

RECORD OF PROCEEDINGS

Golden, Colorado
January 13, 1967

The Board of Trustees met in regular session on January 13, 1967 at 12:00 noon in the Denver Club, Denver, Colorado.

Present: Messrs. Fenwick, Parker, and Stockmar.

Absent: Mr. Eisenach.

President Childs and Mr. Steinhauer 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 meeting held on December 9, 1966 were approved.

Names for New Dormitories. After some discussion, it was moved, seconded, and unanimously passed that the new dormitories would be named the Lester C. Thomas Hall and the Jesse R. Morgan Hall.

New Appointments to the Graduate Faculty. President Childs reviewed for the Board a list of those recommended for appointment to the Graduate Faculty. He explained that appointment to the Graduate Faculty was primarily recognition of those faculty members who participate in the graduate program and work on the graduate degree committees for the individual students. The Graduate Faculty are given special recognition in the School catalog.

Upon motion made, seconded, and unanimously passed, the following new appointments were made to the Graduate Faculty:

S. Dale Foreman	Assistant Professor of Basic Engineering
Elwyn Shimoda	Assistant Professor of Chemical and Petroleum-Refining Engineering
Cooper H. Wayman	Assistant Professor of Chemistry
Robert D. Witters	Assistant Professor of Chemistry
Richard H. DeVoto	Assistant Professor of Geology
Robert J. Lickus	Assistant Professor of Geology
George R. Pickett	Assistant Professor of Geophysics
John M. George	Assistant Professor of English
Walter W. Whitman	Associate Professor of Mathematics
William D. Copeland	Assistant Professor of Metallurgical Engineering
Cedric E. Gregory	Professor of Mining Engineering
Billy J. Mitchell	Assistant Professor of Petroleum Engineering
William B. Law	Assistant Professor of Physics
Robert D. Reed	Assistant Professor of Physics
Arthur Y. Sakakura	Assistant Professor of Physics

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Stipends for Graduate Fellows. President Childs presented a recommendation from the Graduate Dean that stipends for graduate fellows be at the rate of \$2,000 for services of 15 hours per week. The stipend rate may be pro-rated up to a maximum of 30 hours of service. Tuition, but not fees, will usually be waived on 8 or more hours of service.

Upon motion made, seconded, and unanimously passed, the stipend rate for graduate fellows was approved.

Curricula for New Degree Programs. President Childs distributed copies of the preliminary draft of the proposed Professional Degree program as prepared by the Curricula Committee of the faculty. He asked that the members of the Board review the draft. He stated that because of the printing deadline for the new catalog he would ask for approval of the curricula at the February meeting of the Board.

Service Pin for Faculty. President Childs presented a drawing of two different pins which would be given to faculty for certain years of service. He stated he would have figures on cost at a later date.

Property Along Clear Creek. Mr. Steinhauer reported that he had been contacted by Mr. Cliff Evans regarding the sale of property along Clear Creek. Mr. Evans is giving the United States government an option on adjoining property which he had previously acquired from the School for the site of the new post office for Golden. Mr. Evans is now asking that the School give him an option on the tract between Block D and 1/2 and Illinois Street. He has offered to purchase the tract at the previously appraised price of \$12,000 or purchase another property of an equal value in exchange.

The Board approved granting Mr. Evans an option to acquire the property but not on the basis of the \$12,000 at which the property had previously been appraised. The members of the Board were of the opinion that the property had appreciated in value and that it would be reasonable to work out a trade on present values.

Budget Recommendations by the Colorado Commission on Higher Education. President Childs reported that the Colorado Commission on Higher Education was recommending to the Joint Budget Committee only a 3 percent general fund increase in the 1967-68 budget. In their November report the Commission had expressed the desire to study our needs and goals in greater depth.

The members of the Board were in agreement that the School should do a better job in telling our story to the public in order that there would be more understanding and better acceptance of the fact that we are a special institution and thus incur special costs.

The Board felt that we should protest the decrease in our budget request to the Colorado Commission on Higher Education and to the Joint Budget Committee, bringing to their attention

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attention the importance of the mineral economy to the State of Colorado. They reaffirmed the decision which had been made to increase out-of-state tuition by \$100, effective with the 1967-68 school year, explaining that to increase tuition more at this time would change the pattern previously established. One of our distinct goals which we are achieving on an increasingly satisfactory basis is to increase the percentage of Colorado residents but without sacrificing the valuable aspects of having out-of-state students. Also there is an implied contract which we have with students who enroll under a schedule of previously announced tuition rates. Even though we have every intention of increasing out-of-state tuition more in the future, we cannot increase tuition so rapidly that we would make it impossible for those presently enrolled to finish their education at Mines.

The members of the Board thought it important that comparable student costs be obtained from other state schools offering engineering education so that it could be shown that our costs were not out of line with other engineering schools per se.

Monthly Reports. Mr. Steinhauer distributed copies of the monthly reports as follows: Summary of Budget Appropriation & Disbursements, December 31, 1966; Balance Sheet, December 31, 1966; Restricted Funds, December 31, 1966; Restricted Funds, Exhibit B, December 31, 1966; Budget Summary of Experimental Plant, December 31, 1966; Geophysical and Geological Studies, as of December 31, 1966; Mill Levy Building Fund, as of December 31, 1966; Budget Summary of Operations Pledged to Open End Bond Issue, December 31, 1966; Budget Summary of Mines Park Addition and CSM Houses No. 1, for period ending December 31, 1966; Budget Summary of CSM Houses No. 2, for period ending December 31, 1966; Budget Summary of CSM Athletic Association, for period ending December 31, 1966; Budget Summary of 1966-67 Health and Accident Plan for the Associated Students of the Colorado School of Mines, December 31, 1966; and the Graduate Research Center, Summary of Budget, for month ending December 31, 1966.

The meeting adjourned at 3:00 p.m.

Assistant Secretary

RECORD OF PROCEEDINGS

Golden, Colorado
February 10, 1967

The Board of Trustees met in regular session on February 10, 1967 at 8:30 a.m. in the President's Office of the Colorado School of Mines.

Present: Messrs. Eisenach, Fenwick, and Parker.

Absent: Mr. Stockmar.

Dr. Parker, President of the Board, presided.

President Childs and Mr. Steinhauer attended the meeting.

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

Previous Minutes. The minutes of the meeting held on January 13, 1967 were approved.

Degree Program Announcement for Catalog. President Childs asked for Board approval to show in the catalog a general statement covering the new degree program without making any attempt to give details.

After some discussion with regard to the details of the program, the Board did approve the publication of a general statement in the new catalog.

Commencement. President Childs reported on a request from the senior class that the Commencement exercises be held on Stratton Commons. The Board left the decision to President Childs

President Childs reported that he had issued an invitation to Secretary John W. Gardner, Health, Education, and Welfare, to give the Commencement address but had not received an answer.

The members of the Board were of the opinion that the invitation should be extended to Senator Gordon Allott.

Director, CSM Foundation. Mr. Kenneth R. Fenwick was appointed to serve as a Director of the CSM Foundation to replace the late Mr. Lester C. Thomas.

Athletic Conference. President Childs reviewed the situation with regard to an intercollegiate athletic conference. He stated that he thought some affiliation was desirable.

After some discussion it was recommended that Mines make application to the Mountain Division of the Rocky Mountain

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Athletic Conference which would include Regis College, Western State College, Adams State College, Ft. Lewis College, New Mexico Highlands University, Eastern New Mexico University, Western New Mexico University, Westminster College, and Southern Utah College.

Each school joining the Conference was being asked to pledge \$1,500 a year for a three-year period. President Childs was recommending only a first-year commitment of \$1,500. The Board approved this one-year commitment of \$1,500.

Leave of Absence, Dr. Richard S. Culver. President Childs reported that Dr. Culver, Assistant Professor of Basic Engineering, had been awarded a Ford Foundation Residency in Engineering Practise for one year, beginning in June, 1967. The program, funded by the Ford Foundation, is designed to aid in the development of young teachers in their application of academic fundamentals. The teacher works in private industry and is paid by the Ford Foundation, thus the leave being requested by Dr. Culver would be without pay.

The Board approved the leave of absence without pay for Dr. Richard S. Culver for the 1967-68 academic year.

Monthly Reports. Mr. Steinhauer distributed and reviewed the monthly reports as follows: Summary of Budget Appropriation & Disbursements, January 31, 1967; Balance Sheet, January 31, 1967; Restricted Funds, January 31, 1967; Loan Funds, January 31, 1967; Budget Summary of Experimental Plant, January 31, 1967; Geophysical and Geological Studies, as Related to the Derby Earthquakes, as of January 31, 1967; Mill Levy Building Fund, as of January 31, 1967; Budget Summary of Operations Pledged to Open End Issue, January 31, 1967; Budget Summary of Mines Park Addition and CSM Houses No. 1, January 31, 1967; Budget Summary of CSM Houses No. 2, January 31, 1967; Budget Summary of CSM Athletic Association, January 31, 1967; Budget Summary of 1966-67 Health and Accident Plan for the Associated Students of the Colorado School of Mines, January 31, 1967; and the Graduate Research Center, Summary of Budget, January 31, 1967.

Sudler Claim. In reviewing the Balance Sheet, Mr. Steinhauer called attention to the item of \$1,981.52 outstanding against the construction account, College Union & Married Student Housing, which represents amount due the architect, Mr. Sudler. Mr. Sudler is still disputing this amount and the Board instructed Mr. Steinhauer to turn the matter over to the Attorney General.

Investment of School Funds. Mr. Steinhauer distributed a listing of funds not on deposit with the State Treasurer as of December 31, 1966. There was a brief discussion of the amounts and manner in which these funds were deposited. Mr. Steinhauer was instructed to determine whether it would be in accordance with state law to invest some of these funds in commercial paper. Further discussion of this item is anticipated.

School Infirmary. President Childs read a letter from the School Physician, Dr. W. Lloyd Wright, in which Dr. Wright expressed his concern over the fact that unlicensed personnel dispense medications to students in the School Infirmary. Dr. Wright was of the opinion that the School should take steps to remedy this situation by employing sufficient qualified personnel.

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The Board was in complete agreement that the School should take the necessary steps to operate within the framework of the law.

Report on 1966 Bronco Contract. President Childs reported that the School grossed \$13,294 on the contract with the Denver Broncos during the summer of 1966. Of this amount, \$1,000 was transferred to the General Fund of the School. The balance was transferred to the Bond and Interest Sinking Fund of the self-maintaining properties.

College Union. President Childs reported that whether or not the School obtained a license to sell 3.2 beer in the college union, he would like to have a room in the presently unfinished portion of the union where special banquets and dances could be held, where students could play bridge, eat their lunches which they bring, and where vending machines could be made available for soft drinks, etc.

The Board approved the idea.

Furniture for New Dormitories. Mr. Steinhauer reported that after investigating the matter he thought it would be more practical and economical to buy furniture for the dormitories, even though built-in furniture would be allowable as part of the Revenue Bond Issue. He estimated that the furniture and equipment would cost approximately \$50,000, and he listed available sources.

In the discussion that followed, the members of the Board expressed the opinion that the bequest of Mr. Lester C. Thomas would be an appropriate source for funds to pay for this furniture. However, this was not to be construed as a gift but as a debt which must be repaid from future excess earnings. For the present time the money used from the Thomas bequest would be interest free with no firm schedule for repayment.

In the event the Thomas bequest was not available by the time the payment must be made, Mr. Steinhauer was instructed to borrow from the Guggenheim Fund and make repayment later when the Thomas bequest was available.

The meeting adjourned at 11:45 a.m.

Assistant Secretary

February 10, 1967

RECORD OF PROCEEDINGS

Golden, Colorado
March 10, 1967

The Board of Trustees met in regular session on March 10, 1967 at 8:30 a.m. in the President's Office of the Colorado School of Mines.

Present: Messrs. Eisenach, Fenwick, Parker, 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 meeting held on February 10, 1967 were approved.

Distinguished Achievement Medals. It was moved, seconded, and unanimously passed that Distinguished Achievement Medals be awarded at Commencement to the following alumni:

August F. Beck, E.M. 1925
C. Clay Crawford, Met.E. 1940
John Mark Gardner, P.E. 1933
S. Power Warren, E.M. 1913
Gaylord C. Weaver, Geol.E. 1926

van Diest Gold Medal. It was moved, seconded, and unanimously approved that a van Diest Gold Medal would be awarded to Mr. Ira E. McKeever, Jr. at Commencement on June 2.

Catalog. President Childs asked the members of the Board to mark any section of the catalog to which they had objection and return to him.

Terman Report. President Childs distributed copies of a report which had been made by Dr. Frederick E. Terman for the Colorado Commission on Higher Education. President Childs reported that he was having an informal meeting with some college presidents and the Director of the Commission on March 22 to discuss the report.

Honorary Degree. Upon motion made, seconded, and unanimously carried, the granting of an honorary degree to Senator Gordon Allott was approved.

Salary Schedules. President Childs presented for review the salary schedule approved at the January 12, 1962 Board meeting setting forth minimums and maximums for all teaching and nonteaching classifications.

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President Childs stated he would like to discontinue the nonteaching brackets altogether because he did not believe they had any meaning at the present time. Possibly he would present a new system for future consideration. The Board approved.

After some discussion, it was moved, seconded, and unanimously passed that the following brackets be approved for the academic ranks:

	<u>Minimum</u>	<u>Maximum</u>
Instructor	\$ 6,000	\$ 9,000
Assistant Professor	7,000	12,000
Associate Professor	9,000	15,000
Professor	11,000	open

Investment of Funds. Mr. Stockmar reviewed the status of the School funds.

After the matter was reviewed, it was agreed that a plan should be prepared and presented for the consolidation of funds to bring the greatest total benefit to the School, that we should evaluate the services we get from individual banks, and that we should make use of the relatively large amount of our cash deposits to the best future advantage of the School. It was also agreed that a review and evaluation should be made at regular intervals.

Sigma Phi Epsilon House Site. President Childs reviewed for the Board the transactions which took place with regard to the site selection of Sigma Phi Epsilon and Sigma Alpha Epsilon fraternities.

SPE will use Site 7 and SAE will use Site 8. Because the change in site will add \$2,900 to the cost of the SPE house, the School is reducing the price of Site 7 to \$5,300, the SAE fraternity is paying SPE \$1,300 in cash, and the remaining \$900 will be borne by the SPE fraternity.

Bills in Legislature. President Childs reported on the bills before the current legislature which concern us.

He reported that the bill correcting the site descriptions on fraternity row was now through both the House and the Senate.

He reported that Representative George Fentress was introducing a bill to appropriate the accrued net income and future net income from Houses Group 2 to the Mines Park Revenue Bond and Interest Sinking Fund Account.

Property at 1202 19th Street. President Childs reported that Mr. Steinhauer had received a copy of a letter addressed to the Board from Mrs. Ada Olmstead with regard to the sale of her property at 1202 19th Street. This property had been appraised in 1961 at \$16,500. Mrs. Olmstead was asking \$25,000 for the property at this time.

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President Childs was instructed to obtain a new appraisal on the property and bring the matter back to the Board after discussion with Mrs. Olmstead. ✓

Monthly Reports. Mr. Frank Utter entered the meeting and distributed the monthly reports as follows: Summary of Budget Appropriation & Disbursements, February 28, 1967; Balance Sheet, February 28, 1967; Restricted Funds, February 28, 1967; Loan Funds, February 28, 1967; Budget Summary of Experimental Plant, February 28, 1967; Geophysical and Geological Studies, as related to the Derby Earthquakes, as of February 28, 1967; Mill Levy Building Fund, as of February 28, 1967; Budget Summary of Operations Pledged to Open End Bond Issue, February 28, 1967; Budget Summary of Mines Park Addition and CSM Houses No. 1, February 28, 1967; Budget Summary of CSM Houses No. 2, February 28, 1967; Budget Summary of CSM Athletic Association, February 28, 1967; Budget Summary of 1966-67 Health and Accident Plan for the Associated Students of the Colorado School of Mines, February 28, 1967; and the Graduate Research Center, Summary of Budget, February 28, 1967.

Audit. President Childs reported that a representative from Arthur Andersen & Company was coming to the campus the following week to discuss a systems study. Such a study was being considered as a result of the last audit report.

Mineral Economics. Mr. Stockmar again asked that serious consideration be given to a program of mineral economics. ✓

The meeting adjourned at 12:15 p.m.

Secretary

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Golden, Colorado
April 17, 1967

The Board of Trustees met in special session on April 17, 1967 at 8:30 a.m. in the President's Office of the Colorado School of Mines.

Mr. Stockmar had been reappointed by the Governor for another six-year term. Two new Board members, Mr. Russell H. Volk who was appointed to fill the vacancy left by the expiration of Mr. Fenwick's term, and Mr. William A. Alexander who was appointed to fill the vacancy left by the resignation of Mr. Coors, took the oath of office. ✓

Other Board members present were Mr. Eisenach and Dr. Parker.

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 meeting held on March 10, 1967 were approved.

CSM Foundation, Inc. Dr. Parker appointed Mr. Alexander to the Board of Directors of the Colorado School of Mines Foundation, Inc. Mr. Alexander accepted the appointment. ✓

Colorado Commission on Higher Education. Dr. Parker appointed Mr. Volk to represent the Board on the Advisory Committee to the Colorado Commission on Higher Education. Mr. Volk accepted the appointment. ✓

"Task Force" Study of CSM. President Childs reviewed for the new Board members the background of the situation which is resulting in a special group to study the Colorado School of Mines. A draft of points to be covered, as prepared by the Executive Director of the Commission, was made available to the members of the Board. ✓

In the discussion which followed, it was agreed that the School should be doing a better job in informing the public of the importance of the mineral industries to the State of Colorado and the role of the School in the development of the mineral industries. It was suggested that funds from the CSM Foundation could be put to good use in publicizing the School and its importance to the State.

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Emeritus Status. The policy of granting emeritus rank was reviewed.

Upon the recommendation of Dean Kuhn and President Childs, it was moved, seconded, and unanimously passed that Professor George W. LeMaire and Professor Richard V. Hughes be granted emeritus status effective upon their retirement at the end of this school year.

New Staff Appointment. President Childs reviewed the changes being made in the reorganization of duties in the Business Office and the qualifications of a new staff member.

Upon motion made, seconded, and unanimously passed, the following appointment was approved.

Leonard L. Johnson	\$7,500
Assistant Finance Officer	

Leave of Absence - Dr. Charles Shull. President Childs reported to the Board that although no formal request had been made he knew that Dr. Shull was going to ask for an extension of his leave of absence to continue the work he was doing.

Upon the recommendation of President Childs, it was moved, seconded, and unanimously passed that Dr. Shull be granted another year's leave of absence without pay.

Oil Shale. Mr. Stockmar stated that he had been giving a great deal of thought as to how the School could serve the State of Colorado in the promotion of oil shale work. He stated that in his opinion the Interior Department did not wish to favor the major oil companies, but because so few independent oil companies would be interested in investing in oil shale research, it led to the general impression that the majors were being favored.

Mr. Stockmar thought that perhaps the Colorado School of Mines Research Foundation might indicate a willingness to serve as a research nucleus around which the independents and major oil companies could form with the clear understanding that at a proper time the Research Foundation would withdraw and act as consultant, if at all. He felt that it would serve the purpose of all concerned for the Research Foundation to make application for a lease to accomplish this and that President Childs should seek an audience with the Department of the Interior in Washington to explore the possibility of such an arrangement.

Mr. Stockmar was authorized to design a lease which would provide a legal mechanism allowing the CSM Research Foundation to enter into an official program on oil shale development.

Mr. Steinhauer entered the meeting at this time.

Monthly Reports. Mr. Steinhauer reviewed the monthly reports as follows: Summary of Budget Appropriation & Disbursements, March 31, 1967; Balance Sheet, March 31, 1967; Restricted Funds,

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March 31, 1967; Loan Funds, March 31, 1967; Summary Budget, Experimental Plant, March 31, 1967; Geophysical and Geological Studies, as related to Derby Earthquakes, March 31, 1967; Mill Levy Building Fund, as of March 31, 1967; Summary Budget of Operations Pledged to Open End Bond Issue, as of March 31, 1967; Budget Summary of Mines Park Addition and CSM Houses No. 1, March 31, 1967; Budget Summary of CSM Houses No. 2, March 31, 1967; Budget Summary of CSM Athletic Association, March 31, 1967; Budget Summary of 1966-67 Health and Accident Plan for the Associated Students of the Colorado School of Mines, March 31, 1967; and the Summary of Budget, Graduate Center Research, March 31, 1967.

CSM Houses Group 2 Funds. Mr. Steinhauer reported that the bill, House Bill No. 1473, which provided for the transfer of \$41,803.06 from the CSM Houses Group 2 to the Mines Park Bond and Intra-Sinking Fund Account had been passed by both houses of the legislature.

Pi Kappa Alpha House, 17th and Illinois. President Childs reviewed for information only the situation with regard to the PKA house. The house is now unoccupied and is still owned by the PKA fraternity who bought the house from Kappa Sigma several years ago for \$55,000. President Childs stated that he had looked at the house with the thought of buying it to use as an infirmary or a girls' dormitory. The idea of using it as an infirmary was discarded because of lack of fireproofing. The purchase of it for a girls' dormitory was not considered practical at this time.

Barnhardt Property - 1704 Illinois. Mr. Steinhauer reported that he had been contacted by Mr. Barnhardt regarding the purchase of that property. It was not suggested that the School buy the property at this time but only reported for information.

Plans for New Warehouse. Mr. Steinhauer and President Childs presented the preliminary plans for the new warehouse to be built at 13th and Maple. President Childs explained that the cost of the building would be covered by the \$60,000 appropriated in 1966 for this purpose.

Upon motion made, seconded, and unanimously passed the Board approved the preliminary plans for the new warehouse. Working drawings will now be prepared.

Investment of School Funds. As requested at the March meeting, Mr. Steinhauer had prepared a proposal to consolidate School funds and copies of the proposal were distributed. The funds involved were non-state funds, i.e. Guggenheim Legacy Fund, Restricted Funds, Student Health and Accident Fund, and the Open-End Bond Issue. Mr. Steinhauer's proposal would implement the Board's recommendation to combine many small accounts presently in various locations into several larger accounts.

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

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Special Meeting. President Childs asked that a special meeting be held at the Petroleum Club at noon on April 21 in order to obtain approval for faculty salaries. With the exception of Mr. Alexander who was going to be out of town, the members of the Board agreed to such a meeting.

The meeting adjourned at 2:00 p.m.

Secretary

April 17, 1967

RECORD OF PROCEEDINGS

Golden, Colorado
April 21, 1967

The Board of Trustees met in special session on April 21, 1967 at noon in the Petroleum Club.

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

Absent: Mr. Alexander.

Dr. Childs attended the meeting.

The meeting was called to consider salaries for faculty and administration.

The following salaries were approved:

Henry A. Babcock Associate Professor of Basic Engineering	\$11,500
Charles Baer Assistant Professor of Mathematics	9,900
Martin S. Barber Editor, Office of Public Information	10,800
Geraldine D. Bariani Librarian	8,200
Carlisle T. Barry Librarian	8,600
Paul F. Bartunek Professor of Physics	11,400
Daniel M. Bass, Jr. Professor of Petroleum Engineering and Head of Department	16,800
George T. Bator Associate Professor of Mining Engineering	11,200
Victor W. Bauman Assistant Professor of Mathematics	10,100
Kenneth E. Bellamy, Jr. Assistant Dean of Students and Director of Student Housing	9,400
Jerry R. Bergeson Assistant Professor of Petroleum Engineering	10,400

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Ramon E. Bisque Professor of Chemistry	\$12,400
Harold Bloom Associate Professor of Chemistry	10,500
Don Loren Bohmont Assistant Professor of Mathematics	9,100
Ardel John Boes Assistant Professor of Mathematics	10,000
Ralph B. Bowersox Professor of Physics	14,800
Fritz S. Brennecke Professor and Head of Department, Physical Education and Athletics	14,000
Austin R. Brown, Jr. Professor of Mathematics and Director of the Computer Center	12,800
Jerry Don Bumpus Assistant Professor of English	8,600
H. Dean Burdick Director of Admissions	12,300
Jerrold J. Burnett Assistant Professor of Physics	10,400
Frank R. Campbell Associate Professor of Basic Engineering	10,800
Robert H. Carpenter Professor of Geology	12,600
William J. Chapitis Assistant Professor of English and Modern Foreign Languages	9,900
W. John Cieslewicz Instructor in Russian and German	7,000
Bernetta Conrey Departmental Assistant	7,500
W. D. Copeland Assistant Professor of Metallurgical Engineering	10,000
Catharine S. Cross Librarian	7,100
Stephen Ray Daniel Instructor in Chemistry	6,400

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James Darden Associate Professor of Physical Education and Athletics	\$10,900
Byron N. Darnell Conductor of Band and Glee Club (part-time)	3,400
Joseph E. Davies Associate Professor of Physical Education and Athletics	11,500
Lynnard Wayne Denton Instructor in English	7,000
Richard H. DeVoto Assistant Professor of Geology	9,500
Dean W. Dickerhoof Associate Professor of Chemistry	10,400
Philip F. Dickson Associate Professor of Chemical and Petroleum- Refining Engineering	10,700
Walter H. Dumke Professor of Chemistry and Head of Department	16,000
Rudy C. Epis Associate Professor of Geology	11,300
Kenneth W. Edwards Assistant Professor of Chemistry	9,300
Elsie Christine Ericson Librarian	7,500
L. David Femmer Budget Officer and Personnel Officer	11,000
Joseph J. Finney Assistant Professor of Geology	10,100
Edward G. Fisher Professor of English and Head of Department	15,400
Hilbert E. Fletcher Assistant Professor of Basic Engineering	7,700
S. Dale Foreman Associate Professor of Basic Engineering	11,200
Hildreth Frost, Jr. Assistant Professor of Metallurgical Engineering and Administrative Assistant	9,500
Charles O. Frush Associate Professor of Mining Engineering	11,200

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Maurice C. Fuerstenau Associate Professor of Metallurgical Engineering	\$12,000
Martin E. Fuller, II Associate Professor of Chemistry	11,000
Stephen L. Gardner Instructor in Economics	7,000
James H. Gary Professor of Chemical and Petroleum-Refining Engineering and Head of Department	17,900
John M. George Assistant Professor of English	9,300
Robert L. Greenwald Director of Plant Facilities	13,100
C. E. Gregory Professor of Mining Engineering	11,700
L. Trowbridge Grose Professor of Geology	12,100
Niles E. Grosvenor Associate Professor of Mining Engineering	10,800
Raymond R. Gutzman Associate Professor of Mathematics	10,100
Frank A. Hadsell Associate Professor of Geophysics	11,900
John P. Hager Assistant Professor of Metallurgical Engineering	9,700
Jeryl Louise Hamilton Museum Curator and Research Technician, Department of Geology	6,700
John W. Hancock Assistant Professor of Physical Education and Athletics	9,600
Steve Hanke Instructor in Economics	7,400
John D. Haun Professor of Geology	12,900
John R. Hayes Professor of Geology	13,600
Paul G. Herold Research Professor of Ceramic Engineering, Department of Metallurgical Engineering	15,800

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Carl L. Hiltrop Associate Professor of Chemistry	\$10,000
John C. Hollister Professor of Geophysics and Head of Department	18,800
Patrick C. Hunt Special Lecturer in Speech (part-time)	3,700
Robert M. Hutchinson Associate Professor of Geology (on academic leave for first semester at three-quarters of this salary)	11,200
George W. Johnson Associate Professor of English	11,200
Leonard L. Johnson Assistant Finance Officer	8,100
James G. Johnstone Associate Professor of Basic Engineering	12,100
A. Raymond Jordan Dean of the Graduate School	18,300
Leonard Kalal Assistant Professor of Philosophy	9,000
Marvin L. Kay Instructor in Physical Education and Athletics	7,500
George V. Keller Professor of Geophysics	12,500
T. A. Kelly Professor of Basic Engineering and Head of Department	15,400
George H. Kennedy Assistant Professor of Chemistry	8,300
Harry C. Kent Associate Professor of Geology	10,200
John V. Kline Professor of Physics	11,400
Michael A. Klugman Associate Professor of Geology	10,400
Charles A. Kohlhaas Instructor in Petroleum Engineering	8,500
Truman H. Kuhn Dean of Faculty	20,800

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Andrew H. Larson Professor of Metallurgical Engineering	\$12,800
Winton Laubach Assistant Professor of Mathematics	8,200
William B. Law Assistant Professor of Physics	10,700
William E. Leckie Assistant to the Dean of Faculty	10,200
Joseph R. Lee Professor of Mathematics and Head of Department	14,600
L. W. LeRoy Professor of Geology	13,600
Robert J. Lickus Assistant Professor of Geology	9,200
V. Allan Long Professor of Physics and Head of Department	14,800
J. D. Lubahn Professor of Metallurgical Engineering and Director of Materials Research Laboratory	15,600
George B. Lucas Professor of Chemistry	12,200
Maurice Major Associate Professor of Geophysics	11,900
Donald C. B. Marsh Professor of Mathematics	11,500
Scott J. Marshall Assistant Professor of Basic Engineering	9,100
Warren J. Mason Assistant Dean of Students and Registrar	10,200
Frank S. Mathews Associate Professor of Physics	11,300
Douglas A. Mathewson Instructor in English	7,700
Robert W. McAllister Associate Professor of Physics	11,700
George T. Merideth Professor of Geophysics	15,300
C. Samuel Miller Assistant Professor of Physics	9,900

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B. J. Mitchell Assistant Professor of Petroleum Engineering	\$10,800
Fred E. Moore Associate Professor of Geology	11,400
Gabriel M. Neunzert Instructor in Basic Engineering	6,400
Carl G. Nordquist Assistant Professor of Economics	10,300
Robert B. Osborn Associate Professor of Mathematics	10,900
Bartlett W. Paulding, Jr. Assistant Professor of Basic Engineering	10,600
Robert W. Pearson Instructor in Physical Education and Business Manager of Athletics	8,000
Anton G. Pegis Assistant to the President and Professor of English	14,500
George R. Pickett Associate Professor of Geophysics	11,200
Ronald D. Preston Associate Professor of Basic Engineering	10,500
John J. Reed Professor of Mining Engineering and Head of Department	15,800
Robert D. Reed Assistant Professor of Physics	10,100
W. M. Richtmann Professor of Basic Engineering	13,500
Paul A. Rodgers Professor of Geophysics	12,900
Arthur Y. Sakakura Assistant Professor of Physics	11,200
N. Cyril Schieltz Professor of Metallurgical Engineering	14,000
A. W. Schlechten Professor of Metallurgical Engineering and Head of Department	19,800
Samuel Shaw, III Instructor in Mining Engineering	8,400

April 21, 1967

Elwyn Shimoda Assistant Professor of Chemical and Petroleum-Refining Engineering	\$ 9,700
Ruth B. Simon Research Associate, Department of Geophysics	10,000
George T. Sisson Laboratory Assistant in Chemistry	8,500
Margaret Smart Librarian	9,000
Francis E. Smiley, Jr. Dean of Students and Associate Professor of Basic Engineering	13,500
David T. Snow Assistant Professor of Geology	10,000
Michael L. Spain Assistant Professor of English	8,600
Sherman W. Spear Director of Publications	10,700
Charles W. Starks Assistant Professor of Chemistry	9,600
Gurnett Steinhauer Business Manager	18,400
Franklin J. Stermole Associate Professor of Chemical and Petroleum-Refining Engineering	10,600
Frances L. Stewart Laboratory Assistant in Metallurgical Engineering	6,700
Robert J. Taylor Instructor in Basic Engineering	7,600
John R. Terray Instructor in Mathematics	7,800
John C. Thomas Research Assistant	7,300
David W. Trexler Associate Professor of Geology	10,300
Frank R. Utter Finance Officer	10,600
Elliot W. Wager Instructor in English	7,700

Cooper H. Wayman Assistant Professor of Chemistry	\$10,400
Robert J. Weimer Professor of Geology and Head of Department	16,000
Walter W. Whitman Associate Professor of Mathematics	12,000
Virginia Lee Wilcox Head Librarian	13,000
John T. Williams Professor of Chemistry	12,600
Robert D. Witters Assistant Professor of Chemistry	9,600
W. Lloyd Wright, M.D. School Physician and Head of Medical Department	9,000
F. Richard Yeatts Associate Professor of Physics	10,400

The meeting adjourned at 2:00 p.m.

Secretary

April 21, 1967

RECORD OF PROCEEDINGS

Golden, Colorado
May 12, 1967

The Board of Trustees met in regular session on May 12, 1967 at 8:30 a.m. in the President's Office of the Colorado School of Mines.

Present: Messrs. Alexander, Parker, and Volk.

Absent: Messrs. 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 meeting held on April 17, 1967 were approved.

Colorado Commission on Higher Education. Dr. Parker reported that the Commission was calling a meeting of the boards of control for the state colleges and universities for July 7. The Commission had asked that we submit six items for the agenda. Each member of the Board was asked to send two items to Dr. Childs who would collect all items and submit the list.

President Childs reported on a letter from the Commission in which it was stated that two advisory councils were being formed to extend and improve communication between the Commission and the institutions. One was a council on fiscal and budgetary affairs and the other was a council on automated data processing. The Board was asked to appoint a representative on each council.

Upon recommendation of President Childs, the Board appointed to the first council Mr. Dave Femmer, our Budget Officer, and to the second council, Dr. Austin Brown, the Director of our Computing Center.

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 2, 1967

ENGINEER OF MINES

Charles Monson Albrecht
Phil Alan Bowman
Fred Louis Burrell
Robert Douglas Carson

John D. Morgan
Robert Dean Morris
Kenneth Ray Pohle
Neil B. Prens

Kenneth Allen Dickson
 Richard Henry Fox
 Warren Lee Harrison
 John Richard Hoyer
 Robert William Jensen
 Thomas Glen Miller

Richard Lee Schmittel
 Joseph Anthony Scheuering
 Gary David Snell
 Ronald Earl Versaw
 Robert George Wilken

METALLURGICAL ENGINEER

Robert Allen Ayres
 Richard Currie Barr
 James Allan Bradbury
 Robert L. Braddock
 Gary Eugene Butts
 James Walter Colzani
 Larry King Elliott
 Edmund Palmer Finch
 Terrence Alan Graham
 Charles Collins Hanebuth, Jr.
 Richard Wayne Harper
 Brian Randolph Hayden
 Wayne Nickerson Holliday
 James Edward Honea

Stanley M. Howard
 James Douglas Ingram
 Richard Earl Jarboe
 Charles Herbert Lohmiller
 Alan Leo Luby
 Stephen H. Maytag
 Wayne D. Pickerill
 Gary Paul Pierce
 John Richard Plavan
 Charles R. Saltzer
 John Nicholas Teets
 Robert Keith Thomas
 Thomas Grinnell White

GEOLOGICAL ENGINEER

John Joseph Antony
 James Robert Best
 David Samuel Bolin
 Stephen Paul Collings
 Randall Easton Connolly
 Marshall Stephen Crouch
 Louis B. Harmon
 John Roswell MacTavish Hill

James Edwin Hodges
 Richard Kanda
 Henry G. Kreis
 William Frank Larson
 Eduardo Anibal Moya
 Robert Alden Snyder
 Ellery Holbrook Wilson

PETROLEUM ENGINEER

Rasoul Hady Al-Kishmiri
 Stephen Louis Allison
 Joseph Elias Bochaty, Jr.
 Henry Brent Crichlow
 Harm DeBoer

Jimmie Dean Grimes
 Dan Russell Long
 Rodney James Martin
 Frank Rieber, III
 Sam Edward Walthall

PETROLEUM REFINING ENGINEER

Mohamed Baghdadi
 Harold Allen Burgess
 James A. Gesick
 Doyle Nathan Hartman
 Thomas William Lauman
 Pramod J. Lavingia

Jerold Richard Lowder
 Clyde Eugene Morrison
 Loren L. Pritzel
 Gerald Thomas Ranney
 Adolph George Stoll, Jr.

GEOPHYSICAL ENGINEER

Abdul Razzak J. Al-Ansari
 Hamid M. Jawad Al-Hakeem
 Hashim T. Al-Najim

Frank Jeffrey Hersey
 Donald William Howard
 Harry Meakin Lindsay

Philip Henry Bishop
 Earl Dean Brown
 Robert Dean Burdick
 John Edwin Colt

Allan Fatih
 Salem J. Razoky
 Blair Kent Salisbury
 Alan Christopher Strauss

MINERAL ENGINEER-CHEMISTRY

Richard Charles Clark
 Oliver John Roman, Jr.
 Elsie Jane Rowe

MINERAL ENGINEER-MATHEMATICS

Edwin Randolph Cole, Jr.
 James Donald Covey
 Alloyd Olaf Moody, Jr.

James Kermit Park
 Robert Carlton Wise

MINERAL ENGINEER-PHYSICS

Michael K. Greenburg
 David Merle Houdeshell
 Peter Steven MacDonald

July 15, 1967

GEOLOGICAL ENGINEER

Myron Kenneth Beck
 Charles Austin Bush
 John D. Mayhew

PETROLEUM ENGINEER

Thomas Joe Garner

PETROLEUM REFINING ENGINEER

Alberto Rafael Cisneros Perfetti
 John I. Gordon
 Charles Edward Kirby
 Joseph Denzil Stewart, Jr.
 Michael Edward Webber

GEOPHYSICAL ENGINEER

Reginald Shi Young Lee

MINERAL ENGINEER-MATHEMATICS

Bruce Edward Tynes

September 9, 1967

ENGINEER OF MINES

Gerald Bonhomme
 Gregory Hal Hoyle
 Uthai David Kamoltham

Stephen Joseph Navin
 Robert Good Smith, Jr.

METALLURGICAL ENGINEER

Michael James Barber
 Gary A. Galusha
 Robert Sterling Glidden

John Howard MacDonald
 Robert Wayne Scheck
 Mark Steven Yancey

GEOLOGICAL ENGINEER

Peter Earl Mitchell-Maciulaitis
 Dennis Eugene Peperkorn
 David Alan Wolfe

PETROLEUM ENGINEER

Foudil Baba-Ali
 Alberto F. Charles
 J. Michael Lacey

Philip Anthony Lesser
 Garrett Henry Nollen
 Michael Allen Stead

PETROLEUM REFINING ENGINEER

Mahdi Shukur Al-Ghali
 Kenneth Wayne Bott
 Wilmer Jesse Foster
 William Jeffrey Hart
 Charles Lee Heyman

Ronald Russell Jones
 James Lee McDaniel
 Richard W. Rhoades
 Glenn C. Schilling, Jr.
 Donald Steven Tipton

GEOPHYSICAL ENGINEER

Kenneth Ashley Miller
 Robert Gaston Rodriguez

MINERAL ENGINEER-MATHEMATICS

Waldo R. Keenan, Jr.

MINERAL ENGINEER-CHEMISTRY

Arthur Franklin Clark
 Danny Ken Harper

MINERAL ENGINEER-PHYSICS

Robert Campbell Anderson
 Abram Anthony DeHerrera, Jr.

David Richard DeLaney
 John Smith Heggie, III

June 2, 1967

MASTER OF SCIENCE

Department of Mining Engineering

Tron Jorstad
 Darcy H. Wentworth

Department of Metallurgical Engineering

Roger Larry Altman

Martin C. Kuhn

Hans Jozef Boving
 Lautaro Santiago Diaz
 Grover Gutierrez B.
 John Harry Jones
 Jan Lance Krankota

O. A. Lee
 Arthur Ona Martel
 John Enroll Wegener
 David Eugene Werstler
 Igor A. Wilkomirsky

Department of Geological Engineering

Peter Hale Buchanan
 Jaime Navas Gaona

Department of Petroleum Engineering

Robert E. Crumb
 Joseph R. Hogan

Mustafa Pogda Kokcu
 Marvin A. Svaldi

Department of Chemical and Petroleum-Refining Engineering

Philip M. Rooke

Department of Geophysical Engineering

Norman Harthill
 James L. McNett

Philip R. Romig, Jr.
 Charles J. Wideman

Chemistry & Chemical and Petroleum-Refining Engineering

D. Galen Reese

DOCTOR OF SCIENCE

Department of Metallurgical Engineering

Raymond Dallaire
 Francis Joseph Furman, Jr.
 Terence Patrick McNulty

Robert Stanley Rickard
 Alan Douglas Zunkel

Department of Geological Engineering

William Sommerville Calkin
 Maxwell Ellis Gardner
 Don L. Sawatzky

Frederick Phillip Schwarz, Jr.
 Peter Laurence Siems

Department of Chemical and Petroleum-Refining Engineering

Jack Wilcox Sowards

Department of Geophysical Engineering

Kandiah Balachandran
 Hans Arnt Meinardus

Departments of Chemistry and Geological Engineering - Geochemistry

Frank E. Diebold

Mr. Steinhauer entered the meeting at this time.

Proposal for Campus Plans. President Childs submitted for the approval of the Board an estimate of work to be done by the Ken R. White Company as follows:

1. Plans for addition to chemistry building.
2. Plans for an expansion of the library.
3. Plans for the remodeling of the administration building.
4. Updating of the master plan for entire campus.

According to present procedure, the proposal has to be submitted to the Colorado Commission on Higher Education and, if approved, the work will be paid for out of funds appropriated to the Commission for program planning.

Upon motion made, seconded, and unanimously passed, the Board approved the proposal for submission to the Commission.

Humanities Center. President Childs reported that he had discussed with the Ken R. White Company an alternative for the Center to be planned within the \$1,300,000 limit of available funds. The firm staff believes it is feasible to scale the building down to the available amount of money with the idea that a second floor could be added with additional funds when available. The reduced size may seriously hamper the usefulness of the Center.

President Childs reported that on a recent trip to Washington he had visited the Department of Health, Education, and Welfare and had received some encouragement to use another approach in the application for funds from the government in the context of a graduate-professional center.

President Childs reported to the Board that he had received the first third of a pledge of \$30,000 from the Standard Oil (Indiana) Foundation.

Monthly Reports. Mr. Steinhauer distributed and reviewed the monthly reports as follows: Summary of Budget Appropriation & Disbursements, April 30, 1967; Balance Sheet, April 30, 1967; Restricted Funds, April 30, 1967; Loan Funds, April 30, 1967; Budget Summary of Experimental Plant, April 30, 1967; Geophysical and Geological Studies as related to the Derby Earthquakes, April 30, 1967; Mill Levy Building Fund, as of April 30, 1967; Budget Summary of Operations Pledged to Open End Bond Issue, April 30, 1967; Budget Summary of Mines Park Addition and C.S.M. Houses No. 1, April 30, 1967; Budget Summary of C.S.M. Houses No. 2, April 30, 1967; Budget Summary of CSM Athletic Association, April 30, 1967; Budget Summary of 1966-67 Health and Accident Plan for the Associated Students of the Colorado School of Mines, April 30, 1967; and the Summary of Budget, Graduate Research Center, April 30, 1967.

Transfer of Funds. President Childs reviewed the developments on the request to the legislature to transfer \$41,803 from the CSM Houses Group 2 to the Mines Park Bond and Intra-Sinking Fund Account. The bill had passed both houses of the legislature but had not yet been signed by the Governor.

The State Auditor had stated his preference that the funds be used to finance the recommended accounting systems study. The firm of Arthur Andersen & Company has made a proposal to conduct a systems study for a fee not to exceed \$22,000. It is hoped that the study can be started in May as soon as funding can be arranged.

President Childs said he would contact the State Auditor and attempt to gain his support in the matter.

1967-68 Budgets. Mr. Steinhauer distributed copies of the preliminary budgets as follows:

CSM Operating Budget in the amount of \$3,475,431.

Operations Pledged to Open End 1962 Bond Issue in the amount of \$400,382.

College Union in the amount of \$72,357.

Food Services in the amount of \$156,045.

Bradford Hall in the amount of \$24,520.

Randall Hall in the amount of \$29,690.

Prospector Park in the amount of \$17,345.

Prospector Village in the amount of \$70,940.

Mines Park in the amount of \$29,585.

Operations Pledged to Open End 1966 Bond Issue in the amount of \$44,535.

Thomas Hall in the amount of \$27,720.

Morgan Hall in the amount of \$16,815.

Mines Park Addition and CSM Houses No. 1 in the amount of \$11,780.

Experimental Plant in the amount of \$27,000.

CSM Athletic Association in the amount of \$47,477.

CSM Houses No. 2 in the amount of \$25,025.

1967-68 Health and Accident Plan for the Associated Students in the amount of \$43,261.

All School (organizations) Budget in the amount of \$35,866.

RECORD OF PROCEEDINGS

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Research Services in the amount of \$183,893.

Upon motion made, seconded, and unanimously passed, the budgets were approved.

College Union Rathskeller. President Childs presented preliminary plans Mr. Greenwald had prepared for a presently unfinished portion of the college union. The estimated cost, exclusive of furnishings, was \$18,000.

Upon motion made, seconded, and unanimously passed, the Board approved the proposed plans but asked for opportunities to review as plans progressed.

The meeting adjourned at 12:00 noon.

President

May 12, 1967