

## RECORD OF PROCEEDINGS

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Golden, Colorado  
January 10, 1969

The Board of Trustees met in regular session on January 10, 1969, 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.

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 13, 1968 were approved.

Mineral Economics. President Childs reported to the Board that the first yearly payment of \$10,000 had been received from the Viola Vestal Coulter Foundation, Inc. He also reported that efforts were being made to determine the availability of persons considered suitable to be appointed to the William J. Coulter Chair in Mineral Economics.

Colorado Commission on Higher Education, Letter of December 16. President Childs had earlier distributed copies of a letter from the Commission in which there had been posed several questions regarding the optimum enrollment and related problems with respect to long-range goals. There was a general discussion of the desired and possible enrollment with the consensus being that an enrollment goal of 2,500 seemed logical and feasible. ✓

Department Heads - Changes. President Childs announced to the Board that Dr. Weimer, Head of the Geology Department, was assuming a full-time teaching professorship at the beginning of next school year and that another department head would be appointed.

He announced that Professor Bass was stepping aside to a full professorship and that Dr. George R. Pickett of the Geophysics Department would head the Department of Petroleum Engineering, beginning in September.

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He announced that Dr. Ramon E. Bisque would assume the position of Head of the Chemistry Department at the beginning of the second semester. Dr. Dumke, presently Head of Chemistry Department, will retire at the end of the school year and is relinquishing his position as Head of Chemistry a semester early to allow orderly transfer of duties.

The question of rotating the chairmanships of the departments was discussed, and while it was conceded that there were advantages and disadvantages to any procedure, it was pointed out that the policy must be set by the administration rather than being left to the individual departments and persons.

Football Coach. Mr. Volk, a member of the committee appointed to make recommendations regarding the new football coach, reported that the committee was in the process of receiving and reviewing applications and that they would be ready to report their recommendations soon.

ROTC. President Childs reported that the practise of continuing mandatory ROTC in the freshman and sophomore years had been discussed with the Curriculum Committee, Administrative Advisory Council, and at the faculty meeting. He reported that the petition which had been made available for signature by the students had not been received by the administration.

It was agreed that it would be premature for the Board to take any action until the Student Council had reported on the situation and until the administration has made a recommendation.

Mr. Steinhauer entered the meeting at this time.

Monthly Reports. Mr. Steinhauer distributed and reviewed the monthly reports as follows: Education and General Fund, Balance Sheet, December 31, 1968; Self-Maintaining Properties, Balance Sheet, Dormitory System Fund, Properties Pledged to Secure CSM 1962 Open-End Bond Issue, December 31, 1968; Self-Maintaining Properties, Balance Sheet, CSM Housing System Fund, Properties Pledged to Secure CSM 1966 Bond Issue, December 31, 1968; Self-Maintaining Properties, Balance Sheet, Properties Pledged to Secure CSM 1955 MPA Bond Issue, December 31, 1968; Self-Maintaining Properties, Balance Sheet, CSM Houses #2, December 31, 1968; Auxiliary Enterprises, Balance Sheet, December 31, 1968; Source of Funds, Restricted for Scholarships and Grants, December 31, 1968; Agency Fund, Source of Funds, December 31, 1968; Summary of Budget Appropriation & Disbursements, December 31, 1968; Budget Summary for Open End 1962 Bond Issue, December 31, 1968; Budget Summary for 1966 Bond Issue, December 31, 1968; Budget Summary for Mines Park Addition and CSM Houses #1,

December 31, 1968; Budget Summary for State Rental Properties, December 31, 1968; Budget Summary for CSM Athletic Association, December 31, 1968; Budget Summary of Health and Accident Plan, December 31, 1968; Budget Summary, Associated Students of CSM, December 31, 1968; Budget Summary of Office of Research Services, December 31, 1968; and the Computing Center, Summary of Budget, December 31, 1968.

Infirmary - Preliminary Plans. President Childs presented an architect's drawing and schmetic plans for a new infirmary.

Upon motion made, seconded, and unanimously passed, the Board approved the general concept of the building plans.

Property Trade. Mr. Steinhauer reported on the progress of the trade of property along Clear Creek for the property owned by Mrs. Comstock on 19th Street. He stated that the Attorney General's office was initiating a quiet title suit on the Clear Creek property. After this is done, legislation will be introduced to allow the trade.

Housing Program. Mr. Steinhauer reviewed for the Board the current guidelines for building facilities under the Housing and Urban Development Agency funding.

After a discussion of the projected enrollment figures and the ratio of married students, it was concluded that the next need to be met in housing programs was more units for married students. Mr. Steinhauer was asked to have some possible site plans and costs drawn up for the consideration of the Board.

Budget Hearing. President Childs reminded the Board of the budget hearing on January 15 and said he would appreciate it if any who could attend would do so. He reviewed briefly the charts which he had prepared for presentation to the Joint Budget Committee.

Commencement Speaker. President Childs reported to the Board that Mr. Joseph Coors will be the Commencement speaker this year.

Upon motion made, seconded, and unanimously passed, the Board voted to confer upon Mr. Coors the honorary degree of Doctor of Engineering.

The meeting adjourned at 12:00 noon.

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Assistant Secretary

January 10, 1969

## RECORD OF PROCEEDINGS

*The Steinhauser minutes took three*

Golden, Colorado  
February 21, 1969

The Board of Trustees met in special session on February 21, 1969, 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.

Dr. Schlechten and Mr. Steinhauser attended the meeting.

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

Previous Minutes. The minutes of the meeting held on January 10, 1969, were approved.

Diplomas. Several suggested forms for the parchment diploma to be awarded for the Bachelor of Science degree were considered. The diploma which had been recommended by President Childs was approved, with the exception that the characters spelling out the name of the graduate not be increased in size.

Honorary Doctorate. Dr. Schlechten stated that President Childs had suggested the name of Dr. James Boyd as a recipient for an honorary Doctor of Philosophy degree at the 1969 Commencement. It was pointed out that Dr. Boyd had an earned Doctor of Science degree at the Colorado School of Mines. It was the consensus that the policy of the Board of Trustees had been not to give honorary degrees to alumni of the institution and it was felt that this policy should be continued.

Leave of Absence - Dr. Weimer. Dr. Schlechten read a memorandum from Dr. Weimer, dated February 3, 1969, requesting a leave of absence for the second semester of the 1969-70 academic year and Dr. Schlechten's memorandum to President Childs, recommending approval of this request.

It was moved, seconded, and unanimously passed that Dr. Weimer's request be granted. Further discussion by the Board of Trustees indicated that a change from Department Head to Professor should be accompanied by a reconsideration of salary, since a larger than usual salary increase was granted at the time of appointment as Department Head.

February 21, 1969

Medalist Files. Mr. Volk, Chairman of the Medalist Committee, stated that his committee had started an evaluation of suggested recipients for the Distinguished Achievement Award. A meeting of the committee has been scheduled for February 24, and it was anticipated that the committee's recommendations will be presented at the March, 1969, meeting of the Board of Trustees.

ROTC. All members of the Board of Trustees had been sent a copy of A Case Against Compulsory ROTC and recognized that a great deal of time and effort and thoughtful research had gone into the presentation. Each member of the Board commented on his thinking regarding the report and action that should be taken. It was the consensus that an early decision on the question is desirable but not necessary. It was further agreed that the Board would like to receive a recommendation from the Curriculum Committee and the Administration on the policy to be followed and that no action would be taken until such recommendation had been received through these channels. Dr. Parker agreed to write to Mr. Douglas Pitts, President of the Student Council, informing him of the Board's deliberations in this matter.

Guggenheim Remodeling. The report of the remodeling of Guggenheim Hall, prepared by the architectural firm of Rogers/Nagel/Langhart, was reviewed. The Board asked that Mr. Steinhauer contact the architects and rewrite the statement on "History" replacing the present statement. The firm was also to be asked for a review of cost for construction of a new administration building with the required space and functions. The report will be reviewed again at the March, 1969, meeting of the Board.

Policy on Tuition Waivers. The statement on tuition waivers presented in memorandum form by Dr. Kuhn was read and discussed. Mr. Volk commented on the action taken by the Colorado Commission on Higher Education that the prime consideration for granting State supported scholarship awards was to be based primarily on need. The Board agreed in principle with the statements and recommendations made by Dr. Kuhn and felt that the administration of the School should implement this policy in the best possible manner to achieve a balanced program.

Monthly Reports. Mr. Steinhauer distributed the monthly reports as follows: Education and General Fund, Balance Sheet, January 31, 1969; Self-Maintaining Properties, Balance Sheet, Dormitory System Fund, Properties pledged to Secure CSM 1962 Open-End Bond Issue, January 31, 1969; Self-Maintaining Properties, Balance Sheet, CSM Housing System Fund, Properties Pledged to Secure CSM 1966 Bond Issue, January 31, 1969; Self-Maintaining Properties, Balance Sheet, Properties Pledged to Secure CSM 1955 MPA

Bond Issue, January 31, 1969; Self-Maintaining Properties, Balance Sheet, CSM Houses #2, January 31, 1969; Auxiliary Enterprises, Balance Sheet, December 31, 1969; Source of Funds, Restricted for Scholarships and Grants, January 31, 1969; Agency Fund, Source of Funds, January 31, 1969; Summary of Budget Appropriation & Disbursements, January 31, 1969; Budget Summary for Open End 1962 Bond Issue, January 31, 1969; Budget Summary for 1966 Bond Issue, January 31, 1969; Budget Summary for Mines Park Addition and CSM Houses #1, January 31, 1969; Budget Summary for State Rental Properties, January 31, 1969; Budget Summary for CSM Athletic Association, January 31, 1969; Budget Summary of Health and Accident Plan, January 31, 1969; Budget Summary, Associated Students of CSM, January 31, 1969; Budget Summary of Office of Research Services, January 31, 1969; and the Computing Center, Summary of Budget, January 31, 1969.

Analysis of Budget Recommendations. An analysis of 1969-70 budget recommendations of the Colorado Commission on Higher Education and the budget as recommended by the Governor, was distributed. This analysis was prepared by Mr. Femmer, Budget Officer.

Policy on Ratio; Resident to Nonresident. President Childs' letter of February 11, 1969, to Dr. Frank C. Abbott, Executive Director of the Colorado Commission on Higher Education, concerning the suggestion that non-resident enrollment at the Colorado School of Mines be limited to 20 percent of total enrollment was read. In this letter Dr. Childs indicated that the recommendation of the Task Force was not to increase the relative numbers of Colorado residents and, further, that it had been a long-standing agreement on the part of the State that Mines will remain open to all qualified nonresident as well as resident students. The Board of Trustees concurred with President Childs' reply.

Policy on Fraternity Boarding. Mr. Steinhauer read a memorandum he had addressed to President Childs, recommending that each freshman living in a School residence hall have the option to elect, by a given date, early in the academic school year, to board at the fraternity house to which he is pledged rather than at the School dining hall and that of the amount charged him for board, which would be collected by the School, the amount paid under our feeding contract would be remitted to the fraternity. The specific details on how this policy would be administered would be prepared in cooperation with the Interfraternity Council. It was moved, seconded, and passed that the above policy be adopted effective with the 1969-70 school year.

Report on Property Trade. Mr. Steinhauer reported

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that a Bill had been introduced in the State Legislature to transfer the property owned by the School adjoining Clear Creek on Eleventh Street in exchange for the property belonging to Mrs. Olmstead at 1202 Nineteenth Street, Golden. The Bill was passed on first reading.

Rental Increases. Copies of a memorandum dated January 24, 1969, addressed to President Childs from Mr. Steinhauer, had been mailed to members of the Board of Trustees. After discussion, it was moved, seconded, and passed that the suggested increases, as follows, shall become effective as of September, 1969.

Men's Residence Halls

Board (Annual)	Increased from \$470 to \$500
Room (Annual)	Increased from \$280 to \$300

Prospector Village

Monthly Rental:	
1-Bedroom Apartment	Increased from \$70 to \$80
2-Bedroom Apartment	Increased from \$80 to \$90
3-Bedroom Apartment	Increased from \$90 to \$100

Prospector Park

Monthly Rental:	
1-Bedroom Apartment	Increased from \$45 to \$50
2-Bedroom Apartment	Increased from \$55 to \$60

Mines Park

Monthly Rental:	
Buffet	Increased from \$70 to \$80
1-Bedroom Apartment	Increased from \$85 to \$100
2-Bedroom Apartment	Increased from \$97.50 to \$115
Small House	Increased from \$120 to \$140
Large House	Increased from \$127.50 to \$150

Rentals above include all utilities except telephone.

Mines Park Addition

Monthly Rental:	
2-Bedroom House	Increased from \$100 to \$120
3-Bedroom House	Increased from \$110 to \$130

Gas and electricity are paid by the tenants.

Bids on Food Service Contract. Quotations had been received from the Prophet Company, Saga, and Professional Food-Service Management for providing food service at the School dining hall and snack bar beginning with the 1969-70 fiscal year. Mr. Steinhauer reported that the quotation

of the Prophet Company was substantially lower than other quotations and recommended that their proposal be accepted. ✓

It was moved, seconded, and passed that the contract for the 1969-70 fiscal year be awarded to the Prophet Company.

HUD Application for Married Student Housing. Mr. Steinhauer reported on his discussions with Mr. James Sudler, architect, and with Mr. Thomas Millisack, Director for the Division of Public Works, regarding an application for additional married student housing at the School. In view of the fact that Mr. Sudler was unwilling to accept the commission for this project and the limited time in which a proposal must be submitted to HUD, it was agreed that no application should be submitted to meet the present deadline of April 1, 1969. Mr. Steinhauer also stated that President Childs was in favor of not submitting an application at this time. ✓

The meeting adjourned at 1:00 p.m.

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Secretary

February 21, 1969

## RECORD OF PROCEEDINGS

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Golden, Colorado  
March 14, 1969

The Board of Trustees met in regular session on March 14, 1969 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 21, 1969, were approved.

New Faculty Appointments. President Childs reported on an unusual situation with regard to faculty appointments.

Albertus T. Janssen had been appointed to the faculty of the Mining Department with the understanding that his contract for the 1968-69 school year would be as an Instructor if he had not completed the work for his doctorate or as an Assistant Professor if he had successfully finished his doctoral program. As of September, Mr. Janssen had not finished his work and he was employed as an Instructor at a salary of \$9,000. Mr. Janssen has now finished his work and the contract was being rewritten as of March 1, 1969 as an Assistant Professor at a salary based on \$11,400 for the school year. President Childs stated that he felt this mid-year promotion would serve as an incentive to others.

Upon motion made, seconded, and unanimously passed, the Board approved this mid-term promotion.

President Childs reviewed the qualifications of two new faculty appointments, to be effective in the fall of 1969. Upon motion made, seconded, and unanimously passed, the following appointments were approved:

Maynard Slaughter	\$17,000
Professor of Chemistry	
Gerald P. Martins	11,000
Assistant Professor of Metallurgical Engineering	

March 14, 1969

Leave - Professor Elwyn Shimoda. President Childs presented a recommendation from Dr. Gary and Dr. Schlechten that Professor Shimoda be granted some financial support on his leave to complete work on his doctoral program. President Childs stated he would like to see Professor Shimoda receive some assistance because he was definitely an asset to the Department of Chemical and Petroleum-Refining Engineering. Professor Shimoda was not eligible for any financial support from State funds because he had not been with the School long enough to qualify for a sabbatical leave.

Upon motion made, seconded, and unanimously passed, the Board approved an additional year's leave of absence without pay and referred the matter of financial aid to the CSM Foundation with the recommendation that the Foundation offer whatever assistance possible to encourage Professor Shimoda in his program.

Distinguished Achievement Medals. Mr. Volk, as chairman of the committee to select candidates, presented a slate of nine for vote by the full Board membership.

After a vote by the Board, it was moved, seconded, and unanimously passed that the following alumni be granted Distinguished Achievement Medals at Commencement on May 29, 1969:

Olin D. Brooks, Geol. E. 1930  
Albert L. Ladner, E. M. 1927  
Herbert Z. Stuart, Met. E. 1936  
Melden E. Volin, E. M. 1933  
George E. Wagoner, Geol. E. 1928

Faculty Contract - Mrs. Barbara Fisk. President Childs had sent to each member of the Board a copy of the faculty data sheet completed by Mrs. Fisk and her department head, Professor Fisher. He stated that in view of the fact that this appointment had been a special one and had been on an experimental basis, he felt it was only fair to all concerned that it should receive special early consideration.

President Childs reported to the Board that the course developed by Mrs. Fisk had been very well received and was popular with the students. Professor Fisher recommended that her contract with the School be continued. President Childs concurred in his recommendation. The Board members stated that they were willing to accept the President's judgment.

Mr. Steinhauer entered the meeting at this time.

Monthly Reports. Mr. Steinhauer reviewed the monthly reports as follows: Education and General Fund, Balance Sheet, as of February 28, 1969; Self-Maintaining

Properties, Balance Sheet, as of February 28, 1969; Auxiliary Enterprises, Balance Sheet, February 28, 1969; Source of Funds, Restricted for Scholarships and Grants, February 28, 1969; Agency Fund, Source of Funds, February 28, 1969; Summary of Budget Appropriations & Disbursements, February 28, 1969; Budget Summary for Open End 1962 Bond Issue, February 28, 1969; Budget Summary for 1966 Bond Issue, February 28, 1969; Budget Summary for Mines Park Addition and CSM Houses #1, February 28, 1969; Budget Summary for State Rental Properties, February 28, 1969; Budget Summary for CSM Athletic Association, February 28, 1969; Budget Summary of Health and Accident, February 28, 1969; Budget Summary, Associated Students of the Colorado School of Mines, February 28, 1969; Budget Summary of Office of Research Services, February 28, 1969; and Computing Center, Summary of Budget, February 28, 1969.

Mr. Steinhauer was instructed to make a compilation and analysis of the various checking accounts of the School for special distribution to the Board.

Electrical Distribution System. President Childs presented a memo from Mr. Steinhauer with which plans and specifications for the electrical distribution system were transmitted. These plans and specifications had been approved by the Public Works Division of the State.

The project is Phase 1 of the expansion of the electrical distribution system as planned in our long-range utility survey of 1967. It provides for installation of an underground 4,160 volt transmission line to run from the substation north of the dormitories to the transformer vault in Chauvenet Hall.

Funding in the amount of \$27,000 has been approved in the current year's capital construction funds.

Upon motion made, seconded, and unanimously passed, the Board approved the plans and specifications as submitted.

Guggenheim Remodeling. President Childs reported to the Board that there had been concern expressed regarding the amount of money estimated for remodeling Guggenheim Hall. The Commission of Higher Education and the Division of Public Works have agreed with cost estimates and that there is value in preserving a building which has been such an integral part of the campus for a very long period of time.

The Commission has affirmed its support of the remodeling of Guggenheim Hall and has given it high priority.

President Childs reported receipt of a check in the amount of \$100,000 from Mrs. Simon Guggenheim to be used toward the remodeling project.

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Mr. Eisenach left the meeting at this time.

1969-70 Budget Items. President Childs reported to the Board the divergence which has developed between the salaries of the administrative staff and the teaching staff, as well as with similar positions in private industry and other governmental agencies. He stated that he intended to try to correct this as much as possible with the new contracts which would be coming out.

CCHE Representation at Board Meetings. Mr. Volk and Dr. Parker reported on an inquiry from the Colorado Commission on Higher Education with regard to a representative attending the Board meetings. Such representation would be for the purpose of lending assistance to the Board and presenting the Commission's viewpoint on a particular subject. There would also be occasions when it would be beneficial for the Commission to learn more about the School's position on a particular subject.

It was agreed that such an arrangement might be quite helpful, but it was agreed that it would be an imposition on the time of the Commission members to expect regular attendance. It was decided that the agenda for the Board meetings would be prepared a week in advance and a copy mailed to Dr. Parker. Dr. Parker would, in conference with Dr. Abbott, arrive at a decision as to whether or not the presence of a Commission member would be beneficial.

Honorary Degrees. The name of Dr. Carl Borgmann was presented to the Board as a nominee for an honorary degree. It was generally agreed that Dr. Borgmann's contributions to the School, to engineering education, and to the mineral industries were such that an honorary degree would honor both Dr. Borgmann and the School.

Upon motion made, seconded, and unanimously passed, the Board voted to award Dr. Carl Borgmann an honorary degree of Doctor of Engineering at Commencement on May 29, 1969, subject of course to his willingness to accept such degree.

The meeting adjourned at 12:30 p.m.

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Assistant Secretary

March 14, 1969

## RECORD OF PROCEEDINGS

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Golden, Colorado  
April 11, 1969

The Board of Trustees met in regular session on April 11, 1969, at 8:30 a.m., in the President's Office of the Colorado School of Mines.

Present: Messrs. Parker, Stockmar, and Volk.

Absent: Messrs. Alexander and Eisenach.

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 March 14, 1969 were approved.

Enrollment Predictions. President Childs had furnished the members of the Board with copies of the correspondence he had with Dr. Abbott, Colorado Commission on Higher Education, with regard to enrollment.

The members of the Board reaffirmed their previous position that there should be no attempt at this time to project or attain certain static proportions between resident and nonresident students; enrollment should be kept open to all who qualify for admission. A reasonable optimum size still seems to be approximately 3,000 students.

Certificates of Appreciation. President Childs reported to the Board that the following members of the faculty would be retiring at the end of the school year: Paul F. Bartunek; Walter H. Dumke; and N. Cyril Schieltz.

In view of the long and meritorious service rendered by these men, it was moved, seconded, and unanimously approved that these men receive silver certificates of appreciation.

Professional Degrees Previously Granted. President Childs and Dr. Parker reviewed the letter received from the alumnus asking that those who had received professional degrees requiring from 165 to 200 hours be given Master's degrees under a "grandfather clause."

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In view of the difference in requirements for the two degrees, it was not considered feasible to take action as requested in the letter from the alumnus.

Mr. Steinhauer entered the meeting at this time.

Audit. President Childs reported that the State Auditor's office had made the audit for the year ending June 30, 1968, and was submitting its report. The State Auditor had furnished the administration with a pre-release copy of the audit and comments. President Childs was sending a letter to the State Auditor answering the comments.

One of the items mentioned by the audit report was the resolution adopted at the June 14, 1968, meeting pledging \$269,000 of School-controlled funds toward the completion of the Graduate and Professional Center.

As a confirmation of prior decisions of the Board, it was moved, seconded, and unanimously passed that the following resolution be adopted:

WHEREAS the \$269,000 pledged by the Board of Trustees at the June 14, 1968, meeting was in response to a desirable addition to our earlier building budget to provide specifically for research facilities in the basement, and

WHEREAS subsequent plans have been made to leave this portion of the building unfinished, and

WHEREAS the building is to be built on the original \$2,600,000 budget which was established before this research laboratory was brought into the planning, now therefore be it

RESOLVED that the pledge of June 14, 1968, represents an action that is no longer needed and is hereby rescinded.

Salary Schedules. President Childs distributed copies of the salary schedules, based on the assumption that the legislature would approve an adequate appropriation.

After discussion, the following salaries and promotions were approved:

Jose F. T. Agapito	\$ 8,000
Instructor in Mining Engineering	
William R. Astle	11,000
Assistant Professor of Mathematics	

Henry A. Babcock Professor of Basic Engineering	\$14,300
Charles Baer Assistant Professor of Mathematics	11,600
Theodore Balberyszski Instructor in Metallurgical Engineering	9,000
Geraldine D. Bariani Librarian	9,600
Carlisle T. Barry Librarian	9,000
Daniel M. Bass, Jr. Professor of Petroleum Engineering	17,300
George T. Bator Associate Professor of Mining Engineering	12,000
Victor W. Bauman Assistant Professor of Mathematics	12,000
Kenneth E. Bellamy, Jr. Director of Student Housing and Director of the College Union	10,600
Jerry R. Bergeson Assistant Professor of Petroleum Engineering	12,000
Ramon E. Bisque Professor of Chemistry and Head of Department	16,500
Harold Bloom Associate Professor of Geology	12,000
Ardel John Boes Associate Professor of Mathematics	12,500
Don Loren Bohmont Assistant Professor of Mathematics	9,900
Ralph B. Bowersox Professor of Physics and Head of Department	17,300
Walter L. Bradley Assistant Professor of Metallurgical Engineering	12,000
Fritz S. Brennecke Professor and Head of Department, Physical Education and Athletics	15,300

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Austin R. Brown, Jr. Director of the Computing Center and Professor of Mathematics	15,500
James T. Brown Assistant Professor of Physics	11,500
William Rex Bull Associate Professor of Metallurgical Engineering	13,300
H. Dean Burdick Director of Admissions	14,000
Jerrold J. Burnett Associate Professor of Physics	12,400
Frank R. Campbell Associate Professor of Basic Engineering	11,700
Robert H. Carpenter Professor of Geology	14,200
William J. Chapitis Assistant Professor of English and Modern Foreign Languages	11,200
W. John Cieslewicz Assistant Professor of Russian and German	9,200
W. D. Copeland Associate Professor of Metallurgical Engineering	13,200
Bernetta Conrey Departmental Assistant	8,200
Catharine S. Cross Librarian	8,400
Lloyd Cubbison Director of Public Information	8,000
Stephen Ray Daniel Instructor in Chemistry	9,000
James Darden Associate Professor of Physical Education and Athletics	12,900
Byron N. Darnell Conductor of the Band and Glee Club (on a part-time basis)	4,200

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Joseph E. Davies Associate Professor of Physical Education and Athletics	\$13,500
Richard H. DeVoto Assistant Professor of Geology	11,500
Dean W. Dickerhoof Associate Professor of Chemistry	12,400
Philip F. Dickson Professor of Chemical and Petroleum- Refining Engineering	14,000
James Dover Assistant Professor of Geology	10,800
Kenneth W. Edwards Assistant Professor of Chemistry	11,200
Rudy C. Epis Professor of Geology	14,000
Elsie Christine Ericson Librarian	8,400
Robert R. Faddick Assistant Professor of Basic Engineering	11,500
L. David Femmer Budget Officer and Personnel Officer	13,000
Joseph J. Finney Associate Professor of Geology	12,800
Edward G. Fisher Professor of English and Head of Department	16,600
Barbara J. Horn Fisk Assistant Professor of Humanities	9,600
S. Dale Foreman Associate Professor of Basic Engineering	12,500
Hildreth Frost, Jr. Research Assistant in Metallurgical Engineering	10,000
Charles O. Frush Associate Professor of Mining Engineering	12,500
James H. Gary Professor of Chemical and Petroleum- Refining Engineering and Head of Department	19,300

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John M. George Assistant Professor of English	\$10,000
John O. Golden Assistant Professor of Chemical and Petroleum-Refining Engineering	12,200
Robert L. Greenwald Director of Plant Facilities	15,000
L. Trowbridge Grose Professor of Geology	14,700
Niles E. Grosvenor Associate Professor of Mining Engineering	12,000
Raymond R. Gutzman Associate Professor of Mathematics	12,000
Frank A. Hadsell Professor of Geophysics	14,500
John P. Hager Assistant Professor of Metallurgical Engineering	11,900
John W. Hancock Associate Professor of Physical Education and Athletics	11,600
Jens Viggo Hansen Assistant Professor of English	9,600
John D. Haun Professor of Geology	15,300
John R. Hayes Professor of Geology	14,900
Paul G. Herold Professor of Metallurgical Engineering and Head of Department	18,500
Carl L. Hiltrop Associate Professor of Chemistry	11,300
John A. Hogan Assistant Professor of English	10,200
John C. Hollister Professor of Geophysics and Head of Department	19,900

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William Hustrulid	\$12,000
Assistant Professor of Mining Engineering	
Robert M. Hutchinson	13,000
Associate Professor of Geology	
Albertus T. Janssen	12,000
Assistant Professor of Mining Engineering	
George W. Johnson	13,000
Associate Professor of English	
Leonard L. Johnson	9,500
Assistant Finance Officer	
James G. Johnstone	14,500
Associate Professor of Basic Engineering	
A. Raymond Jordan	19,600
Dean of the Graduate School and Professor of Physics	
Leonard Kalal	10,800
Assistant Professor of Philosophy	
Marvin L. Kay	10,500
Assistant Professor of Physical Education and Athletics and Head Football Coach	
Albert M. Keenan	14,000
Associate Professor of Mining Engineering and Acting Head of Department	
George V. Keller	15,500
Professor of Geophysics	
George H. Kennedy	11,200
Assistant Professor of Chemistry	
Harry C. Kent	14,700
Associate Professor of Geology and Acting Head of Department	
Arthur J. Kidnay	12,200
Assistant Professor of Chemical and Petroleum-Refining Engineering	
John V. Kline	13,800
Professor of Physics	
Donald T. Klodt	16,700
Research Coordinator and Associate Professor of Metallurgical Engineering	

Truman H. Kuhn Vice President for Administrative Affairs and Professor of Geology	\$21,500
Winton Laubach Assistant Professor of Mathematics	9,000
William B. Law Associate Professor of Physics	12,500
William E. Leckie Assistant to the President	11,700
Joseph R. Lee Professor of Mathematics and Head of Department	17,000
Paul H. LeFevre Assistant Professor of Chemistry	9,700
L. W. LeRoy Professor of Geology	15,200
James E. Lindsay, Jr. Associate Professor of Basic Engineering	14,300
J. D. Lubahn Professor of Metallurgical Engineering and Director of Materials Research Laboratory	16,800
George B. Lucas Professor of Chemistry	14,500
Maurice Major Professor of Geophysics	14,500
Scott J. Marshall Assistant Professor of Basic Engineering	11,300
Warren J. Mason Registrar	11,800
Donald C. B. Marsh Professor of Mathematics	12,500
Frank S. Mathews Professor of Physics	13,700
William A. Mattingly Instructor in English	7,800
Robert W. McAllister Associate Professor of Physics	14,000

April 11, 1969

George T. Merideth Professor of Geophysics	\$16,500
C. Samuel Miller Assistant Professor of Physics	11,800
B. J. Mitchell Assistant Professor of Petroleum Engineering	12,000
Fred E. Moore Professor of Geology	14,000
Gabriel M. Neunzert Instructor in Basic Engineering	8,400
Carl G. Nordquist Assistant Professor of Economics	11,500
Robert B. Osborn Associate Professor of Mathematics	12,800
Bartlett W. Paulding, Jr. Professor of Basic Engineering and Head of Department	15,500
Robert W. Pearson Instructor in Physical Education and Business Manager of Athletics	10,000
Anton G. Pegis Vice President for Development and Professor of English	18,000
George R. Pickett Professor of Petroleum Engineering and Head of Department	15,700
Justin Pierce Assistant Professor of History and Philosophy	9,500
Ronald D. Preston Associate Professor of Basic Engineering	11,800
Willard W. Pulkrabek Assistant Professor of Basic Engineering	11,500
Hormuzd Y. Rassam Associate Professor of Basic Engineering	12,500
John J. Reed Professor of Mining Engineering on a half-time basis	8,650

April 11, 1969

Robert D. Reed Assistant Professor of Physics	\$12,000
Paul A. Rogers Professor of Geophysics	14,300
Oded Rudawsky Assistant Professor of Economics	12,000
Arthur Y. Sakakura Associate Professor of Physics	13,000
A. W. Schlechten Vice President for Academic Affairs and Director of Institute of Extractive Metallurgy	26,500
Samuel Shaw, III Instructor in Mining Engineering	9,000
Ruth B. Simon Research Associate, Department of Geophysics	11,000
George T. Sisson Laboratory Assistant in Chemistry	9,400
Margaret Smart Librarian	10,300
Francis E. Smiley, Jr. Dean of Students and Associate Professor of Basic Engineering	16,800
David T. Snow Associate Professor of Geology	12,800
Richard E. Stapp, Jr. Assistant Professor of Physical Education and Athletics	10,200
Charles W. Starks Assistant Professor of Chemistry	11,500
Gurnett Steinhauer Vice President for Business Affairs	20,000
Franklin J. Stermole Associate Professor of Chemical and Petroleum-Refining Engineering	13,500
Robert J. Taylor Assistant Professor of Basic Engineering	9,800

John C. Thomas	\$ 8,600
Research Assistant, Department of Chemical and Petroleum-Refining Engineering	
David W. Trexler	12,000
Associate Professor of Geology	
Frank R. Utter	12,800
Finance Officer	
Elliot W. Wager	10,200
Assistant Professor of English	
Cooper H. Wayman	12,900
Associate Professor of Chemistry	
Robert J. Weimer	17,600
Professor of Geology (leave without pay for second semester)	
Walter W. Whitman	14,500
Professor of Mathematics	
Virginia Lee Wilcox	14,300
Head Librarian	
Thomas Wildeman	10,900
Assistant Professor of Chemistry	
John T. Williams	14,500
Professor of Chemistry	
Milton A. Wiltse	10,600
Assistant Professor of Geology	
Robert D. Witters	11,900
Associate Professor of Chemistry	
F. Richard Yeatts	12,000
Associate Professor of Physics	

Monthly Reports. Mr. Steinhauer distributed the monthly reports as follows: Summary of Budget Appropriations and Disbursements, as of March 31, 1969; Summary for Open End 1962 Bond Issue, March 31, 1969; Budget Summary for 1966 Bond Issue, March 31, 1969; Budget Summary for Mines Park Addition and CSM Houses #1, March 31, 1969; Budget Summary for State Rental Properties, March 31, 1969; Budget Summary for CSM Athletic Association, March 31, 1969; Budget Summary of Health and Accident, March 31, 1969; Budget Summary for CSM Associated Students, March 31, 1969; Budget Summary of Office of Research Services; Computing Center, Summary of Budget, March 31, 1969; Education and General Fund, Balance Sheet, March 31, 1969; Balance Sheet, Self-Maintaining Properties, Dormitory

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System Fund, Properties Pledged to Secure CSM 1962 Open End Bond Issue, March 31, 1969, Balance Sheet, Self-Maintaining Properties, CSM Housing System Fund, Properties Pledged to Secure CSM 1966 Bond Issue, March 31, 1969; Self-Maintaining Properties, Balance Sheet, Properties Pledged to Secure CSM 1955 MPA Bond Issue, March 31, 1969; Self-Maintaining Properties, Balance Sheet, CSM Houses #2, March 31, 1969; Auxiliary Enterprises, Balance Sheet, March 31, 1969; Source of Funds, Restricted for Scholarships and Grants, March 31, 1969; and Agency Fund, Source of Funds, March 31, 1969.

Checking Accounts. Mr. Steinhauer, as instructed at the March meeting, had prepared a tabulation and explanation of all checking accounts. The Board examined the listing and approved the method of handling such cash accounts.

Appraisal of Thuet Property, 815 Fifteenth Street. Mr. Steinhauer reported that he had been contacted by the attorney handling the estate of Mr. Thuet with regard to purchase by the School. Mr. Steinhauer had engaged an appraiser and the property had been appraised at \$14,000.

It was moved, seconded, and unanimously approved that the administration be authorized to offer the appraised price of \$14,000 out of the Land Acquisition Fund.

McMahan Property, 1005 Fifteenth Street. Mr. Steinhauer reported that he had been advised by the Attorney General's office that the property in question, should it go to court, might well cost the School more than the price now being asked, \$17,200. This opinion was based on the following: the appraisal for \$15,000 was made in 1965; if the case is tried by a commission, the fees will be approximately \$700; other charges such as expert witnesses fees could amount to \$1,000; and condemnation suits in Jefferson County generally range 20 to 25 percent above the condemnor's high testimony.

In view of the advice given by the Attorney General and the facts as presented by that office, Mr. Steinhauer was authorized to offer up to \$17,200 for the property.

Honorary Degree. President Childs reported that Dr. Carl Borgmann had declined, not without expressed appreciation, the acceptance of an honorary degree. He felt it might reflect on work he is doing for the Western Interstate Commission for Higher Education with regard to coordination of college and university efforts in particular fields.

Governing Boards. Mr. Volk presented a proposal made by Mr. Donald McKinley of the Colorado Commission on Higher Education which would provide for a system of

rotating boards of control for all state colleges and universities. Since there was no specific action being taken at this time, the item was merely discussed. The position of the Board is still that we would not oppose being under a university governing board as long as we maintained our identity, functions, assets, etc.

Fraternity Finances. President Childs reported to the Board that there had been formed an Alumni Inter-Fraternity Council and one of the problems being discussed was the outstanding debts each fraternity had from members and former members. President Childs stated he would like to be able to cooperate with the fraternities in collecting these funds.

It was the opinion of the Board that the matter should be discussed further, that it would be a good thing if the School could be helpful, but no decision was made at this time.

Standards and Codes of Conduct. President Childs had distributed to the members of the Board a statement on Standards and Codes of Conduct expected of the students at the Colorado School of Mines.

This statement, with only minor changes, was approved.

Athletics. President Childs reported that the Colorado Commission on Higher Education was somewhat concerned about the extent to which they should involve themselves in the inter-collegiate athletics of the State schools. Mr. Volk, as a member of the Advisory Board of the Commission, had been asked four questions by the Commission with regard to the athletic program at Mines.

Detailed answers to these questions had been prepared by President Childs. Copies of these answers were distributed to the Board for examination.

Upon motion made, seconded, and unanimously passed, the Board approved the philosophy and policies as stated.

Remodeling of Guggenheim Hall. Mr. Volk reported that the Colorado Commission on Higher Education had agreed to support and to recommend to the Joint Budget Committee the addition of \$200,000 in Capital Construction Funds toward the remodeling of Guggenheim. This promised support was based on the provision that the School would raise \$100,000 from private sources to go along with the \$100,000 already received for this purpose from Mrs. Guggenheim.

The meeting adjourned at 12:30 p.m.

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Assistant Secretary

April 11, 1969

# RECORD OF PROCEEDINGS

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Golden, Colorado  
May 9, 1969

The Board of Trustees met in regular session on May 9, 1969, 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 11, 1969 were approved.

New Faculty Appointments. President Childs reviewed the qualifications of several new appointees to the faculty.

Upon motion made, seconded, and unanimously passed, the following appointments were approved:

Donald Grybeck	\$10,200
Assistant Professor of Geology	
John O. Kork	11,000
Assistant Professor of Mathematics	
Keenan Lee	11,000
Assistant Professor of Geology	
H. K. van Poolen	7,000
Adjunct Professor of Petroleum Engineering	
Robert G. Reeves	16,500
Professor of Geology	

Candidates for Degrees. President Childs distributed lists of candidates for degrees.

Upon motion made, seconded, and unanimously passed, the following were approved for degrees on the dates specified, subject to the completion of all academic requirements and continued compliance with acceptable institutional standards of conduct:

May 9, 1969

May 29, 1969

BACHELOR OF SCIENCE (MINING ENGINEERING)

Charles Raymond Hellman

BACHELOR OF SCIENCE (METALLURGICAL ENGINEERING)

Rodney Clifford Hodgson

ENGINEER OF MINES - PROFESSIONAL DEGREE

William Bradley Bauer	Brian William Lawrence
Ronald Floyd Bills	Edward Arthur Madson
William Robert Casey, Jr.	Bruce Austin McKinstry
John Randolph Coffman	Leslie Shaw McMillin, Jr.
Jack Erik Danel	Marlin Gary Meents
Julian Leroy Davis	Patricia Collene Mosch
Robert Joe Deurloo	Michael Wayne Mosley
James Selkirk Falconer	James Moore Riddle
Elizabeth Lenore Gibbs	Steen Ronlov
Donald Frederick Gottron	Norman Alexander Ross
Barry John Haupt	Dale Robert St. Laurent
Robert Clyde Hoge	Fred Joseph Scheaffer
Andrew Hoover	Bhawanipratap C. Singh
Robert Burris Humphrey	Thomas Carl Sorensen
Tom Johansen	Thomas Whitney Sylvester
George Marshal Kallis	Robert Ives Watkins
John Rudolph Kennedy	Gary Robert Williams
Fredric J. Kerulis	Peter Schofer Wyckoff
Karl Michel Kolin	Daniel Patrick Zerga

METALLURGICAL ENGINEER - PROFESSIONAL DEGREE

John Francis Bates	Wesley Louis Lynn
Robert Lyle Baumann	Thomas Eugene Martin
Arthur Clyde Beck, Jr.	Robert Lee McLemore
Ted Williams Brown	Steven Glen Miller
Todd Arthur Brown	Stuart Clark Otterness
Van Lawrence Clay	Gregory Louis Paolino
Michael Kelly Dreher	William Morgan Phillips, Jr.
Gary John Gehlhoff	Kenneth Eugene Porter
John Arthur Geis	John Walter Powell
Larry Edward Hayes	Charles Alan Price
Michael Kenton Hendrickson	Douglas Warren Roth
Ronald William Hibbert	Kenneth Leroy Rutt
Thomas Orne Hiscox	Jay Alan Spickelmier
Richard J. Karlin	Gregory Dalton Stark
James Andrew Krebs, Jr.	Larry Kent Sutherland
Gary Keith Lewis	Daniel Carl Zabel, II
Christopher Knap Loomis	
John Dawson Low	
Larry Lain Ludwig	

May 9, 1969

GEOLOGICAL ENGINEER - PROFESSIONAL DEGREE

Harry George Beggs, Jr.	Michael Kui Yin Mau
Stephen Richard Blanco	John Thomas McDonough, Jr.
John Michael Bragg	Morris Albert Miceli
Christopher Robert Candee	Patricia Collene Mosch
Samuel Brandon Clifford	Karl Russell Nelson
George William Condrat	Alexander Howard Paul
William Kent Crowder	George William Quinn
Frederick Richard Dowsett, Jr.	Michael Paul Richardson
James Geonard Evans	Eric Christopher Smith
Ronald G. Halderman	Linden Earl Snyder
Charles Michael Hamilton	David L. South
Stephen Slater Hart	Albert Emil Theberge, Jr.
Kirk Reed Hindley	Charles Michael Trautwein
David Gilbert Hjelstrom	Malcolm Kyle Tudor
Richard A. Johnson	Y. Jack West
John Michael Klein	Ronald Edward Wolf
Robert Thomas Larson, Jr.	David Edmund Wright
Douglas Norman Leitner	Harris Hale Yeager
Steven Joseph Maione	

PETROLEUM ENGINEER - PROFESSIONAL DEGREE

William A. Abbott	John Philip Harpel, Jr.
Mary Beth Patterson Beach	Larry Duane Hartman
Alan Duchesne Bell	William Dennis Heagney
Roland Eugene Blauer	Daryl Lynn LeFevre
Larry Bryce Brethauer	James William Lemm
Charles Alan Brown	Guntis Moritis
Ricky Dean Clark	Scott Michael Sissman
Ronald Johnston Cooper	Harry Vane Temple, Jr.
Jerry Kenneth Gause	

PETROLEUM REFINING ENGINEER - PROFESSIONAL DEGREE

Richard Alan Anderson	Hans Peter Larsen
Rick G. Avis	Michael Anthony Lobue
George Dale Barnhill	William Philip Long
Trakarn Chairat	Michael D. McIntosh
Paul Lawrence Cuneo	Girishchandra M. Patel
Daniel Wayne Ferguson	Jesus Ulpiano Reyes
Bruce Gaylord Frenzel	Stanley Sands Smith
William John Haldane	William Crayton Tieman
Timothy Linn Heckel	Arthur Eugene Tryon
James A. Heist	Bill E. Watson, Jr.
Jerry Thomas Laman	Johnny Roy Westbrook
George S. Lapinski	Sidney P. White

GEOPHYSICAL ENGINEER - PROFESSIONAL DEGREE

Sohrab Reza Batmanglidj	David Michael Hammond
Steven James Buchanan	Frank Look Kin
James Allan Campbell	Jesse Maria Martinez
Richard P. Crist	Alpheus C. Newman

James Arthur Dubee	Raymond William Reilly
Robert Hall Elliott	Raymond Francis Stewart
David Vincent Fitterman	Dennis George Strauch
Joseph Albert Gill	Ronald Douglas Yukio Uchida
Howard Mark Gollnick	Michael Lee Visscher

MINERAL ENGINEER - CHEMISTRY - PROFESSIONAL DEGREE

John Allen Chapman	Terry William Pepper
David Lee Lundquist	James Eugene Willey, Jr.

MINERAL ENGINEER - MATHEMATICS - PROFESSIONAL DEGREE

Christopher Robin Borgsteadt	Robert Milton McFatter
Petrick Doff Coyle	Barry Wayne Nash
Gregory Allen Haynes	E. Stuart Nelan
Richard Carney Heard	Ken Rogers Powell
Frederick Joseph Hebein	Rosalyn Irmgard Riesner Temple
John Richard Hinton	Charles Dyer Trechter
Michael A. McDonald	Richard Charles Walker
Thomas Michael Mauro	

MINERAL ENGINEER - PHYSICS - PROFESSIONAL DEGREE

Gerald Lee Boyd	John William Likes
Charles Michael Brown	Steven Dana McCulloch
David Mohn Chambers, Jr.	David L. Ross
David Lynn Francis	Mary Anne Zemitis
Robert Claude Hess	James Robert Zimmerschied
Bill E. Jump	

July 19, 1969

BACHELOR OF SCIENCE (MINING ENGINEERING)

Damon Mabry Ogle

BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

Daniel F. Evans

ENGINEER OF MINES - PROFESSIONAL DEGREE

James David O'Donovan

METALLURGICAL ENGINEER - PROFESSIONAL DEGREE

Craig Ralston Windbigler

PETROLEUM ENGINEER - PROFESSIONAL DEGREE

Stephen R. Smith	Terrence Douglas Stevens
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May 9, 1969

Department of Metallurgical Engineering

Jaime Arismendi  
Edmund Palmer Finch  
William Hawkesworth  
Madhukar Mehta

Alistair Hislop Montgomery  
Clark Louis Wollenweber II  
German Zambrana Zenteno  
Adolfo R. Zambrano V.

Department of Geology

Ricardo Camacho Garcia  
Stephen Paul Collings  
Mohamed Jameel Hassan Kouter  
John D. Mayhew  
Frederick E. Welsh, Jr.

Gary R. Morris  
Eduardo Moya  
Walter H. Pierce  
Mark Edward Shaffer  
Peter Charles Young

Department of Petroleum Engineering

Aydogan Akyuz  
Homer Joe Boyd  
C. Douglas Howald

J. Michael Lacey  
John Floyd Messner

Department of Chemical and Petroleum-Refining Engineering

Yusuf Alfarkh  
Raymond Anderson  
Franklin Alvaro Antezana V.  
Peter George Garside  
Hoagy Kim

Pramod J. Lavingia  
Karl Alexander McKinstry  
Antonio Jesus Romanach  
Peter Raymond Pujado  
Charles Russell Vestal

Department of Geophysics

James Kieth Applegate  
Ninos B. Banyamin  
Emil Frederick Homuth  
Michael Kowalski  
Robert R. Morgan

T. Demir Ozcandarli  
Christopher Robert Porter  
Tomas Leighton Puga  
Edward Baldwin Reynolds  
Luis Silva Rivera

Department of Mathematics

Douglas Frank Miller

Department of Physics

M. Douglas Hale

INTERDISCIPLINARY MASTER OF SCIENCE

Departments of Chemistry & Chemical and Petroleum-  
Refining Engineering

Kenneth Leroy Engelhardt

Departments of Chemistry and Geology

Philip M. Cook

GEOPHYSICAL ENGINEER - PROFESSIONAL DEGREE

Craig Earl Moore

MINERAL ENGINEER - MATHEMATICS - PROFESSIONAL DEGREE

Charles Douglas Dirks

September 13, 1969

BACHELOR OF SCIENCE (MINING ENGINEERING)

William Frederick Martin, Jr.

ENGINEER OF MINES - PROFESSIONAL DEGREE

Mark G. Sanders

METALLURGICAL ENGINEER - PROFESSIONAL DEGREE

Ronald Dean Adams  
Richard Julian Carlson

James Bradford Stacy

GEOLOGICAL ENGINEER - PROFESSIONAL DEGREE

Carl Frederic Dietz  
Peter Allen MacFarlane

Stephen Michael Nicolais

PETROLEUM ENGINEER - PROFESSIONAL DEGREE

Ronald Eugene Hogan  
Robert S. Thompson

Peter Kent Tribelhorn  
David Lee Wacker  
John Dumont Wright

PETROLEUM REFINING ENGINEER - PROFESSIONAL DEGREE

Khaled S. M. Buhamrah  
Abelardo A. Cruz  
Mark Jose Dominguez

Kenneth Robert Donley  
Larry Gene Thomas  
Richard Eldon Voiles

MINERAL ENGINEER - CHEMISTRY - PROFESSIONAL DEGREE

Jack Michael Conley  
Paul Joseph Murphy  
Robert Carl Nelson

John Douglas Pitts  
David Alan Roberts  
Steven William Winfrey

May 29, 1969

MASTER OF SCIENCE

Department of Mining Engineering

David Frank Harper  
Guenter Bruno Moldzio

May 9, 1969

DOCTORATES

Doctor of Philosophy (Mining Engineering)

A. T. Janssen

Doctor of Philosophy (Metallurgical Engineering)

Hans Jozef Boving	David Allen Rice
Martin Clifford Kuhn	David Arthur Rice
Jan D. Miller	

Doctor of Science (Geology)

Carl Everett Hedge  
Donald Grybeck

Doctor of Philosophy (Chemical and Petroleum-Refining Engineering)

Dudley James McCracken, Jr.  
Philip Michael Rooke  
K.K.G. Lakdasa Wijetilleke

Doctor of Philosophy (Geophysics)

Johann Hans Leitinger  
Phillip Richardson Romig, Jr.

Doctor of Science (Geophysics)

David Lester Butler  
Norman Harthill  
Jimmy Joe Jacobson

INTERDISCIPLINARY DOCTORAL PROGRAMS

Doctor of Philosophy (Departments of Mathematics & Mining Engineering)

Brian Thomas Brady

Doctor of Philosophy (Departments of Physics and Metallurgical Engineering)

Millard M. July

Leave - Dr. John J. Reed. President Childs reported to the Board that Dr. Reed has requested a half-time assignment for the 1969-70 school year.

Upon motion made, seconded, and unanimously passed, the Board approved the half-time leave for Dr. Reed.

President Childs stated that Professor Keenan was willing to take over the administrative duties as acting department head for the year 1969-70.

Department of Mineral Economics. President Childs reviewed for the Board the discussions which had been held with regard to division of the department which is now called the Department of Humanities and Social Studies. This department now includes among other subjects the courses in economics. The Colorado Commission on Higher Education has approved a Master's degree in Mineral Economics; and for a long time there has been discussion about making this course of study a separate department.

It was moved, seconded, and unanimously passed that there be established a separate department called the Department of Mineral Economics.

It was moved, seconded, and unanimously passed that Dr. J. P. Mather be given a contract as Professor of Mineral Economics and Head of Department at a salary of \$15,000 for the 1969-70 school year.

It was moved, seconded, and unanimously passed that Dr. Hubert E. Risser be offered the appointment as Coulter Professor for one-half year, effective January 1, 1970.

ROTC. The Board considered the proposition that ROTC at the School, which is now required of all students for the first two years of their academic careers, be made voluntary. In its deliberations, the Board reviewed the recommendations of the Student-Faculty-Administration "ROTC Evaluation Committee"; and over the course of the last few months the Board has reviewed other material in connection with the matter. Findings of the Curriculum Committee were also reviewed.

It is evident from the report of the Committee and from other data that there does not exist a clear-cut majority view favoring either a voluntary or involuntary program. In addition, and independent of the Committee reports, the Board itself is not satisfied that the ROTC program as it is now presented is best meeting the objectives of the institution which the program must promote in order to justify its continuation.

Examination of the question has been valuable in its disclosure of the deficiencies in the program and has made possible the identification of the values of a proper program. This examination also points the way to better the program, whether the program be voluntary or involuntary.

May 9, 1969

Consideration of the question has also made it evident that to make the program as it is now presented voluntary instead of involuntary would so weaken the program that it might be tantamount to abolishing it entirely. This the Board is not now prepared to do.

The Board, therefore, has decided to continue the program as now constituted for the school year 1969-70 but with such improvements as can be made during the summer and during that school year, 1969-70, to accomplish significant alterations in the program. These alterations may include making the program entirely voluntary, making it required for one year only, continuing a two-year required program on a significantly improved basis, or such other change as further study indicates.

Doctoral Degree in Mathematics. President Childs distributed copies of a proposal prepared by Dr. Lee, Head of the Department of Mathematics, for a doctoral degree in Mathematics emphasizing operations research in mineral resource fields. The proposal had been recommended by the Graduate Council and the Graduate Faculty, as well as Dean Jordan.

No action was asked at this time.

The meeting recessed for lunch and afterwards Mr. Steinhauer joined the meeting.

Monthly Reports. Mr. Steinhauer distributed the monthly reports as follows: Education and General Fund, Balance Sheet, April 30, 1969; Self-Maintaining Properties, Dormitory System Fund, Properties Pledged to Secure CSM 1962 Open-End Bond Issue, as of April 30, 1969; Self-Maintaining Properties, Balance Sheet, CSM Housing System Fund, Properties Pledged to Secure CSM 1966 Bond Issue, April 30, 1969; Self-Maintaining Properties, Balance Sheet, Properties Pledged to Secure CSM 1955 MPA Bond Issue, April 30, 1969; Self-Maintaining Properties, Balance Sheet, Colorado School of Mines Houses #2, April 30, 1969; Auxiliary Enterprises, Balance Sheet, April 30, 1969; Source of Funds, Restricted for Scholarships and Grants, April 30, 1969; Agency Funds, Source of Funds, April 30, 1969; Summary of Budget Appropriations and Disbursements, April 30, 1969; Budget Summary for Open End 1962 Bond Issue, April 30, 1969; Budget Summary of 1966 Bond Issue, April 30, 1969; Budget Summary for Mines Park Addition and CSM Houses No. 1, April 30, 1969; Budget Summary for State Rental Properties, April 30, 1969; Budget Summary for CSM Athletic Association; Budget Summary of Health and Accident, April 30, 1969; Budget Summary - Associated Students of the Colorado School of Mines, April 30, 1969; Budget Summary, Office of Research Services, April 30, 1969; and the Summary of Budget, Computing Center, April 30, 1969.

May 9, 1969

Budgets for 1969-70. Mr. Steinhauer presented the following budgets:

Operating Budget for CSM in the amount of \$4,199,431.

Athletic Association budget in the amount of \$10,370.45.

Associated Students budget in the amount of \$2,619.

State Rental Property (CSM Houses #2 and Girls' Residence Hall) in the amount of \$18,899.

Health and Accident Plan in the amount of \$100,431.

Office of Research Services in the amount of \$135,857.

Operating Budget for the 1962 Bond Issue in the amount of \$433,500.

Operating Budget for the 1966 Bond Issue in the amount of \$55,210.

Operating Budget for the Mines Park Addition and CSM Houses #1 in the amount of \$12,470.

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

Fraternity Finances. President Childs again brought up the subject of the difficulty facing fraternities in collecting debts against present and former students. The Alumni Interfraternity Council was asking the help of the School in getting the debtors to sign notes for money owed. ✓

It was moved, seconded, and unanimously passed that the following policy be adopted: Any student who leaves School indebted to the School or to any affiliated agency, including clubs, honorary and social fraternities, and who does not make satisfactory arrangements for the repayment of such indebtedness will not receive a transcript.

Interfraternity Constitution and Bylaws. President Childs reported to the Board that the Interfraternity Council had prepared a new constitution and set of bylaws. Among other matters covered was a provision for the serving of beer in the fraternity houses. ✓

The Board did not deem it its duty to approve or disapprove the constitution and bylaws. The Board was willing to consider a possible change in the ruling with regard to the serving of beer in the fraternities, providing all laws were observed, and after the IFC constitution is approved by the administration.

Contract - Electrical Distribution System. Mr. Steinhauer presented a contract covering the agreement between the CSM and the Howard Electric Company for construction of the first phase of the improvements to the electrical distribution system. ✓

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

Graduate and Professional Center. Upon motion made, seconded, and unanimously passed, the Graduate and Professional Center was named the Cecil H. and Ida Green Graduate and Professional Center. It was felt this would be an appropriate recognition of Dr. and Mrs. Green's generous contributions to education at the Colorado School of Mines. ✓

Student Conduct - "Specific Policies and Regulations." President Childs distributed copies of the Student Conduct Committee's report on "Specific Policies and Regulations." This report has been approved by the Committee and accepted by the Student Affairs Committee and the Student Council. After the Board approves this statement, it will be included in a brochure to be made available to all students. This brochure will cover all rules for conduct in and use of all school-related facilities.

July Meeting. The meeting date for the month of July was established as July 25, 1969.

The meeting adjourned at 2:30 p.m.

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Secretary