered the status of the fees mentioned in your letter of May 2, 1974, during the meeting last Friday. A new Student Health program was adopted which provides clinic services and insurance. The portion of the fee applicable to the clinic service (\$12 per semester) will be mandatory for all full-time students. The portion of the fee applicable to the insurance coverage (\$22.50 per semester) may be waived. The Athletic Fee will be continued on the present basis. The Associated Students Fee will be increased to \$9.50 per semester.

The concerns expressed in your letter and in the letter of Mrs. Karen Porter, accompanied by petitions, addressed to Mr. Scott were discussed with the Associated Students President prior to the Board of Trustees meeting, and the Athletic Department will be informed and asked to consider the comments directed toward its program.

Thank you for your interest in this matter.

Sincerely,

WGS/ll

11/23/78

SECRET

Thank you for your interest in this matter.

Enclosed

is a copy of the minutes of the meeting of the Board of Directors held on 11/22/78. The minutes reflect that the Board discussed the proposed amendments to the Bylaws and the proposed amendments to the Articles of Incorporation. The Board also discussed the proposed amendments to the Articles of Incorporation and the proposed amendments to the Bylaws.

The Board will be discussing the proposed amendments to the Bylaws and the proposed amendments to the Articles of Incorporation at the next meeting of the Board. The proposed amendments to the Bylaws will be discussed at the 11:30 AM meeting and the proposed amendments to the Articles of Incorporation will be discussed at the 1:00 PM meeting. The Board will also discuss the proposed amendments to the Articles of Incorporation and the proposed amendments to the Bylaws at the 1:00 PM meeting.

Best regards,

John J. Smith  
President  
ABC Corporation  
123 Main Street  
New York, NY 10001

11/23/78

*John J. Smith*

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Monthly Financial Reports. Mr. Scott distributed the monthly financial reports as follows: Summary of Budgets, July 1, 1974 through June 30, 1975; Budget Summary for the Education and General Funds; as of November 30, 1974; Budget Summary for Dormitory System Fund, as of November 30, 1974; Budget Summary for Housing System Fund, as of November 30, 1974; Budget Summary for Rental Properties Fund, as of November 30, 1974; Budget Summary for Health and Accident Fund, as of November 30, 1974; Budget Summary for Intercollegiate Athletic Fund, as of November 30, 1974; Budget Summary, Office of Research Services Contract Fund, as of November 30, 1974; Budget Summary, Associated Students Fund, as of November 30, 1974; Budget Summary, Colorado Energy Research Institute, November 30, 1974; Budget Summary, Publications Fund, November 30, 1974; Budget Summary, Special Programs Fund, as of November 30, 1974; and Budget Summary, Public Service Fund, as of November 30, 1974. Copies of the CSM Investment Summary report as of November 30, 1974 were also distributed.

The meeting adjourned at 12:15, and the Board members were joined by eight of the Jefferson County legislators for lunch and a report on the problems and goals of the Colorado School of Mines.

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Assistant Secretary