

RECORD OF PROCEEDINGS

Golden, Colorado
January 19, 1968

The Board of Trustees met in special session on January 19, 1968 at 8:30 a.m. in the President's Office of the Colorado School of Mines.

Present: Messrs. Alexander, Eisenach, Parker, Stockmar, and Volk.

Dr. Parker, President of the Board, presided.

President Childs attended the meeting.

Vouchers as listed in Exhibit A attached were examined and allowed.

Previous Minutes. The minutes of the meeting held on December 8, 1967 were approved.

Distinguished Achievement Medals. Dr. Parker appointed the following committee of the Board to make the recommendations for the 1968 Distinguished Achievement Medals: Mr. Eisenach, Chairman; Mr. Volk; and Mr. Stockmar. ✓

The files of the candidates were to be distributed in the near future.

Commencement Speaker. President Childs announced that he had received a verbal acceptance from Mr. Dean McGee, Kerr-McGee Corporation, to give the Commencement speech. Formal letter will be written in February. ✓

Emeritus Status. President Childs presented recommendations from Dean Kuhn that three retiring faculty, Professor Long, Professor Richtmann, and Professor Kelly be granted emeritus status.

There followed a review of the previous policy with regard to the granting of emeritus status. Previous requirements were high faculty rank and more than average length of service, but the appointment was not to be an automatic gesture upon retirement. ✓

After some discussion it was moved, seconded, and unanimously passed that retiring faculty with at least ten years of service, five of these years having been served at the rank of full professor, should be granted the emeritus rank.

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A special certificate of appreciation would be reserved for those faculty who have rendered outstanding service. This special certificate could be presented at any time deemed appropriate. ✓

Mr. Steinhauer entered the meeting at this time.

Advisory Council. The schedule for the Advisory Council meeting was discussed and agreed upon.

Professional Center Status Report. President Childs reviewed for the members of the Board the situation with regard to the Professional Center. The Colorado Commission on Higher Education did not recommend to the Joint Budget Committee the appropriation of the 1.3 million and the Governor's budget did not include it. However, President Childs stated he felt the Joint Budget Committee was split on this issue and he was still hopeful he could gain the support of the other members of the Joint Budget Committee. ✓

Sudler Release. Mr. Sudler, as reported in an earlier meeting, had refused to sign the release drawn up by the Attorney General's office. His own attorney, Mr. Charles Nicola, had written a release prepared for signature by Mr. Sudler, by an official representative of the State of Colorado, and by President Childs for the School. The release as prepared by Mr. Nicola was acceptable to the Attorney General's office and had been signed by Mr. Con Shea, State Controller, for the State of Colorado, and by President Childs for the School. Mr. Sudler had signed this release. ✓

Mr. Sudler had agreed to accept the check in the amount of \$1,981.52 upon receipt of the signed release.

Sigma Alpha Epsilon Fraternity. Upon motion made by Mr. Volk, seconded by Mr. Eisenach, and unanimously passed, the Sigma Alpha Epsilon house plans were approved and the execution of the deed for the sale of the property was authorized. ✓

Monthly Reports. Mr. Steinhauer distributed the monthly reports as follows: Balance Sheet, December 31, 1967; Restricted Funds, December 31, 1967; Summary of Budget Appropriation & Disbursements, December 31, 1967; Budget Summary of Experimental Plant, December 31, 1967; Mill Levy Building Fund, as of December 31, 1967; Budget Summary of Operations Pledged to 1962 Open End Bond Issue, December 31, 1967; Budget Summary of Mines Park Addition and CSM Houses No. 1, December 31, 1967; Budget Summary of CSM Houses No. 2, December 31, 1967; Budget Summary of Operations Pledged to 1966 Bond Issue, December 31, 1967; Budget Summary, CSM Athletic Association, December 31, 1967; Graduate Research Center, Summary of Budget, December 31, 1967; Budget Summary of 1967-68 Health and Accident Plan for the Associated Students of the Colorado School of Mines, December 31, 1967; and the Budget Summary of the Associated Students, December 31, 1967.

Warehouse Bids. President Childs reported that the bids for the new warehouse had come in higher than the amount which had been allocated to the project. In a letter dated January 17, 1968 the Colorado Division of Public Works had recommended that the contract be awarded to the apparent low bidder, A. A. and E. B. Jones Company, in an amount not to exceed \$55,000, providing negotiations were acceptable to all concerned.

C.C.H.E. Capital Construction Fund Requirements. President Childs presented a letter received on December 12 from the Colorado Commission on Higher Education setting forth several proposed policy statements with regard to capital construction fund requirements.

The members of the Board were of the opinion that a formal objection should be registered to Item 2 and Item 4 of this letter, i.e. "Land required for dormitories and other auxiliary enterprises should be purchased with other than State tax funds;" and "In event of purchase by the State of buildings owned by an institution (built with non-state funds), the purchase price should be the cost price less accrued depreciation."

Master Plan for Campus. President Childs, confirming telephone approval by members of the Board, reported that he had transmitted this approval to the Colorado Commission on Higher Education. The Commission at the January 5 meeting approved an allocation of \$35,000 to underwrite the cost of the master plan as proposed by S U A, Incorporated. The study will begin in February.

Comstock Property - 1218 and 1230 Eighteenth Street. President Childs presented an appraisal of property at the above addresses which were being offered for sale. The properties appraised at \$25,000.

Upon motion made, seconded, and unanimously carried, the Board approved the purchase of these properties.

Source of Funds for Purchase of Comstock Property. Mr. Steinhauer reported that there was available in the Special Land Acquisition Fund the amount of \$14,300 which could be applied on these properties.

Mr. Steinhauer recommended that we ask for special legislation to request \$10,700 from Account 2-7444, the account holding funds accrued on CSM Houses Group 2.

Resolution on Death of Mr. Charles D. Bromley. Upon motion by Mr. Volk, seconded by Dr. Parker, the following resolution was unanimously adopted:

WHEREAS the Board of Trustees of the Colorado School of Mines learned with deep regret of the death of Charles D. Bromley, member of the

Board of Regents of the University of Colorado;
and

WHEREAS the Board of Trustees wishes to recognize and pay due tribute to the contributions made by Mr. Bromley to higher education in Colorado; and

WHEREAS Mr. Bromley's knowledge and background in higher education, his forthright pursuit of causes in which he believed, his strength of character, and his sincerity and deep convictions won for him the respect of all who knew him; therefore be it

RESOLVED that the Board of Trustees through this resolution gives formal expression of sympathy and appreciation and that this resolution be spread upon the minutes of the January 19, 1968 meeting; and

RESOLVED further that a copy of this resolution be tendered to Mrs. Bromley as an expression of the feelings of the members of the Board of Trustees of the Colorado School of Mines.

The meeting adjourned at 1:00 p.m.

Secretary

RECORD OF PROCEEDINGS

Golden, Colorado
February 9, 1968

The Board of Trustees met in regular session on February 9, 1968 at 9:00 a.m. in the President's Office of the Colorado School of Mines.

Present: Messrs. Eisenach, Alexander, Parker, and Volk.

Absent: Mr. Stockmar.

Dr. Parker, President of the Board, presided.

President Childs attended the meeting.

Vouchers as listed in Exhibit A attached were examined and allowed.

Previous Minutes. The minutes of the meeting held on January 19, 1968 were approved.

Distinguished Achievement Medals. The selection of the recipients of the Distinguished Achievement Medals was postponed until a special meeting could be held on February 21.

van Diest Gold Medal. The members of the Board considered the recommendation of Dr. Roshan B. Bhappu for the van Diest Gold Medal. Dr. Bhappu had received his Metallurgical Engineer degree in 1950, his M.S. also in 1950, and his doctorate in 1953.

The Board reviewed the guidelines for recipients as set forth by a faculty committee in 1950. These guidelines included a fifteen-year eligibility beyond the undergraduate degree. It was recognized that such rules must necessarily be revised from time to time and that even though under the rules of 1950 Dr. Bhappu would not qualify, the Board felt he would be a worthy recipient and thus should be awarded the van Diest Gold Medal. ✓

President Childs stated he would appoint a new faculty committee to revise the rules for the van Diest Gold Medal.

Policy on Student Conduct. President Childs distributed copies of excerpt from the student handbook and the catalog which dealt with student conduct. The Board members

expressed the opinion that this should be a subject for continuing analysis by the faculty and administration and that recommendations for changes should be made whenever they are indicated.

Mr. Steinhauer entered the meeting at this time.

Monthly Reports. Mr. Steinhauer reviewed the monthly reports as follows: Education and General Funds, Balance Sheet, as of January 31, 1968; Source of Funds, Restricted for Scholarships and Grants, January 31, 1968; Agency Funds, Source of Funds; January 31, 1968; Summary of Budget Appropriations & Disbursements, January 31, 1968; Budget Summary of Experimental Plant, January 31, 1968; Mill Levy Building Fund, as of January 31, 1968; Budget Summary of Operations Pledged to 1962 Open End Bond Issue, January 31, 1968; Budget Summary of Mines Park Addition and CSM Houses No. 1, January 31, 1968; Budget Summary of CSM Houses No. 2, January 31, 1968; Budget Summary of Operations Pledged to 1966 Bond Issue, January 31, 1968; Budget Summary of Thomas Hall, January 31, 1968; Budget Summary of Morgan Hall, January 31, 1968; Budget Summary, CSM Athletic Association, January 31, 1968; Graduate Research Center, Summary of Budget, January 31, 1968; Budget Summary of 1967-68 Health and Accident Plan for the Associated Students of the Colorado School of Mines, January 31, 1968; Associated Students, Cash Receipts and Disbursements, January 31, 1968; and the Budget Summary of the Associated Students Student Organizations, January 31, 1968.

Systems Study Recommendations. Mr. Steinhauer reported that a special appropriation in the amount of \$27,500 was being passed by the legislature to enable the School to carry out the recommendations made as a result of the systems analysis.

Warehouse. Mr. Steinhauer reported that Mr. Greenwald had been working with the architect and the construction company who was the low bidder on the warehouse in an attempt to bring the project down to the \$55,000 which had been allocated for the building. He reported that he felt the project could be held to \$55,400 and asked that, subject to agreement of the Public Works Division, the contract be signed when prepared.

Upon motion made, seconded, and unanimously passed, Dr. Parker was authorized to sign the warehouse contract when it was available.

Advisory Council. During the meeting Dr. Parker received a letter from Dr. James Boyd who had served as chairman of the Advisory Council meeting held on February 1-3.

The recommendations of the Advisory Council were reviewed in light of faculty recommendations and the Task Force report. A future meeting was set up for February 21 at which action would be taken. ✓

Task Force Report. The Board of Trustees were very complimentary and appreciative of the work done by the members of the Task Force. There was a general consensus that the report made by the Task Force would be very helpful to the Board and thus to the School. ✓

In discussing the faculty as evaluated by the Task Force, it was pointed out that there are measures of merit other than salary and federal money received in support of programs and research projects. The general feeling of the Board was that even though our faculty salaries are not as high as we would like to have them, the students have not been short-changed in faculty-student contact hours, one reason being that we use so few graduate students as instructors.

The meeting adjourned at 2:30 p.m.

Secretary

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Golden, Colorado
March 10, 1968

The Board of Trustees met in special session on March 10, 1968 at 8:30 a.m. in the President's Office of the Colorado School of Mines.

Present: Messrs. Eisenach, Parker, Stockmar, and Volk.

Absent: Mr. Alexander.

Dr. Parker, President of the Board, presided.

President Childs attended the meeting.

Vouchers as listed in Exhibit A attached were examined and allowed.

Previous Minutes. The minutes of the meeting held on February 9, 1968 were approved.

Mr. Steinhauer entered the meeting at this time.

Monthly Reports. The following monthly reports were reviewed: Education and General Funds, Balance Sheet, as of February 29, 1968; Source of Funds, Restricted for Scholarship and Grants, February 29, 1968; Agency Fund, Source of Funds, February 29, 1968; Summary of Budget Appropriation & Disbursements, for month ending February 29, 1968; Budget Summary of Experimental Plant, for period ending February 29, 1968; Mill Levy Building Fund, as of February 29, 1968; Budget Summary of Operations Pledged to 1962 Open End Bond Issue, February 29, 1968; Budget Summary of Mines Park Addition and CSM Houses No. 1, February 29, 1968; Budget Summary of CSM Houses No. 2, February 29, 1968; Budget Summary of Operations Pledged to 1966 Bond Issue, February 29, 1968; Budget Summary, CSM Athletic Association, February 29, 1968; Graduate Research Center, Summary of Budget, for month ending February 29, 1968; Budget Summary of 1967-68 Health and Accident Plan for the Associated Students of the Colorado School of Mines, February 29, 1968; and the Associated Students, Cash Receipts and Disbursements, February 29, 1968.

Prospector Park Village. In response to Mr. Stockmar's question regarding the landscaping of the west campus area, Mr. Steinhauer said he would talk with Mr. Greenwald about hastening the plan for more planting.

Intercollegiate Athletic Travel. Mr. Steinhauer reported that an extensive study had been made of costs of

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various modes of transporting the men involved in athletic competitions away from Golden. He reported that at the present time there is a travel budget of \$6,500, and if we should use commercial carriers, the cost would be almost doubled.

After a discussion of all means and costs of transportation and in the interest of maximum safety of students and coaches, it was moved, seconded, and unanimously passed that the School will hereafter utilize commercial carriers with professionally licensed operators whenever it is feasible to do so. The primary concern should be the minimum exposure to accident for the students and coaches.

It was moved, seconded, and unanimously passed that the student athletic fee be increased from \$11 to \$15 per semester, effective with the 1968-69 school year to cover additional costs involved.

Wild Horse Park. Mr. Steinhauer reported to the Board that he had received a copy of the appraisal made by the Cartwright Appraisal Company for Mr. W. A. Mayes for use in establishing values to be paid by the government in taking this property. This appraisal showed all acreage at \$57.50 per acre, and assigned no mineral value to any part of it. Mr. Steinhauer is in contact with Mr. Holloway who is representing the School in the negotiations, but there was no indication thus far as to when the matter would be heard by the courts.

Pi Kappa Alpha House. Mr. Steinhauer presented the appraisal made at the request of the Pi Kappa Alpha organization which was in the amount of \$59,000. The appraisal which the School had made was in the amount of \$58,500, and at the September 20, 1967 Board meeting, Mr. Steinhauer had been authorized to make an offer to PKA for this amount.

It was moved, seconded, and unanimously passed that Mr. Steinhauer be authorized to enter into a purchase and sale agreement with PKA for \$58,500, the money to come from the available funds in the Mill Levy Building Fund. The remainder (\$3,000) may be requested from the legislature next session.

Distinguished Achievement Medals. The Board confirmed for the record the action taken at an informal meeting held on February 21.

At that meeting, the members of the Board had voted to confer Distinguished Achievement Medals on the following alumni:

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Charles F. Bonnet, Met. E., 1931
H. V. W. Donohoo, Geol.E., 1939
Robert W. Harrison, P.E., 1933
Jaroslav A. Malkovsky, D.Sc., 1930
James H. Pittinger, Geol.E., 1949
Joe B. Rosenbaum, Met.E., 1934

International Travel for President Childs.

President Childs stated he was planning to attend the International Geological Congress in Prague, Czechoslovakia and the United Nations - Russian Oil Shale Symposium in Tallinn, U.S.S.R., as an observer, providing the Board authorized such travel. President Childs stated there would be no state money involved in the cost of this travel. The Board approved the trip.

Silver Certificate for 50-Year Alumni. President Childs presented a recommendation from Dr. Pegis, in which he concurred, that a silver certificate be given to the 50-year alumni.

1st degree
It was moved, seconded, and unanimously passed that the 50-year alumni be presented with a silver certificate of appreciation, the year and degree to be shown.

Honorary Degrees. Upon motion made, seconded, and unanimously passed, an honorary degree of Doctor of Engineering will be presented to Mr. Dean McGee at Commencement on June 7, 1968.

Teaching Faculty Changes. President Childs reviewed the vacancies and changes which will occur due to retirements and resignations in the teaching faculty next school year.

New Organization Chart. President Childs presented a new organization chart which would change some administrative duties and titles and create some shifting of responsibilities.

Upon motion made, seconded, and unanimously passed, the Board approved the new organization chart presented and the appointments necessary to bring this reorganization about.

New Degree Program. There was a discussion on the new degree program based on the report of the Task Force and the recommendations of the alumni Advisory Council. The decisions on the final form of the program is to be reached in a special meeting of the Board some time in the next two weeks.

Mr. Stockmar left the meeting at this time.

Graduate and Professional Center. It was moved, seconded, and unanimously passed that the site be prepared

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for the Graduate and Professional Center. The site preparation should be completed this next summer.

The meeting adjourned at 5:00 p.m.

Secretary

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Golden, Colorado
March 29, 1968

A special meeting of the Board of Trustees was held in Denver on March 29 at noon.

Present: Messrs. Alexander, Parker, Stockmar, and Volk.

Absent: Mr. Eisenach.

President Childs attended the meeting.

Dr. Parker, President of the Board, presided.

The meeting was called to discuss the degree program.

The following degree structure was approved, with the decision that this degree structure and the titles included are within and consistent with the framework of the Colorado School of Mines' objective of being an institution under the primary commitment of training engineers for mineral resources careers.

Bachelor of Science Programs

The Bachelor of Science degree is to be given as an undesignated degree. By this, it is meant that the diploma would be entitled "Bachelor of Science" and in parenthesis the major area of concentration will be identified such as - Bachelor of Science (Geological Engineering).

Subject to acceptance of the Colorado Commission on Higher Education, the following degree titles are permissible:

Bachelor of Science (Chemistry)
Bachelor of Science (Physics)
Bachelor of Science (Engineering Physics)
Bachelor of Science (Mathematics)
Bachelor of Science (Engineering or Applied Mathematics)
Bachelor of Science (Geology)
Bachelor of Science (Geological Engineering)
Bachelor of Science (Geophysics)
Bachelor of Science (Geophysical Engineering)
Bachelor of Science (Petroleum Engineering)
Bachelor of Science (Chemical and Petroleum-Refining Engineering)
Bachelor of Science (Mining Engineering)
Bachelor of Science (Metallurgical Engineering)

The parenthetical designation will be made upon the recommendation of the appropriate department. Where dual degrees are given in the same department, it must be understood that the programs leading to the degrees must be appropriately different. In the degrees that are given with a parenthetical designation of science, there must be included courses appropriate to the mineral engineering commitment of the Colorado School of Mines. Thus these science degrees must be given in an atmosphere of engineering application as it applies to the mineral resource field. These science degrees must be clearly different from the traditional science degrees to be found in the arts and science schools of a general university and this difference must be recognizable as an institutional characteristic.

Master's Programs

Two Master's programs have been approved. The Master of Science degrees will be undesignated; that is "Master of Science" will be followed by a parenthetical designation of the major subject area. This will allow identification of interdisciplinary degree studies as well as those within a single discipline. As an example, there can be Master of Science (Geochemistry) or Master of Science (Chemistry).

The graduate course work within the Master of Science programs are to be designed, supervised, and vouched for by the graduate faculty.

Normal standards of admission in the graduate school will pertain and the Board urges the graduate faculty to consider the modern trends in graduate education which today indicate that this program might be completed in one year without the formal research and thesis requirement of the past. It is asked that the graduate faculty consider this problem in serious study to determine whether or not the most value will be achieved by limiting principal research efforts to the doctoral programs.

The second and equivalent Master's degree program is to be the Master of Engineering. Within the parenthetical designations of this program are to be retained the traditional engineering titles of the professional degrees of the Colorado School of Mines:

- Master of Engineering (Engineer of Mines)
- Master of Engineering (Geological Engineer)
- Master of Engineering (Geophysical Engineer)
- Master of Engineering (Petroleum Engineer)
- Master of Engineering (Chemical & Petroleum-Refining Engineer)
- Master of Engineering (Metallurgical Engineer)

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The time of one year for this program seems desirable as a parallel to the Master of Science program. This engineering program must clearly be different from a Master of Science program and again stress the engineering applications consistent with the institutional mission of the Colorado School of Mines.

Doctor of Philosophy Program

Students who have completed either the Master of Science or the Master of Engineering program, as well as those who have been accepted into doctoral programs without electing the Master's route, may continue on to the undesignated degree of "Doctor of Philosophy" which will have a parenthetical designation of the major subject area of the student's work. The recommendation of the graduate council that the degree title be changed from the Doctor of Science to the Doctor of Philosophy has been accepted by the Board of Trustees. The degree will be vouched for by the candidate's graduate committee. The judgment of the committee and the graduate faculty will determine the title included in parenthesis. Thus it should be included in the final recommendation of the graduate faculty that the degree, Doctor of Philosophy (Geology) or Doctor of Philosophy (Geological Engineering), will be given depending upon the nature of the program and the research accomplished by the candidate.

As an additional item of information for the Board, it was announced that Dr. Cecil Green would visit the campus on April 2 for the purpose of discussing a substantial increase of his pledge to the Colorado School of Mines in support of the plan to construct the Graduate and Professional Center.

The meeting adjourned at 2:30 p.m.

Assistant Secretary

March 29, 1968

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Golden, Colorado
April 12, 1968

The Board of Trustees met in regular session on April 12, 1968 at 8:30 a.m. in the President's Office of the Colorado School of Mines.

Present: Messrs. Parker and Volk.

Absent: Messrs. Alexander, Eisenach, and Stockmar.

President Childs attended the meeting.

Dr. Parker, President of the Board, presided.

Vouchers as listed in Exhibit A attached were examined and allowed.

Previous Minutes. The minutes of the meetings held on March 10, 1968 and March 29, 1968 were approved as amended in these minutes.

Master's Degrees. President Childs discussed further the Master of Science degrees in Chemistry, Physics, Mathematics, and Mineral Economics. It was asked that the inclusion of these degrees in the degree designations specified at the special meeting of the Board held on March 29 be reaffirmed.

Upon motion made and seconded, the inclusion of these degree programs was reaffirmed. President Childs stated he would seek the concurrence of Mr. Eisenach of all action taken at this Board meeting, thus completing the quorum acceptance of items of business of the meeting. (This was done the following week.)

The Board accepted the recommendation of the Graduate Council that the Master's degree in engineering be designated Master of Engineering, with the traditional engineering titles retained parenthetically. This correction was to be incorporated in the itemization of degrees approved at the special meeting held on March 29, 1968.

The Board again asked that the Master's degree programs be designed for completion in five years.

Faculty Salary Schedules. The Board approved the following faculty salaries and promotions:

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William R. Astle Assistant Professor of Mathematics	\$10,800
Henry A. Babcock Associate Professor of Basic Engineering	13,000
Charles Baer Assistant Professor of Mathematics	10,800
Paul F. Bartunek Professor of Physics	12,300
Daniel M. Bass, Jr. Professor of Petroleum Engineering and Head of Department	17,300
George T. Bator Associate Professor of Mining Engineering	11,200
Victor W. Bauman Assistant Professor of Mathematics	11,200
Jerry R. Bergeson Assistant Professor of Petroleum Engineering	11,000
Ramon E. Bisque Professor of Chemistry and Assistant to the Dean of the Graduate School for Research	14,300
Harold Bloom Associate Professor of Chemistry	11,400
Ardel John Boes Assistant Professor of Mathematics	11,200
Don Loren Bohmont Assistant Professor of Mathematics	9,900
Ralph B. Bowersox Professor of Physics and Head of Department	16,300
Fritz S. Brennecke Professor and Head of Department, Physical Education and Athletics	14,500
Austin R. Brown, Jr. Professor of Mathematics and Director of the Computing Center	14,400
James T. Brown Assistant Professor of Physics	10,400
William Rex Bull Associate Professor of Metallurgical Engineering	11,500

Jerrold J. Burnett Assistant Professor of Physics	\$11,400
Frank R. Campbell Associate Professor of Basic Engineering	11,500
Robert H. Carpenter Professor of Geology	13,500
William J. Chapitis Assistant Professor of English and Modern Foreign Languages	10,500
W. John Cieslewicz Instructor in Russian and German	8,000
W. D. Copeland Associate Professor of Metallurgical Engineering	11,200
Stephen Ray Daniel Instructor in Chemistry	8,400
James Darden Associate Professor of Physical Education and Athletics	11,900
Joseph E. Davies Associate Professor of Physical Education and Athletics	12,500
Richard H. DeVoto Assistant Professor of Geology	10,400
Dean W. Dickerhoof Associate Professor of Chemistry	11,400
Philip F. Dickson Associate Professor of Chemical and Petroleum-Refining Engineering	12,200
Walter H. Dumke Professor of Chemistry and Head of Department	16,400
Kenneth W. Edwards Assistant Professor of Chemistry	10,200
Rudy C. Epis Associate Professor of Geology	12,700
Joseph J. Finney Associate Professor of Geology	11,500

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Edward G. Fisher Professor of English and Head of Department	\$16,100
S. Dale Foreman Associate Professor of Basic Engineering	12,300
Hildreth Frost, Jr. Assistant Professor of Metallurgical Engineering and Administrative Assistant	10,000
Charles O. Frush Associate Professor of Mining Engineering	12,000
James H. Gary Professor of Chemical and Petroleum- Refining Engineering and Head of Department	18,800
John M. George Assistant Professor of English	10,000
John O. Golden Assistant Professor of Chemical and Petroleum-Refining Engineering	10,800
C. E. Gregory Professor of Mining Engineering	12,500
L. Trowbridge Grose Professor of Geology	13,500
Niles E. Grosvenor Associate Professor of Mining Engineering	11,300
Raymond R. Gutzman Associate Professor of Mathematics	11,200
Frank A. Hadsell Associate Professor of Geophysics	13,200
John P. Hager Assistant Professor of Metallurgical Engineering	10,900
Jeryl Louise Hamilton Museum Curator and Research Technician, Department of Geology	7,500
John W. Hancock Assistant Professor of Physical Education and Athletics	10,600
Steve Hanke Assistant Professor of Economics	10,400

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Jens Viggo Hansen Assistant Professor of English	8,800
John D. Haun Professor of Geology	14,300
John R. Hayes Professor of Geology	14,200
Paul G. Herold Professor of Metallurgical Engineering and Head of Department	17,000
Carl L. Hiltrop Associate Professor of Chemistry	10,500
John C. Hollister Professor of Geophysics and Head of Department	19,500
Robert M. Hutchinson Associate Professor of Geology	12,000
George W. Johnson Associate Professor of English	12,000
James G. Johnstone Associate Professor of Basic Engineering	13,300
Leonard Kalal Assistant Professor of Philosophy	9,800
Marvin L. Kay Instructor in Physical Education and Athletics	8,400
George V. Keller Professor of Geophysics	14,000
George H. Kennedy Assistant Professor of Chemistry	9,500
Harry C. Kent Associate Professor of Geology	11,700
John V. Kline Professor of Physics	12,400
Charles A. Kohlhaas Instructor in Petroleum Engineering	9,000
Andrew H. Larson Professor of Metallurgical Engineering	13,800
Winton Laubach Assistant Professor of Mathematics	8,800

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William B. Law Associate Professor of Physics	\$11,700
Joseph R. Lee Professor of Mathematics and Head of Department	16,000
Paul H. LeFevre Assistant Professor of Chemistry	9,000
L. W. LeRoy Professor of Geology	14,400
James E. Lindsay, Jr. Associate Professor of Basic Engineering	12,800
J. D. Lubahn Professor of Metallurgical Engineering and Director of Materials Research Laboratory	16,300
George B. Lucas Professor of Chemistry	13,300
Maurice Major Associate Professor of Geophysics	13,200
Donald C. B. Marsh Professor of Mathematics	12,000
Scott J. Marshall Assistant Professor of Basic Engineering	9,900
Frank S. Mathews Associate Professor of Physics	12,000
Douglas A. Mathewson Instructor in English	8,700
William A. Mattingly Instructor in English	7,000
Robert W. McAllister Associate Professor of Physics	12,800
George T. Merideth Professor of Geophysics	16,000
David G. Mickle Assistant Professor of Mining Engineering	11,600
C. Samuel Miller Assistant Professor of Physics	10,700

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B. J. Mitchell	\$11,800
Assistant Professor of Petroleum Engineering	
Fred E. Moore	12,700
Associate Professor of Geology	
Gabriel M. Neunzert	7,400
Instructor in Basic Engineering	
Carl G. Nordquist	10,800
Assistant Professor of Economics	
Robert B. Osborn	12,000
Associate Professor of Mathematics	
Bartlett W. Paulding, Jr.	13,000
Associate Professor of Basic Engineering and Acting Head of Department	
Robert W. Pearson	8,800
Instructor in Physical Education and Business Manager of Athletics	
George R. Pickett	12,700
Associate Professor of Geophysics	
Ronald D. Preston	11,400
Associate Professor of Basic Engineering	
John J. Reed	16,500
Professor of Mining Engineering and Head of Department	
Robert D. Reed	10,800
Assistant Professor of Physics	
Paul A. Rodgers	13,600
Professor of Geophysics	
Arthur Y. Sakakura	12,200
Associate Professor of Physics	
W. Cyril Schieltz	14,500
Professor of Metallurgical Engineering	
Samuel Shaw, III	9,000
Instructor in Mining Engineering	
Elwyn Shimoda	10,500
Assistant Professor of Chemical and Petroleum-Refining Engineering	

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Ruth B. Simon Research Associate, Department of Geophysics	\$11,000
George T. Sisson Laboratory Assistant in Chemistry	9,000
David T. Snow Associate Professor of Geology	11,400
Michael L. Spain Assistant Professor of English	9,200
Richard E. Stapp, Jr. Assistant Professor of Physical Education and Athletics	9,300
Charles W. Starks Assistant Professor of Chemistry	10,700
Franklin J. Stermole Associate Professor of Chemical and Petroleum-Refining Engineering	12,000
Frances L. Stewart Laboratory Assistant in Metallurgical Engineering	7,600
Robert J. Taylor Instructor in Basic Engineering	9,000
John R. Terray Instructor in Mathematics	8,500
John C. Thomas Research Assistant, Department of Chemical and Petroleum-Refining Engineering	8,000
David W. Trexler Associate Professor of Geology	11,000
Elliot W. Wager Assistant Professor of English	9,000
Cooper H. Wayman Assistant Professor of Chemistry	11,500
Robert J. Weimer Professor of Geology and Head of Department	17,600
Walter W. Whitman Associate Professor of Mathematics	13,500

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Thomas Wildeman Assistant Professor of Chemistry	\$ 9,900
John T. Williams Professor of Chemistry	13,700
Robert D. Witters Assistant Professor of Chemistry	10,800
F. Richard Yeatts Associate Professor of Physics	11,200

Administrative Salary Schedule. The following salaries and titles were approved:

Orlo E. Childs President	\$27,000
Martin S. Barber Director of Public Relations	11,800
Kenneth E. Bellamy, Jr. Assistant Dean of Students and Director of Student Housing	10,000
H. Dean Burdick Director of Admissions	13,000
Bernetta Conrey Departmental Assistant	7,800
Lloyd Cubbison Director of Public Information	7,000
L. David Femmer Budget Officer and Personnel Officer	12,000
Robert L. Greenwald Director of Plant Facilities	14,200
Leonard L. Johnson Assistant Finance Officer	8,800
A. Raymond Jordan Dean of the Graduate School and Professor of Physics	19,000
Truman H. Kuhn Vice President for Administrative Affairs and Professor of Geology	21,500
William E. Leckie Assistant to the Vice President for Administrative Affairs	11,000

April 12, 1968

Warren J. Mason	\$10,800
Assistant Dean of Students and Registrar	
Anton G. Pegis	16,000
Vice President for Development and Professor of English	
A. W. Schlechten	24,000
Vice President for Academic Affairs and Professor of Metallurgy	
Francis E. Smiley, Jr.	16,000
Dean of Students and Associate Professor of Basic Engineering	
Sherman W. Spear	11,000
Director of Publications	
Gurnett Steinhauer	19,300
Vice President for Business Affairs	
Frank R. Utter	11,800
Finance Officer	
<u>Library</u>	
Geraldine D. Bariani	9,000
Librarian	
Carlisle T. Barry	8,600
Librarian	
Catharine S. Cross	7,700
Librarian	
Elsie Christine Ericson	8,000
Librarian	
Margaret Smart	9,600
Librarian	
Virginia Lee Wilcox	13,600
Head Librarian	

Loyalty Oath. A letter to Dr. Grant Vest from Mr. Duke Dunbar, Attorney General, under date of March 13, 1968 was brought to the attention of the Board. In this letter the problem arising out of the challenge of constitutionality of the loyalty oath as now administered at the University of Colorado was reviewed. As a consequence of the letter from Mr. Dunbar, the administration of the Colorado School of Mines is not presently requiring the administration of the loyalty oath for new employees.

Mr. Steinhauer entered the meeting at this time.

Monthly Reports. Mr. Steinhauer reviewed the monthly reports as follows: Education and General Funds, Balance Sheet, as of March 31, 1968; Source of Funds, Restricted for Scholarship and Grants, March 31, 1968; Summary of Budget Appropriation & Disbursements, March 31, 1968; Budget Summary of Experimental Plant, March 31, 1968; Mill Levy Building Fund, as of March 31, 1968; Budget Summary of Operations Pledged to 1962 Open End Bond Issue, March 31, 1968; Budget Summary of Mines Park Addition and CSM Houses No. 1, March 31, 1968; Budget Summary of CSM Houses No. 2, March 31, 1968; Budget Summary of Operations Pledged to 1966 Bond Issue, March 31, 1968; Budget Summary, CSM Athletic Association, March 31, 1968; Graduate Research Center, Summary of Budget, for month ending March 31, 1968; Budget Summary of 1967-68 Health and Accident Plan for the Associated Students of the Colorado School of Mines, for period ending March 31, 1968; and the Associated Students, Cash Receipts and Disbursements, for period ending March 31, 1968.

Budgets for 1968-69. Mr. Steinhauer reviewed the following budgets:

Proposed operating budget for School in the amount of \$3,832,364.

Proposed Budget Summary of CSM Houses No. 2 in the amount of \$22,822.

Proposed Budget Summary of Mines Park Addition and CSM Houses No. 1 in the amount of \$11,680.

Proposed Budget Summary of Operations Pledged to 1966 Bond Issue in the amount of \$52,600.

Proposed Budget Summary of Operations Pledged to Open End 1962 Bond Issue in the amount of \$403,580.

Upon motion made, and seconded the budgets were approved. President Childs again stated he would seek Mr. Eisenach's approval at a later date. (This was done.)

Funding of Purchase of Pi Kappa Alpha House. In the minutes of the meeting held on March 10, 1968 it was reported that the property being purchased from the Pi Kappa Alpha organization would be funded from the Mill Levy Building Fund with the exception of approximately \$3,000 which would be requested from the legislature next session.

Mr. Steinhauer reported that he had been informed by the State Controller's office that he would have to find a source other than State funds for the needed \$2,900.

Upon motion made and seconded the Board approved the use of the Guggenheim Fund for this additional money, as well as for the amount needed for refurbishing the house for occupancy.

Integral Club. President Childs presented drawings and cost estimates of the work to be done in the unfinished portion of the college union in order to make a club room. The estimated cost is \$56,000.

Mr. Steinhauer reported that there is at present a \$55,000 balance in the maintenance and Equipment Reserve Account of our 1962 Open End Bond Issue. Under the terms of the bond agreement, this money is to be used for replacement of equipment and any unusual maintenance or repairs on the facilities included in the bond issue. He recommended, however, that a balance of \$25,000 be retained in that account. ✓

Upon motion made and seconded, the administration was authorized to use \$30,000 from the Maintenance and Equipment Reserve Account of the 1962 Open End Bond Issue and the balance of the Lester C. Thomas Fund to complete the funding of the work and furnishings to prepare the "Integral Club" room.

The meeting adjourned at 2:30 p.m.

Assistant Secretary

April 12, 1968

RECORD OF PROCEEDINGS

Golden, Colorado
May 10, 1968

The Board of Trustees met in regular session on May 10, 1968 at 8:30 a.m. in the President's Office of the Colorado School of Mines.

Present: Messrs. Alexander, Eisenach, Parker, Stockmar, and Volk.

Dr. Parker, President of the Board, presided.

President Childs attended the meeting.

Vouchers as listed in Exhibit A attached were examined and allowed.

Previous Minutes. The minutes of the meeting held on April 12, 1968 were approved.

Candidates for Degrees. The following list of those recommended by the faculty for degrees on the dates specified was approved, subject to the final completion of work and the meeting of all requirements for graduation:

June 7, 1968

ENGINEER OF MINES

Thomas Herbert Albers
Garwood Raymond Allen
Irving Frank Avery
Gary Douglas Bates
Donald Lee Beckwith
Edward James Briggs
Robert Maurice Burnham
James Douglas Cline
Richard Anthony DiPaola
Daniel Martin Howard
Gregory Hal Hoyl
Patrick Michael James
James Chris Juliani
Daryl Keith King
Danny Ray Kirschman
Robert Anton Larson
Robert Gordon Lauman

Thomas Mengel Leonard
Frederick William Paddock, Jr.
Toby Todd Peterson
Thomas Charles Pool
Robert Joseph Previdi
James Stewart Robbins
Michael O'Grady Russo
Theodore Allen Smith
Jon Crawford Sprague
Ralph Barry Tacoma
John Stephen Timmons
Pablo Velasco Cespedes
Kenneth Noel Walker
Murray Edmond Watts, Jr.
Paul Richard Widinski
Gerald Salyards Willett
Arthur Douglas Zierold

METALLURGICAL ENGINEER

Robert Lee Ball
Robert Edward Beehler

Howard Tadashi Koshi
Fred Harland Lightner

Raymond Michael Bello
 Steve Curtis Brady
 Robert Edward Brookman
 Charles Edgar Brooks III
 Robert F. Davis
 David Linwood Dickinson
 Philip John Dudt
 Glen Andrew Eddy
 Robert Musgrove Garbutt
 John Carl Gathje
 Thomas Warren Johnston
 Clifford Vernon Kangas, Jr.
 Roy Walter Keyes
 David C. Knupp

John Allen McPherson
 Robert Bruce Merrill
 Lynn Lee Mitchell
 Paul Edward Olson
 Robert Curtis Pahl
 Bruce Robert Palmer
 Lynn Alan Schwabauer
 Albert Edwin Seep, Jr.
 Richard Dee Smith
 John Stephen Volosin
 Stephen Alfred Willner
 Ralph Walf
 Mark Steven Yancey

GEOLOGICAL ENGINEER

William Chester Bachmann II
 Bruce Charles Bertram
 James Robert Best
 John Joseph Chulick
 Edward Owen Church
 Robert Barnes Cook, Jr.
 Jack Erik Danel
 Mark Lauren Gallup
 Paul Gordon Hansen

Michael Allen Kern
 James Lamont Lessman
 Oliver John Roman, Jr.
 Bhawanipratap C. Singh
 Jon McClendon White
 Gary Thomas Whitt
 John R. Ziegler
 Marc Bennett Zuckerman

PETROLEUM ENGINEER

David Thomas Berlin
 James Dannie Bundy
 Thomas Steven Elliott
 Edward James Gibbon, Jr.
 Thomas James Golden
 Larry Dean Manning
 Thomas Kauko Matson
 Jack Robert McClellan
 David Eugene Minard
 Rick B. Minter

Richard Keith Mowrer
 Neil Ross Murdock
 David Anthony Noran
 John E. Olson II
 William Tipton Reish
 Neal Edwin Schmale
 Richard Murrel Stephens
 John Winters Walker, Jr.
 Richard Allen Weaver

PETROLEUM REFINING ENGINEER

Richard Leroy Bain
 Brent C. Black
 Ronald Louis Ciarallo
 Donald Rocco Commiello
 Thomas William DeMaria
 Maxwell Dean Edgar, Jr.
 Jesus Rafael Garcia
 Coronado
 William John Gardiner III
 Robert John Gosik
 Robert Earl Guttridge
 Charles William Hahn

John C. Hays
 Howard Wilson Holcombe
 Harold Martin Korell
 Jay A. Manning
 Joel Mascitelli
 Michael Zane Mikulicz
 Robert Dean Mowry
 Herbert Bruce Nix
 Kenrick Algird Charles Pocius
 Terence William Pritchard
 Richard Neil Robinson
 Randall Dean Touslee
 Thomas Michael Crumal

GEOPHYSICAL ENGINEER

Robert Lee Askew	David Karl Hartner
Donald Lewis Bryson	Dennis Patrick Hickey
Gaylord Cleveland	L. Bruce Hinton
Richard Patrick Crist	Kays Fouad Loutfi
William Stone Davis, Jr.	Robert Lawrence Pearson
David Bryson Fleming	Marc Timothy Pottorf
Stephen Carcaud Gallup	Henry J. Smith, III
Gerald W. Grandey	Don Lee Stretesky
Steve Wayne Hackett	Carl Otis Windels
George K. Hammer	Lawrence W. Yost

MINERAL ENGINEER - CHEMISTRY

John Charles Briggs	Samuel Lafayette Smith
James Milton Gardner	James Patrick Sparks
Thomas Edwin Irwin	Charles Norman Wentz
James Charles Nevins	

MINERAL ENGINEER - MATHEMATICS

Wendell Lee Albert	Milton Richard McKenzie
Gary Arthur Futoma	Alaric Gale Renz
Mike R. Karlinger	James Anthony Tomsic
Kays Fouad Loutfi	

MINERAL ENGINEER - PHYSICS

James Henry Cannell	John Gerard Palmer
Conrad John Clark	Rafael Rodriguez
James Scott Dale	Bernard John Steblay
Edwin Earl Darling	Ronald Edward Uhlig
Abram A. DeHerrera, Jr.	John Andrew Valersky
Norman Charles Frank	John Thomas Williams, III
Lawrence W. Moss	

July 20, 1968

ENGINEER OF MINES

William G. Doepken	John Henry Reiss
James Matthew Green	Arthur Leo Walsh
David William Jamieson	

METALLURGICAL ENGINEER

Telfer Woodhouse Norman

PETROLEUM ENGINEER

Lawrence G. Evanation	Robert Earle McKee, III
Reed Willis Ferrill, Jr.	Guy Gilbert Ray
David Charles Holke	Douglas Bryant Tippie
Robert Earl Irelan	Ronald Price Walden

PETROLEUM REFINING ENGINEER

George F. Boscoe
Dennis Eugene McCarthy

David Roger Peterson
John A. Yackey

GEOPHYSICAL ENGINEER

Charles Edwin Applegate

MINERAL ENGINEER - MATHEMATICS

Gregg Herbert Martens
Charles Allen Milligan

James Patrick Nelligan
Danny Lee Taylor

September 14, 1968

ENGINEER OF MINES

David R. Canning
Frederic Joseph Kerulis
Robert Anthony Reseigh
Fred Charles Schulte

Robert Good Smith, Jr.
David J. Starbuck
David George Wahl
Daniel Patrick Zerga

METALLURGICAL ENGINEER

John Michael Neal
Vincent Anthony Polimeni

David Alden Wagers

GEOLOGICAL ENGINEER

Jack Erik Danel
Charles Michael Trautwein

David Edmund Wright

PETROLEUM ENGINEER

William Allen Abbott
J. Samuel Butler

John Philip Harpel, Jr.
Carl Michael Holmgren

PETROLEUM REFINING ENGINEER

Richard Norton Brown
Marion Clay Chambers, Jr.
Edgar Thomas Foy

Robert Southworth III
Verbon Paul Walker
John Ray Wise

GEOPHYSICAL ENGINEER

John Michael McIlvoy

Alpheus Chittenden Newman

MINERAL ENGINEER-CHEMISTRY

Thomas Howard Farley

MINERAL ENGINEER-PHYSICS

Joe William Gray