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NOT APPROVED

RECORD OF PROCEEDINGS

Golden, Colorado
January 9, 1976

The Board of Trustees met in regular session at 9:00 a.m., January 9, 1976, in the Board Room of the Colorado School of Mines.

Present: Messrs. Coors, Fogarty, Grynberg, Maytag, Parrish, and Stockmar.

Absent: Messrs. Bradley and Eisenach.

President McBride, Vice Presidents Scott and Welles, Deans Copeland and Culver, and Dr. Alter attended the meeting, as did a representative of the press and Student Body President Jim Daniel. Dr. Geraldine Bean, CU Regent who is on an American Council on Education Internship at CSM, attended the meeting.

Mr. Grynberg chaired the meeting.

Oaths of Office. The oath of office was administered to Mr. (John) Robert Maytag and to Mr. Conrad Parrish. Mr. Maytag was sworn in as an interim appointee in replacement of Mr. John A. Reeves who resigned on December 29, 1975. It has been announced that Mr. Maytag's permanent appointment will be sent to the Senate at the Governor's early opportunity. Mr. Parrish was sworn in as the elected representative of the student body in fulfillment of S.B. 1232, which became effective January 1, 1976.

Mr. Parrish took the opportunity to report to the Board that the student chapters of the Society of Mining Engineers (AIME) and the American Society of Metals have both won Outstanding Student Chapter awards. The Board congratulated Mr. Parrish on these honors won by the students.

Previous Minutes. The minutes of the meeting held on December 13, 1975 were approved.

Monthly Financial Reports. Mr. Scott made available the monthly financial reports.

Utilities. Mr. Grynberg inquired into the possibility of using the Coors Company natural gas lines to furnish the School with gas through an interchange system. Mr. Grynberg thought he might be able to get a supplier who would be willing to furnish the gas at low, or zero, cost. Mr. Stockmar was asked to explore the possibility of Coors transporting the natural gas after Mr. Coors said they had the capacity and will be willing to do this, providing it does not conflict with Public Utilities Commission regulations.

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1975-76 Supplemental Budget. Mr. Scott reported there is nothing new on this.

1976-77 Budget. President McBride reported that the Governor has established a Budget Review Group. We have been scheduled for a hearing before this group on January 14, 1976, from 11:30 to 11:50 a.m. Topics for discussion at this 20-minute hearing will be FTE enrollment, faculty compensation, student-faculty ratio, and tuition. These topics have been suggested by the agency formerly called the Executive Budget Office, now named the Office of State Planning and Budgeting.

In our long-announced and planned total enrollment goal of 3,000 by 1980, we are ahead of schedule. The CCHE has approved an enrollment for 1976 of 2,600. The Governor's office is recommending that this be reduced to 2,474. Enrollment at some other state colleges and universities has been "capped" for several years, and it is now proposed that enrollments at the CU School of Medicine and CSM be capped as of Fall, 1976. Dean Culver said that such a restriction will definitely have an adverse effect on our transfer program, which has grown into a good program of accepting high quality transfer students.

The faculty-student ratio is now 15.5:1 and the Governor's Office proposed that it be 16.25:1. All schools with enrollment over 2,000 are being asked to increase their faculty-student ratio five percent. President McBride stated that for an engineering school, our faculty-student ratio is already too high; it should be 12:1 or 13:1 for engineering faculty and about 14.5 overall.

On faculty compensation, we will be limited to hiring new faculty at Instructors' salaries only. We, of course, cannot hire professionals at that salary level.

The tuition situation is not satisfactory from our standpoint. The Governor wants to increase tuition income statewide by 25 percent. It is proposed that at CSM residents pay \$590, up from \$531, a 12.2 percent increase; nonresidents pay \$2,504, up from \$2,123, an 18 percent increase. The figure of \$2,504 includes a surcharge of six percent on nonresident students to cover use of facilities built and maintained by tax funds at Colorado colleges and universities.

Faculty compensation, under the Governor's plan, will be limited to a five percent increase statewide.

Mr. Maytag suggested, and President McBride agreed that it will be done, that briefs be filed and made available to those attending the hearing, especially in view of the short time being allotted to us.

Assistant Secretary

The meeting adjourned at 11:00 a.m.
July Meeting Dates. The dates for the annual July meeting away from the campus were established as July 9-10-11, 1976. The place is to be decided.

USGS Building. President McBride asked the members of the Board to be considering possible names for the new building being built on campus to house, for a specified time, the USGS.

After some discussion and suggestions, President McBride was given the task of selecting individuals who will represent the School at the hearing. Chairmen of Subsequent Meetings. Mr. Stockmar, commenting on the successful rotation of Board chairmen, suggested that President McBride chair the February meeting, thus providing a variation from Trustee chairing and allowing Mr. Maytag and Mr. Parrish more time to acquaint themselves with School matters. The suggestion was approved.

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RECORD OF PROCEEDINGS

Golden, Colorado
February 13, 1976

The Board of Trustees met in regular session at 9:00 a.m., February 13, 1976, in the Board Room of the Colorado School of Mines.

Present: Messrs. Bradley, Coors, Eisenach, Fogarty, Grynberg, Maytag, Parrish, and Stockmar.

President McBride, Vice Presidents Gary, Scott, and Welles, Deans Copeland and Culver, Dr. Alter, Mr. Nick Floros, representative of the Golden Transcript, and Student Body President Jim Daniel attended the meeting.

The meeting was chaired by Dr. McBride.

Mr. Stockmar announced that Mr. Robert Maytag's appointment had been unanimously recommended to be approved by the Senate Education Committee the previous day. ✓

Previous Minutes. The minutes of the meeting held on January 9, 1976 were approved.

Faculty Appointments. Dr. Gary reported on appointments listed below, which are mostly adjustments consequent upon the second semester enrollment, i.e. adjunct appointments made at the beginning of the academic year, subject to sufficient enrollment in the courses, are being extended.

James R. Aggson	\$1,500
Adjunct Assistant Professor of Mining Engineering (second semester)	
Debra Carnell	6,000
Instructor in Basic Engineering (second semester)	
John B. Hayes	1,500
Adjunct Professor of Geology (second semester)	
William D. Lansdown	8,000
Adjunct Associate Professor of Basic Engineering (second semester)	
Frank Lawson	13,000
Kroll Visiting Associate Professor of Metallurgical Engineering, 9-1-76 to 5-31-77	
Earl K. Madsen	2,500
Adjunct Associate Professor of Mineral Economics (1975-76 academic year)	
J. B. Morse	no compensation
Adjunct Associate Professor of Physics (second semester)	

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John G. Reid	\$1,800
Adjunct Assistant Professor of Metallurgical Engineering (second semester)	
Harold V. Romero	6,750
Visiting Instructor in Physics (second semester)	
William A. Skelly	2,750
Part-time Instructor in Basic Engineering (second semester)	
Dexter Strawther	4,000
Adjunct Assistant Professor of Mathematics (second semester)	
David G. Wirth	
Second semester portion of appointment as Adjunct Associate Professor of Metallurgical Engineering cancelled due to insufficient enrollment	
Thomas R. Young	1,200
Adjunct Assistant Professor of Mining Engineering (second semester)	

Promotion. Dr. Gary said an extensive search had been conducted to find a new department head for the Department of Chemistry and Geochemistry. Dr. John Williams, presently acting head, has requested that he not be considered for permanent department head. Several candidates had been brought to the campus for interviews. After much consideration and consultation with staff, it was concluded that CSM Associate Professor George H. Kennedy was the most qualified of the candidates, and with the approval of the Board, the position will be offered to him, effective February 15, 1976.

The Board approved the selection.

Monthly Financial Statements. Mr. Scott had made available copies of the monthly financial reports and said the School is operating within the accepted financial plan.

CSM Board Representation on CSMF. Mr. Stockmar reported that in conformance with the bylaws of the CSM Foundation, he had asked Mr. Maytag to represent the CSM Board on the CSM Foundation Board and that Mr. Maytag had accepted the invitation. The Board recognized the appointment.

General State Audit, 1974. Mr. Scott reported on the receipt of the general audit for the State for the fiscal year 1974. He reported that as a part of the audit report there had been included a long-range plan for the

Division of Accounts and Control. This, as far as we know, is the first public release of the plan which recommends one state accounting office for all state agencies. Each agency, under the proposed plan, will have computer terminal equipment into which will be fed information to enable all accounting personnel and all control to be located in the state capitol complex. The possible implications are of sufficient importance to warrant consideration, and the Board members asked that a copy of the long-range plan be made available to them before the next Board meeting. It was also asked that the item be placed on the agenda for the next meeting. ✓

U.S.G.S. Building. Mr. Scott reported that the final plans and specifications have been approved by the Department of Public Works. He said we are now ready to ask for bids.

Mr. Bradley asked if consideration had been given to the construction management concept, saying that it is a generally recognized method which is accepted by the State and which we may want to consider. President McBride replied this has been discussed very carefully with the architect who is willing to use the method but has recommended that we use the more traditional bidding system. The architect has said that under the traditional bidding system the design of the building will be built into it as needs and wishes are evolved and all before the building is completed. However, Dr. McBride said it is not too late to use the construction management way of building the structure.

Concern was expressed by all that quality be maintained and ways of insuring high quality were discussed. Mr. Scott said he and the architect will strive to keep the bidders restricted as one way of insuring high quality work and also try to preserve the right not to take the lowest bid. The employment of a clerk of the works or some qualified person who will be responsible on a day-to-day basis was approved.

With these qualifications and suggestions, the following resolution was adopted:

WHEREAS the Colorado School of Mines Board of Trustees previously authorized the planning of an office laboratory building to house elements of the United States Geological Survey; and

WHEREAS the plans through the Construction Documents Phase for that building have been submitted to this Board and the State Buildings Division for approval; and

WHEREAS approval of the Construction Documents Phase by the State Buildings Division has been given; and

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WHEREAS it is considered desirable by this Board that the project be advertised for either firm price turnkey or construction management bids or both and these bids be taken at the earliest time consistent with requirements and sound practice: Therefore be it

RESOLVED, That the plans through the Construction Documents Phase, with modification and addendum, hereby be approved by the Board; and further be it

RESOLVED, That this Board hereby approves the advertisement of the building for bids in accordance with the usual practices of the State of Colorado.

Enrollment, 1976-77. President McBride reviewed the situation for the Board. Our budget is based on a figure of 2,609 FTE, or 2,379 headcount. When we appeared before the Governor's Budget Review Group we were responding to a proposal to limit the enrollment to a 2,474 FTE. Under budget pressure from the JBC, CCHE has suggested that enrollment be limited to present FTE. We had originally planned to admit 490 freshmen. If we are restricted to a total enrollment of 2,322, we think we can take in only approximately one-half of what we intended to accept. ✓

President McBride said that at the urging of the JBC we have started on an upward enrollment pattern but now we do not know what we are going to do about enrollment. For the present we have suspended all admissions; we have already admitted 442 new students. The standard ratio of enrollment versus admissions is two-thirds.

Physical Education and Athletics Program. Professor Fritz Brennecke entered the meeting to review the program at the request of the Board and administration. Professor Brennecke, who is retiring at the end of the present academic year, had prepared a history of the program and department since the founding of the School. The report was complete with details and statistics. ✓

The Board expressed a great deal of interest in and appreciation for the report and thanked Professor Brennecke for his work and presentation.

In view of the time available at this meeting, the discussion was deferred until the March meeting.

The meeting adjourned at 12:00 noon.

Secretary

February 13, 1976

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RECORD OF PROCEEDINGS

Golden, Colorado
March 12, 1976

The Board of Trustees met in regular session at 9:00 a.m., March 12, 1976, in the Board Room of the Colorado School of Mines.

Present: Messrs. Bradley, Coors, Fogarty, Gynberg, Maytag, Parrish, and Stockmar.

Absent: Mr. Eisenach.

President McBride, Vice Presidents Gary, Scott, and Welles, Dean Culver, Dr. Alter and Mr. Nick Floros, representative of the Golden Transcript, attended the meeting.

The meeting was chaired by Mr. Maytag.

Previous Minutes. The minutes of the meeting held on February 13, 1976 were approved with minor corrections.

Faculty Appointments. Dr. Gary reviewed new appointments and the vacancy situation as follows:

Cvetko Nikolic	\$ 900
Adjunct Assistant Professor of Metallurgical Engineering (second semester)	
William G. Sherwood	900
Adjunct Assistant Professor of Metallurgical Engineering (second semester)	
Charles Murphy	1,000
Part-time Instructor in Chemical and Petroleum Refining Engineering (second semester)	

Three vacancies in Mining Engineering; one in Metallurgical Engineering; and one in Chemistry and Geochemistry.

Monthly Financial Statements. Mr. Scott, having made available to the Board members copies of the monthly statements, said the School is operating within the current financial plan.

"Long-Range Plan" - Division of Accounts and Control. With regard to the central state control of expenditures discussed at the February meeting, President McBride said there has been, to his knowledge, no action taken to implement the plan. The plan had been distributed only as a part of the general state audit report.

March 12, 1976

The general conclusion was first to determine where we are from a legal standpoint and then to attempt to get together with other boards of control of state institutions of higher education to determine what action should be taken. Mr. Bradley and Mr. Stockmar agreed that there should be some legal research done to determine the statutory basis, if any, for such a change. President McBride reported that he knew other presidents were concerned about the loss of effective management, or fiscal control. Mr. Maytag said with such unanimity we should make a concerted effort to work for an effective solution. ✓

Mr. Grynberg entered the meeting at this time.

1976-77 Long Bill. Mr. Scott distributed a breakdown of a preliminary set of recommendations from the JBC on the long bill. It sets forth figures which are certainly far below the requested amount, \$7,812,000 versus \$10,757,000. The total is not as unfavorable as we had feared, based on predictions.

President McBride said he would have prepared a detailed summary of the long bill as presently drawn and copies will be mailed to the Board members.

New Director of Alumni Association. Mr. George Mitchell, the new Alumni Association Director, entered the meeting and President McBride interrupted the regular order of business to introduce him to the members of the Board. ✓

Mr. Maytag, speaking on behalf of the Board, wished Mr. Mitchell well and told him the Board will look forward to working with him.

U.S.G.S. Building. Mr. Scott reported that the plans are out for bid and funding seems to be in hand, providing the bids come in near the estimated price.

Mr. Coors reported on a meeting, in which he took part, to explore the possibility of the construction management concept. The conclusion of the conferees was that the concept will not be feasible for this building. For one thing, planning is too far along to make it practical for the USGS building. If used, it should be chosen and embarked upon before the building is designed and coordinated with construction dollars. Also with the construction management program, whole buildings cannot be put out for bid but must be on fixed fee basis for the management (chosen by a bidding procedure) followed by competitive bidding for various sub-contracts. ✓

Enrollment. Dr. Gary reported on the enrollment figures as of this date. He reported that 620 new students have been accepted and that, based upon historic show/no show ratios, we are within 50 students of filling the freshman class. Of the students accepted, 75 percent are residents and 25 percent are nonresidents.

Discussion followed on admission procedures. The present practice is to judge each application, as received, on its own merits and either accept or reject, according to established standards for admissions. The question was asked if, with limited space and increased applications, we should make an effort to take the most highly qualified applicants even if nonresident.

Upon motion made, seconded, and passed, it was agreed not to discriminate in favor of either resident or nonresident applicants but to continue present practice.

Academic Leaves. Dr. Gary reported on two requests from faculty members in the Geology Department for academic leaves.

Professor Harold Bloom is requesting leave with one-half pay for the fall semester of the 1976-77 academic year. Professor Bloom plans to spend time visiting laboratories and institutions which do geochemistry work and feels he and CSM will benefit from such exposure.

Dr. Richard H. DeVoto is requesting leave with one-half pay for the entire academic year, 1976-77, to allow his participation in uranium exploration procedures and time to complete technical papers. He also will supervise graduate students in research on uranium detection methods.

Dr. Gary recommended the approval of both requests.

Upon motion made, seconded, and passed, the leaves were approved.

Distinguished Achievement Medals. In the absence of Mr. Eisenach, Chairman of the Committee, Dr. Fogarty reviewed the work of the Committee. He made available copies of the list of recommendations. After a discussion of the recommendations of the Committee, the Board voted to award Medals to the following:

Robert S. Brummett, E.M. 1926
Jack J. Grynberg, P.R.E. 1952; P.E. 1959
S. Norman Domenico, Geol.E. 1948;
D.Sc. 1951
Duane O. Nelson, P.E. 1951
John L. Robison, E.M. 1931

Department of Physical Education and Athletics. Professor Brennecke continued his discussion, begun at the February meeting, of the department. One of the main problems, in Professor Brennecke's opinion, was that of membership in a conference. Of course, finances are the main problem underlying that and other areas of concern.

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Because of the magnitude of the problems and basic philosophy involved, there was not time to give sufficient attention to the departmental program and the matter was to be carried over to another meeting.

Before Professor Brennecke left the meeting, Mr. Maytag complimented him on the good job he had done preparing his report and thanked him for the effort expended. Mr. Maytag said all members of the Board wish Professor Brennecke the best and said he was certain they will continue to seek his counsel. ✓

President McBride reported on the work being done to secure a replacement for Professor Brennecke. He said that a large number of applications has been studied and that the selection has been narrowed to six, with on-campus interviews to begin March 16.

Environmental Engineering and Liberal Arts.
Mr. Maytag said this item was placed on the agenda at his request as a result of his confirmation hearing before the Senate Education Committee. He said, as he was sure all present were aware, the matter of the environment was very much on the minds of the general public and the legislature. He asked, "How are we addressing ourselves to these concerns which are going to be with us the rest of our lives?"

Also, Mr. Maytag thought it might be helpful to review very generally the type of students we are turning out, asking ourselves, "Are we turning out the type of student who is going out and function as a leader in the community and in his business?"

Professor Samuel Vandiver, who had entered the meeting, was introduced by President McBride.

Dr. Gary reviewed for the Board the criteria set up by our accrediting agency (Engineers' Council for Professional Development) for a humanities credit. The courses which teach effective writing and speaking techniques do not qualify under these criteria and thus a problem is posed in reconciling time available and courses required. Dr. Vandiver also called attention to the considerable obstacle of having to teach basics to entering freshmen because these basics have not been learned prior to entering college. This is a recognized nationwide concern. The question was asked Dr. Vandiver if consideration had been given to a qualifying examination in reading and writing as is given to all entering freshmen to determine their skills in math and chemistry. Dr. Vandiver said it is indeed being considered. ✓

A distribution was made of a list of courses which deal with environmental matters. Dr. Gary said a faculty committee has been working on an environmental engineering course and that the matter was to be

considered by the Curriculum Committee. The proposal at present is to establish a core course required of everyone. It is being recommended that the course be given first as an elective and, after evaluation, consideration be given to making it a required course.

Attention was called to the great number of governmental regulations now in effect and the shortage of persons qualified to deal with them. Regulatory agencies newly created to rule on environmental concerns are numerous, and often overlapping, and trained personnel are so scarce long delays result in requests being approved or disapproved. Should we consider at the July meeting or a later meeting establishment of an environmental engineering course and seek approval to grant a degree in such a course? Some thought the School should be in the forefront of such a new field. ✓

Proposed Mineral Policy Forum. Mr. Welles distributed a discussion outline of a Mineral Policy Forum. The proposal was to investigate the concept of setting up a platform which will be attractive to people who are trying to address some of the mineral policy problems of the day. Mr. Welles thinks it will be a great public service and might bring interest in our campus and broaden our perspectives. The program may lead to great benefit to the School and prove helpful to us with donors. ✓

Upon motion made, seconded, and approved, the general concept was approved and Mr. Welles was authorized to move forward with such plans.

Student Death. President McBride informed the Board of the accidental death of graduate student, Oritseweyinmi A. Atse, on March 11, 1976 due to the accidental inhalation of hydrogen sulfide in a research laboratory in Alderson Hall. The Board was further informed that since the accident both safety equipment and safety practice had been reviewed to the end of decreasing the probability of future accidents of this kind. ✓

The Board expressed its sincere regret at the unfortunate incident and directed the President to communicate to Mr. Atse's family and to appropriate Nigerian government personnel its sincere regrets and condolences.

The meeting adjourned at 12:45 p.m.

Assistant Secretary

RECORD OF PROCEEDINGS

Golden, Colorado
April 7, 1976

In substitution of the regular April 1976 meeting, the Board of Trustees met on April 7, 1976 at 9:00 a.m., in the Board Room of the Colorado School of Mines.

Present: Messrs. Bradley, Coors, Fogarty, Grynberg, Maytag, and Parrish.

Absent: Messrs. Eisenach and Stockmar.

President McBride, Vice Presidents Gary, Scott, and Welles, Deans Copeland and Culver, Dr. Alter, and Mrs. Mary Grady, a representative of the Golden Transcript, attended the meeting.

The meeting was chaired by Mr. Parrish.

President McBride announced that Mr. Parrish had been re-elected by the student body for a full school year term by a 61 percent majority. Other members of the Board expressed their pleasure and extended congratulations to Mr. Parrish.

Previous Minutes. The minutes of the meeting held on March 12, 1976 were approved as amended.

Faculty Appointments. Dr. Gary reviewed a faculty appointment as follows:

Douglas W. Waples	\$14,000
Assistant Professor of Chemistry and Geochemistry, 1976-77 academic year	

Dr. Gary reported that there were now two vacancies in Mining Engineering, one in Metallurgical Engineering, and one in Chemistry/Geochemistry.

Monthly Financial Statements. Mr. Scott made available copies of the monthly financial statements, stating that in his opinion the School is operating within the accepted financial plan of the School for this fiscal year.

Candidates for Degrees. Distribution was made of lists of candidates for degrees as recommended by the graduate and regular faculties at the meetings held on March 31 and March 17, 1976 respectively, and in addition some names of undergraduates which will be brought to the faculty on April 14 for approval.

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

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May 7, 1976

BACHELOR OF SCIENCE (MINING ENGINEERING)

Baer, Dana Jay
Dyer, Desty Dale
Daniel, James Preston
Fenwick, Dale Lee
Gibson, William Dennis
Graham, James Robert
Grewcock, Bruce Eric
Handford, Robert Warren
Kramer, Norman Eugene
Mack, John W.
Maddocks, Clifford Allen

Munyan, Leon John
Palm, Terry Arthur
Rohde, Edward Charles
Sankey, Charles James Greig
Sykes, Raymond Glen Jr.
Smart, James Scott
Thompson, Ronald Dean
Vera, Samuel Isaac
Waite, John Lowell
Walton, James Donald
Walsh, James Francis
Willard, Russell B.

ENGINEER OF MINES

Baumann, William F.
Hannan, James Henry
McColm, Matthew Rowland

BACHELOR OF SCIENCE (METALLURGICAL ENGINEERING)

Arndt, Charley Raymond
Brinkman, Ronald Lynn
Edler, James Patrick
Engelhard, William John
Faoro, Anthony Angelo
Gasser, Steven Robert
Henke, Bruce Walton
James, Stephen Edward
Janzen, Howard E.
King, Darwin Dean
Klink, Dale Robert

Manion, Jeffery John
Martinez, Michael Stephen
Montague, Steven Merton
Perko, Charles Joseph III
Reser, Gary Neal
Ries, Michael David
Rowlett, Don Carlin
Schiller, Thomas L.
Slack, Kenneth M.
VanderVeer, George Chester III
Wetlaufer, Fredrick George
Wilson, Richard Paul Jr.

BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

Adnan, Marjorie Janine
Brown, Neil Alan
Clisham, Tom J.
Dorsey, Nancy Sue
Drapela, David Allen
Enders, Merritt Stephen
Evans, Terry Parker
Gaiffe, Gary Kevin
Galloway, Gary Lee
Garrabrant, Duane William
Goodhard, William Benjamin
Hanou, Michiel Jack
Kellcher, Gregory T.
Knight, James Robert

McKeown, Kevin Michael
Portigal, Michael H.
Price, David Jess
Richardson, William Eddy
Rodgers, Kenneth Wayne
Schaffer, Jeffry Fred
Scherer, Lee Robert
Schock, James E.
Smith, Craig Whiting
Smith, Julie Helen
Tschabrum, Donald Bruce
Vorwerk, John Elton
Walston, Robert Owen
Wilson, Wayne Paul

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BACHELOR OF SCIENCE (PETROLEUM ENGINEERING)

Cleary, Michael Patrick	Lutke, Donald B.
Downey, Avis Arlene	Marsh, Timothy Irvin
Downey, Robert Anthony	Melvan, Joseph John
Fonay, Gary William	Miller, Michael Edward
Gillette, William L.	Mudrone, Michele Kathleen
Hays, Kathy Jo	St. Pierre, Rene Roger
Kaltenbacher, Kary Joseph	Saunders, Bruce A.
Le, Khoi Mac	Smith, Kim L.
	Vais, Michael Anthony

BACHELOR OF SCIENCE (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Babb, Michael Curtiss	Knepper, Daniel Garrett
Caldwell, Charles Douglas	Morgan-Voyce, John David
Crabtree, Scott James	Ness, Richard Carl
Ebert, Andrew Howard	Parker, Donald John
Elder, Bruce Wayne	Payne, Carol Jean
Gardner, Glenn Curtis	Rodriguez, Mark A.
Genova, John Vincent	Rohde, John Thomas III
Ingram, Gary Scott	Rudolph, Kent Alan
Jeffries, Douglas Lee	Sondergard, Steven Eric
	Thompson, Jeffery Wayne

BACHELOR OF SCIENCE (GEOPHYSICAL ENGINEERING)

Beal, Chrys Detmering	Moore, John Robert
Benson, Robert Dale	Nolen, James Patrick
Bernal, Carlos Antonio	O'Connor, Lawrence Stephen
Chlumsky, Frank Joseph, Jr.	Pepper, Randolph Eugene Frederick
Clark, John Charles, Jr.	Schafer, Fred Alvin
Costello, Robert Lawrence	Schurman, Dana Lee
German, John Luther	Sievers, Richard Alan
Harr, Cynthia Jane	Smith, Stuart McQueen
Lorimer, John Douglass	Stuart, David Frank
Mitchell, Stephen Paul	Thompson, Jeffrey Alan
	Vozar, Mark Steven

BACHELOR OF SCIENCE (MINERAL ENGINEERING--CHEMISTRY)

Cowling, Steven Wray
Criswell, James Allen
Schwab, Arthur Paul

BACHELOR OF SCIENCE (MINERAL ENGINEERING--MATHEMATICS)

Anderson, Paul Lennart	Ostby, Douglas Bryan
Coulter, Brett Ainsley	Peregoy, John James
Flynn, Edward Lee	Reed, James Delaney
Grunwald, Gary Kenneth	Rux, George Verlon
Herrman, Stephen John	Shiba, Gary Alan
Kite, Terry Lee	Sauls, Nancy
Lunsford, Mark Kevin	Taylor, Jimmy Bruce
Moore, John Robert	Turner, John

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BACHELOR OF SCIENCE (MINERAL ENGINEERING--PHYSICS)

Anderson, Scott Buckingham	Hurd, Alan James
DeMars, Thomas Vincent Jr.	Killian, Kendrick Lee
Harms, Gary Alan	McCuen, Mark Douglas
Hart, David Gordon	Morrone, Robert Anthony
Hudson, William Alan	Ransome, Ronald Dean
Hunter, Andrew Thompson	Reeves, James Jackson

BACHELOR OF SCIENCE (MINERAL ENGINEERING)

Nuccio, Robert Vincent
Peregoy, John James

June 18, 1976

BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

Roderick, Charles Hughes

BACHELOR OF SCIENCE (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Briggs, Gregory Lynn
DeCianne, Michael Mark
Newman, John Robert

BACHELOR OF SCIENCE (MINERAL ENGINEERING--CHEMISTRY)

Shurts, Russell Wayne

BACHELOR OF SCIENCE (MINERAL ENGINEERING--PHYSICS)

Bruno, Randal Lee

BACHELOR OF SCIENCE (MINERAL ENGINEERING)

Handford, Suzann Diane
Leslie, Owen Bruce

August 20, 1976

BACHELOR OF SCIENCE (MINING ENGINEERING)

Bilkiewicz, Edward Francis Jr.	Fuller, Jerry Lee
De Narvaez McAllister, Daniel	Hynes, Paul William
Extract, Andrew Wallace	Usery, Richard Ray

BACHELOR OF SCIENCE (METALLURGICAL ENGINEERING)

Stember, Jeffery Vance

BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

Fedec, Paula
Weston, Stephen Carter

BACHELOR OF SCIENCE (PETROLEUM ENGINEERING)

Binggeli, Vanessa Renee	Gordon, Kenneth Ralph
Buss, Norbert William	Smith, Richard Wayne
	Underhill, John Robert

April 7, 1976

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DOCTOR OF PHILOSOPHY (GEOPHYSICS)

Robert Alan Crewdson
Lawrence H. Kumamoto
Chieh-Hou-Yang

DOCTOR OF PHILOSOPHY (GEOCHEMISTRY)

Allan Robert Reid

DOCTOR OF PHILOSOPHY (MINERAL ECONOMICS)

George Salameh Dabai
David A. Gulley

Joe D. Megeath
Thomas H. Sheehan, Jr.
Jose Angel Vargas Montaña

Emeritus Rank. The policy for emeritus status previously established by the Board was reviewed with regard to faculty who will retire at the end of the 1975-76 academic year. Under the present policy, only Professor Fritz S. Brennecke of the retiring faculty members qualifies.

Upon motion made, seconded, and unanimously passed, the rank of Professor Emeritus was granted to Fritz S. Brennecke. ✓

The subject of an honorary degree for Professor Brennecke was mentioned. President McBride suggested the matter be considered very carefully because even though there has been substantial pressure in other similar cases the Board has declined to grant such honorary degrees. He said he would like to see the Board continue the policy of exercising great care in such cases because of the resulting effect. He said emeritus status is honorific and signifies both continued appreciation on the part of the Mines community and the desire on the part of the Board to have the person continue close association with the campus. ✓

Enrollment. Dean Culver made available the latest tabulation of applications for admissions. The listing showed a total of 1153 applications received so far this year; 693 have been accepted. Dean Culver said we shall have a maximum of 500 freshmen and we shall have at least 120 transfer students.

There was a discussion on the number of minority students enrolled and the possibility of actively recruiting American Indian students. The suggestion was made that the tribal councils in states surrounding Colorado be contacted in an effort to enroll qualified American Indians. Whether there is much interest in engineering among American Indians seemed to be a question. ✓

The suggestion was made that the staff who are responsible for this work propose a goal that is attainable, expend great effort on recruitment, and aim at the enrollment of one or more American Indians in the fall of 1977.

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1976-77 Budget. President McBride reviewed an analysis of the 1976-77 budget based on the appropriation as it now appears in the Long Bill, \$7,812,042. The Long Bill is now being discussed in the legislature and that figure is not final.

Library. Mr. Coors suggested that our library be made a major asset to the campus and that an outstanding library be made a major goal in our fund raising drive. He said historically libraries have strong appeal to donors.

U.S.G.S. Building. Mr. Scott reported that bids on the building had been opened March 23. He said the bids were very close and well within the maximum construction budget. The low bid was offered by Pinkard Construction Company in the amount of \$2,523,000. He reported that he will have a rating on the bonds within the week and this rate will in part determine the interest rate. He said the ground breaking will probably be the last week of April and the completion date July 1, 1977. ✓

Health and Life Insurance Carriers. President McBride reported that as a result of investigation by the faculty Personnel Committee and upon the recommendation of the faculty and Mr. Scott, he was asking the Board to approve a change in the carriers of the insurance plans under which the faculty are covered.

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

WHEREAS the faculty of the Colorado School of Mines has long been covered by medical, hospital, life, and long-term disability insurance, and the cost has been shared between the employee and the School; and

WHEREAS it is the expressed desire of the faculty of CSM to change to the coverages provided by the United Benefit Life Insurance Company and the Union Mutual Life Insurance Company, such coverage now being in effect at the schools governed by the Trustees of the State Colleges in Colorado and the Trustees of the University of Northern Colorado; and

WHEREAS the administration of the Colorado School of Mines has verified that these companies are in good standing with the Office of the Commissioner, Division of Insurance, and that the plan continues to enjoy the recommendation of the faculties and administrations of those schools presently so insured; and

WHEREAS the administration of the Colorado School of Mines recommends that the change in coverage and insurers requested by the faculty be made: Therefore be it

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RESOLVED that this Board of Trustees authorize the administration of the Colorado School of Mines to make all necessary arrangements for the enrollment of its faculty in the insurance plan offered by United Benefit Life Insurance Company and Union Mutual Life Insurance Company, effective June 1, 1976, and to discontinue the present coverage offered by Equitable Life Assurance Society of the United States, effective that same date. ✓

Affirmative Action Goals. President McBride made available a memorandum dated April 1, 1976 on our Affirmative Action goals prepared by Dr. Dale Foremen, CSM Affirmative Action Officer. He said the memorandum contains some changes to meet changed circumstances. He said he believed the goals to be reasonable, attainable, and desirable, and recommended acceptance by the Board.

There was a discussion of the goals and especially of the increasing number of women students, which would give rise to the desire and need for more women in such positions as counselor and athletic department staff member. ✓

The Board took cognizance of the goals as submitted and directed President McBride to proceed in achieving the best possible results in working toward them.

Colonel Richard Bernard, Professor of Military Science, entered the meeting at this time.

ROTC Programs and Requirements. Chairman Parrish said this item had been placed on the agenda at his request. He thought a review of the program and policy was timely especially in view of the increasing number of women students. As the policy now exists, ROTC is required of all freshman students with the exception of foreign students and women. Chairman Parrish said, based on his personal knowledge, the first year is an invaluable course for any engineer and would benefit all students.

Colonel Bernard reviewed the program and answered questions from the Board. He said the Military Department has revised the curriculum for the first two years and has made a major effort to make the courses more general. He said the Military no longer issues uniforms to the first-year student.

The question was raised: Is it desirable to consider a change in the policy to require all students, except foreign students, to take ROTC the first year? A corollary question: Would this have an adverse effect on the enrollment of women students?

Colonel Bernard gave the fall, 1975, enrollment figures as freshmen 408, sophomores 73, juniors 9, seniors 16. Of the 73 enrolled in the second-year class, seven are on scholarships given by the Military.

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President McBride said he was not asking for specific changes in the existing program at this time but, as Chairman Parrish had said, the item was placed on the agenda for discussion and expressions of opinions. He said he is aware of the Board's desire to have the administration review the matter periodically and he said the administration will continue to monitor the program and recommend changes, if deemed desirable.

Colonel Bernard left the meeting.

Physical Education and Athletics. Chairman Parrish said this item also had been placed on the agenda at his request and with the concurrence of President McBride who wanted to bring the Board up-to-date on the status of a new Athletic Director.

President McBride first reported on the Athletic Director position. He said approximately 115 applications have been received. He and Dr. Gary screened the applications down to six. These six had been interviewed on campus by President McBride, Dr. Gary, the Athletic Council, and each had visited extensively in the department with all members of the departmental staff. He said the final decision is now being made.

The general philosophy of the athletic program was discussed. It was agreed that the program is important. It is important to the student morale and it is important in that it upgrades physical fitness and carry-over skills and the Board expressed the hope that the program will continue to be the same valuable part of our curricula and spirit.

The meeting adjourned at 11:30 a.m.

Assistant Secretary

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RECORD OF PROCEEDINGS

Golden, Colorado
May 6, 1976

In substitution of the regular May 1976 meeting, the Board of Trustees met on May 6, 1976 at 2:00 p.m. at the Denver Club, Denver, Colorado.

Present: Messrs. Coors, Fogarty, Eisenach, Grynberg, Maytag, and Parrish.

Absent: Messrs. Bradley and Stockmar.

Trustee Emeritus Vanderwilt, President McBride, Vice Presidents Gary, Scott, and Welles, Deans Copeland and Culver, and Mrs. Marilyn Salzman of the Golden Transcript attended the meeting.

The meeting was chaired by President McBride.

Previous Minutes. The minutes of the meeting held on April 7, 1976 were approved.

Faculty Appointments. Dr. Gary reviewed the faculty appointments and vacancies as follows:

Robert D. Hamilton Part-time Instructor in Geology	\$6,000
Robert T. Reeder Associate Professor of Mining Engineering	20,000
James E. White Charles Henry Green Professor of Exploration Geophysics	29,000
Dennis Tenney Adjunct Assistant Professor of Computer Science, July 1 to December 11, 1976	9,000

Dr. Gary reported one vacancy in Mining Engineering and one in the Department of Chemistry and Geochemistry.

Athletic Director. President McBride distributed copies of a brief resume on R. Bruce Allison whom, after many discussions with administrative staff and faculty members and on-campus interviews, he is recommending as Athletic Director (Professor of Physical Education and Head of the Department of Physical Education and Athletics) at a salary of \$26,000 for a 10-month year.

The Board approved this appointment.

Faculty Promotions. Dr. Gary made available to the Board a list of faculty promotions as follows:

Arthur J. Kidnay
Professor of Chemical and Petroleum-Refining Engineering

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Harold Bloom
Professor of Geology

Billy J. Mitchell
Professor of Petroleum Engineering

Jerrold J. Burnett
Professor of Physics

Stephen R. Daniel
Associate Professor of Chemistry and Geochemistry

Samuel B. Romberger
Associate Professor of Geology

John A. Hogan
Associate Professor of Humanities and Social Sciences

Franklin D. Schowengerdt
Associate Professor of Physics

Phillip R. Romig, Jr.
Associate Professor of Geophysics

David K. Matlock
Associate Professor of Metallurgical Engineering

William R. Astle
Associate Professor of Mathematics

Monthly Financial Statements. Mr. Scott made available copies of the monthly financial statements, stating that in his opinion the School is operating within the accepted financial plan.

Enrollment. Dean Culver and President McBride reviewed the enrollment figures, mentioning the fact that the ratio of resident/nonresident students appears to be shifting. The percentage of nonresidents is now 71 vs. 29; for fall 1975 it was 67 vs. 33. This, of course, will adversely affect our tuition income. After some discussion the consensus was that our primary obligation is to accept qualified students within our limitations, regardless of residency. ✓

We are at the moment very close to our enrollment goals and now a primary problem seems as in prior years to be housing. Our housing officer estimates that there will be 125 to 140 accepted students who will not have housing. This in turn will probably result in a lower percentage of accepted applicants who actually enroll. Historically we have had a high percentage of students enroll who have been accepted. The administration is making concerted efforts to determine the number of students who will enroll next fall by requiring preregistration. Students presently enrolled but who have not preregistered have been told that they will be subject to the same space limitations as new students. Trustee Parrish asked if some provision ↙

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could be made for students who, sometimes of necessity, drop out of school voluntarily, intending to return. At the present, these returning students are treated pro forma as new students insofar as registration is concerned but are actually afforded registration priority. It was pointed out that any other procedure would present problems because some students fully intend to return but because of changed circumstances do not.

Trustee Maytag asked that a report be made by this fall on the School's efforts to enroll American Indian students. The administration agreed.

1976-77 Budget. Mr. Scott reported that the Long Bill is out of conference committee but is subject to amendments on the floor of the legislature. He said the library addition is still included in the bill but \$30,000 has been cut from that item, a matter of approximately 700 square feet.

Student Fees. Mr. Scott made available a tabulation of increases in tuition, fees, room and board charges, and housing rentals. He said there was a major change in the student health and accident fee in that for the past two years there has been an infirmity fee and Blue Cross and Blue Shield in addition. At this time there is no health insurance plan to offer but he believes that by fall registration he will have a plan available to the students.

The new ruling by the legislature of charging extra tuition for semester credit hours over 18 was discussed at some length. It was agreed that this practice would have the effect of penalizing our better students who want and are able to take more than 18 hours. Some options require more than 18 hours in some semesters to fulfill graduation requirements.

The question was asked if scholarship funds could be made available to assist the students thus penalized. Dr. Gary said he had made some calculations on such a program using as an estimate the cost of assisting students who have certain specific quality point averages. Assisting those who have a 2.5 GPA will cost \$20,000 and assisting those with a 3.0 GPA will cost approximately \$10,000, both figures assume the same number of credit hours taken as in 1975-76.

Such a program will not help the student who in his last year finds himself in the position of having to take an extra heavy load in order to graduate that year, even though his GPA would not qualify him for a scholarship under a criterion such as a high GPA. Dean Culver said that anyone taking over 19 hours (excluding advanced ROTC and athletics) has to have his approval so that it would be a relatively simple procedure to make individual judgments.

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The GPA cut-off was left to the administration, but the Board approved the general concept, stressing that such scholarships must be apart from the regular financial aid program set up to help worthy students in need of assistance.

The administration was asked to bring to the June meeting a definite plan for handling this particular problem.

Upon motion made, seconded, and passed, the tabulation of fees and charges presented by Mr. Scott was approved. The schedule follows:

TUITION AND FEES

<u>Student Load</u>	<u>Resident/Sem.</u>	<u>Nonresident/Sem.</u>
Sem/Hrs.		
23	\$390	\$1,545
22.5	380	1,506
22	370	1,467
21.5	360	1,428
21	350	1,389
20.5	340	1,350
20	330	1,311
19.5	320	1,272
19	310	1,233
18.5	300	1,194
9.5-18.0	290	1,155
8.5-9.0	261	1,044
7.5-8.0	232	928
6.5-7.0	203	812
5.5-6.0	174	696
4.5-5.0	145	580
3.5-4.0	116	464
0 - 3	87	348

Health & accident fee (infirmary services only) -		\$12.00 sem.
Associated Students -		10.50 sem.
Athletic -		15.00 sem.
Student Center -		20.00 sem.
Total		<u>\$57.50 sem.</u>

Summer Session Field Courses

Tuition, 6 weeks	\$174	Resident/Sem.
" " "	696	Nonresident/Sem.
Health & accident fee (infirmary only), on-campus -	\$4.50	
Student Center fee, on-campus	\$8.00	

Summer Session Academic Courses

Tuition, same as regular academic sem.		
Health and accident fee (infirmary only) -	\$6.00	
Student Center fee	-	\$9.50

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Intensive English Course

Tuition, 11 weeks -	\$1,155
Health and accident fee (infirmary only) -	\$10.00
Student Center fee -	\$9.50
Summer activity fee -	\$40.00

Graduate Sessions (Regular academic, summer academic, and summer field)

Tuition and fees are the same as for undergraduate students with the following exceptions:

Thesis Research - Summer

Tuition, minimum 3 sem/hrs. - tuition is the same as for 14 or 8 weeks.

Health and accident (infirmary only):

14 weeks - \$10.50

8 weeks - 6.00

Student Center fee, on-campus \$9.50

Thesis Fees

Master's degree - \$44.00

Ph.D. degree - 79.00

Graduation Fees

Bachelors - \$20

Professional Engineers - 45

Masters - 45

Doctors - 45

ROOM AND BOARD CHARGES

Bradford, Caldwell, Randall, Morgan, and Thomas Dormitories

Academic year

Double room	\$435
Board, 5 day 15 meal plan	660
	<u>1,095</u>

Double room	435
Board, 6 day 18 meal plan	700
	<u>1,135</u>

Single room & board	535
Board, 5 day 15 meal plan	660
	<u>1,195</u>

Single room	535
Board, 6 day 18 meal plan	700
	<u>1,235</u>

Dormitory Activity fee 6

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Field session

Double room	\$ 85
Single room	105

Summer session

Double room & board -	
5 day 15 meal plan	275
6 day 18 meal plan	285
Single room & board -	
5 day 15 meal plan	300
6 day 18 meal plan	310

RENTALS

Golden Ridge Apartments

Academic year

1 bdrm apt. 2 students	815
2 bdrm apt. 3 students	680
3 bdrm apt. 4 students	567.50

Prospector Village

Academic year

3 students per apt.	550
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Summer session

3 students per apt.	140
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Married student apts., monthly rate

1 bedroom	120
2 bedroom	135
3 bedroom	155
2 bedroom, furnished	165

Prospector Park

Monthly rate

1 bedroom	70
2 bedroom	85

Mines Park

Monthly rate

Buffet apt.	120	util.incl.
1 bdrm apt.	160	" "
2 bdrm apt.	180	" "
2 bdrm house (37, 38, 39)	205	util.incl.except water
2 bdrm house (25, 26, 27, 28)	225	" " " "
2 bdrm house (30, 31, 34, 35)	175	+ gas, elect. & water
3 bdrm house	195	+ " " "

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U.S.G.S. Building. Mr. Scott reported on the status of the project. He said the bonds have been sold at 8-7/8 percent contingent upon an IRS ruling that the rental income to the CSM Building Corporation is not taxable. We are also awaiting the preparation of a lease document from the GSA. He said we are now behind schedule in the construction time.

Plans for July Board Meeting. Mr. Welles distributed copies of the report "Academic and Facilities Planning for the Colorado School of Mines, 1976-85" which he said will be discussed at the July meeting. He distributed copies of a tentative agenda and copies of a suggested list of participants and special guests. Mr. Parrish suggested that the President of the Student Body be invited and Mr. Welles agreed that this was an important addition.

The Board approved the tentative list of those to be invited to participate but emphasized the importance of being completely candid with the special guests in regard to the purpose of the meeting.

Mr. Maytag asked that in connection with the bricks and mortar part of the development program advance work be done in the field of solar heating of these buildings in order that specific design desiderata can be furnished to donors and architects. ✓

Mr. Grynberg left the meeting at this time.

Development Plans and Fund Raising Campaign. Mr. Welles reported that at the CSM Foundation meeting the day before the CSMF board had approved a first-year budget of \$200,000 to underwrite this effort providing the entire project had the enthusiastic endorsement of the CSM Board of Trustees. The CSM Board went on record as being very much in favor of the entire program and expressed great hope that the goals expressed in our preliminary reports can be accomplished.

The first-year funding is to be made from the unrestricted capital of the CSM Foundation and represents approximately 14 percent of that capital. Such an invasion of the CSMF principal was considered a necessary step in the fund-raising program, but it is hoped the repayment of this obligation would be one of the first goals of the program. ✓

Mr. Welles asked that the "Planning and Feasibility Study" (two parts) dated April 1976 by the Brakeley & Company organization be made not confidential, subject to the approval of the CSM Foundation which financed the study. Approval was given. ✓

Mr. Welles explained the intention of setting up a Financial Resources Office, adjacent to the CSM Foundation office, staffed with a director and a research secretary and also the employment of three of the top personnel from Brakeley and Company to conduct the work. Mr. Welles showed with a diagram the organization which he has in mind for the fund raising program.

Secretary

The meeting adjourned at 4:30 p.m.
over to a later meeting.
University Autonomy. This agenda item was held

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RECORD OF PROCEEDINGS

Golden, Colorado
June 11, 1976

The Board of Trustees of the Colorado School of Mines met in regular session at 9:00 a.m., on June 11, 1976, in the Board Room of the Colorado School of Mines.

Present: Messrs. Coors, Fogarty, Grynberg, Maytag, Parrish, and Stockmar.

Absent: Messrs. Bradley and Eisenach.

Also attending the meeting were President McBride, Dr. Alter, Vice Presidents Gary, Scott, and Welles, Dean Copeland and Dr. Golden.

Mr. Stockmar presided.

Previous Minutes. The minutes of the meeting held on May 6, 1976 were approved.

Faculty Appointments. Dr. Gary listed the new appointments as follows:

William A. Averill	\$15,750
Assistant Professor of Metallurgical Engineering	
Robert S. Fisk	12,000
Visiting Assistant Professor of Mathematics	
Charles L. Murphy	5,500
Part-time Instructor in Chemical and Petroleum-Refining Engineering Department	

The appointments are all for the full 1976-77 academic year.

Mr. Maytag inquired generally as to the utilization of and recruitment and hiring to fill the new positions (24) authorized by the last legislature. Dr. Gary said these additions to the faculty were being positioned according to the work load of departments. Of the total, two-thirds to three-fourths are being hired on a permanent basis and the remainder are being employed on one-year appointments because it is not known at this time what the enrollment and the faculty-student ratio will be in succeeding years.

Mr. Maytag inquired specifically about the field of environmental sciences and the humanities. Are faculty being added in these areas?

Dr. Gary said the Humanities Department faculty, in comparison with other departments, do not have an excessive teaching schedule. The department is, however,

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developing new courses with the existing faculty in an attempt to give remedial assistance to students deficient in basics such as reading and writing. This new program is starting this fall. The structure of the department is being changed so there will be only one or two persons responsible for teaching freshmen, rather than many.

With regard to environmental sciences, Dr. Gary said the administration is looking for a person with industrial experience and a reputation as an unbiased individual who is respected by all factions. When such a person is found, it is envisioned that he will be able to call on persons in all departments for any particular expertise and thus direct a broad program.

Dr. Alter called attention to the fact that the state funding of these 24 new positions is the equivalent of the returns on a major endowment.

Monthly Financial Statements. Mr. Scott distributed the monthly financial statements and said the School is operating within the financial plan.

1976-77 Budget. Copies of the proposed budget summaries dated June 7, 1976 based on the new appropriation were made available. Mr. Scott reviewed them in some detail.

President McBride requested authorization from the Board to administer the funds appropriated to the Colorado School of Mines for 1976-77 fiscal year in a manner which would maximize their value to the School and best further the achievement of the goals established for the year, even if such administration required that deviations be made from the line items within the appropriation.

It was moved, seconded, and passed that the 1976-77 budget in the total amount of \$10,795,613 be approved with this authorization and direct.

Salary Schedules. Upon motion made, seconded, and passed, the following salary contracts were approved:

John F. Abel, Jr. Professor of Mining Engineering	\$22,880
Julia A. Alexander Assistant Professor of Humanities and Social Sciences	15,350
William R. Astle Associate Professor of Mathematics	19,160
Henry A. Babcock Professor and Head of Basic Engineering Department	28,770
Professor Charles R. Baer Assistant Professor of Mathematics	15,230

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Robert W. Baldwin Assistant Professor of Chemical and Petroleum- Refining Engineering	15,120
Geraldine D. Bariani Librarian	14,590
Daniel M. Bass Professor and Head of the Department of Petroleum Engineering	28,590
Geroge T. Bator Professor of Mining Engineering	24,940
Victor W. Bauman Associate Professor of Mathematics	18,140
Bisque, R. E. Adjunct Professor of Chemistry and Geochemistry	13,425
Harold Bloom Professor of Geology	20,750
Ardel J. Boes Associate Professor of Mathematics	20,290
Ralph B. Bowersox Professor and Head of Physics Department	26,680
Joan W. Brooks Assistant Professor of Civil Engineering	15,300
Austin R. Brown, Jr. Director of Computing Center and Professor of Mathematics	28,150
James T. Brown Associate Professor of Physics	19,000
W. R. Bull Associate Professor of Metallurgical Engineering	21,970
Jerrold J. Burnett Professor of Physics	20,690
David L. Butler Assistant Professor of Geophysics	17,690
Nicholas P. Callas Assistant Professor of Mathematics	17,240
Robert H. Carpenter Professor of Geology	23,810
W. John Cieslewicz Assistant Professor of Humanities and Social Sciences and Assistant Professor of Mineral Economics	15,890

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Bernetta Conrey Departmental Assistant	15,000
W. D. Copeland Dean of the Graduate School and Professor of Metallurgical Engineering	30,790
Catharine S. Cross Librarian	13,640
Richard S. Culver Dean of Students and Associate Professor of Basic Engineering	25,160
Stephen R. Daniel Associate Professor of Chemistry	16,990
James Darden Associate Professor of Physical Education & Athletics	19,820
Joseph E. Davies Professor of Physical Education and Athletics	19,820
Thomas L. Davis Visiting Assistant Professor of Geophysics	15,970
Richard H. DeVoto Associate Professor of Geology	20,320
Dean W. Dickerhoof Professor of Chemistry	20,540
Donald I. Dickinson Associate Professor of English	18,510
Philip F. Dickson Professor of Chemical and Petroleum-Refining Engineering and Head of Department	28,140
Allan Divis Assistant Professor of Geology	13,740
Sophronia Dyar School Nurse	12,425
Kenneth W. Edwards Associate Professor of Chemistry	15,630
Rudy C. Epis Professor of Geology	25,520
Elsie Christine Ericson Librarian	13,140
Robert R. Faddick Associate Professor of Basic Engineering	18,750

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Donald W. Fausett Assistant Professor of Mathematics	17,480
Carl A. Fawcett Director of Housing, Student Center, and Green Center	19,800
L. David Femmer Budget Officer and Personnel Officer	24,300
Joseph J. Finney Professor and Head of the Geology Department	26,440
Dale Foreman Associate Professor of Basic Engineering and Affirmative Action Officer	20,200
Charles O. Frush Associate Professor of Mining Engineering	17,630
James H. Gary Vice President for Academic Affairs and Professor of Chemical and Petroleum- Refining Engineering	41,000
Richard D. Gauthier Associate Professor of Basic Engineering	19,940
Donald W. Gentry Associate Professor of Mining Engineering	21,740
John O. Golden Professor of Chemical and Petroleum- Refining Engineering and Director of Research Development	32,250
L. T. Grose Professor of Geology	25,130
Stanley M. Guralnick Assistant Professor of Humanities and Social Sciences	15,640
Raymond R. Gutzman Associate Professor of Mathematics	18,510
Frank A. Hadsell Professor of Geophysics	24,930
J. P. Hager Professor of Metallurgical Engineering	26,660
David W. Hall Associate Professor of Chemistry	16,330
John W. Hancock Associate Professor of Physical Education and Athletics	18,180

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Peter E. Hartley Assistant Professor of Humanities and Social Sciences	15,960
John D. Haun Professor of Geology	26,050
Virginia Wilcox Herold Head Librarian	22,510
Douglas W. Hilchie Associate Professor of Petroleum Engineering	21,760
Carl L. Hiltrop Associate Professor of Chemistry	15,140
Anthony L. Hines Assistant Professor of Chemical and Petroleum-Refining Engineering	18,290
John A. Hogan Associate Professor of English	17,390
Ralph G. Holmer Professor of Geophysics	25,970
Joan R. Hundhausen Assistant Professor of Mathematics	14,700
Robert M. Hutchinson Professor of Geology	20,670
Leonard L. Johnson Business Services Officer	17,000
Thys B. Johnson Professor and Head of Department of Mining Engineering	27,390
James G. Johnstone Professor of Basic Engineering	24,460
Leonard A. Kalal Associate Professor of Philosophy	17,990
Marvin L. Kay Assistant Professor of Physical Education and Athletics and Head Football Coach	16,920
George V. Keller Professor and Head of Department of Geophysics	31,240
George H. Kennedy Associate Professor and Head of the Chemistry and Geochemistry Department	21,440
Harry C. Kent Professor of Geology	27,230

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Arthur J. Kidnay Professor of Chemical and Petroleum- Refining Engineering	22,140
John V. Kline Professor of Physics	21,440
Ronald W. Klusman Associate Professor of Chemistry	21,320
Charles A. Kohlhaas Associate Professor of Petroleum Engineering	21,410
John O. Kork Assistant Professor of Mathematics	16,650
George Krauss AMAX Foundation Professor of Physical Metallurgy	26,240
William A. Law Associate Professor of Physics	18,840
William E. Leckie Director of Continuing Education and Assistant to the Vice President for Academic Affairs	21,350
Keenan Lee Associate Professor of Geology	19,360
Fred R. Leffler Associate Professor of Electrical Engineering	18,820
Jack D. Lubahn Professor of Basic Engineering	21,070
George B. Lucas Professor of Chemistry	25,200
George Lynn Adjunct Professor as Conductor of the Glee Club	3,000
Earl K. Madsen Adjunct Associate Professor of Mineral Economics	2,700
Maurice Major Professor of Geophysics	27,760
Donald C. B. Marsh Professor of Mathematics	19,660
Scott J. Marshall Assistant Professor of Basic Engineering	20,780
James W. Martin Associate Professor of Basic Engineering	22,180

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Gerard P. Martins Associate Professor of Metallurgical Engineering	20,790
Warren J. Mason Registrar and Financial Aid Officer	17,950
Jean P. Mather Professor and Head of Mineral Economics Department	28,770
Frank Mathews Professor of Physics	21,440
David K. Matlock Associate Professor of Metallurgical Engineering	19,350
William A. Mattingly Assistant Professor of English	13,280
R. W. McAllister Associate Professor of Physics	20,950
Robert S. McCandless Assistant Professor of Physical Education and Athletics	15,180
Michael B. McGrath Chief Consultant, Computing Center and Assistant Professor of Basic Engineering	20,600
C. Samuel Miller Associate Professor of Basic Engineering	18,120
B. J. Mitchell Professor of Petroleum Engineering	22,040
Fred E. Moore Professor of Geology	22,740
Charles S. Morris Director of Public Relations	19,500
Raymond K. Mueller Assistant Professor of Mathematics	18,600
William M. Mueller Professor and Head of Metallurgical Engineering Department	29,290
Karl R. Nelson Assistant Professor of Basic Engineering	16,020
Karl R. Newman Associate Professor of Geology	21,140
David L. Olson Associate Professor of Metallurgical Engineering	20,670

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Robert T. Pearson Assistant Professor of Physical Education and Business Manager of the Athletic Department	16,310
Anton G. Pegis Professor of Humanities and Social Sciences	23,220
Gerald A. Peters Coordinator for Public Information	14,000
Harry C. Peterson Professor of Basic Engineering	22,550
Alfred Petrick, Jr. Coulter Professor of Mineral Economics	28,070
Thomas Philipose Assistant Professor of Humanities and Social Sciences	14,480
George R. Pickett Professor of Geophysics	24,350
Herman Ponder Professor of Geology	no compensation
Jon W. Raese Director of Publications	16,400
Donald S. Roberts, M.D. School Physician and Head of Medical Department	12,400
Samuel B. Romberger Associate Professor of Geology	19,090
Phillip R. Romig Associate Professor of Geophysics	18,370
Oded Rudawsky Associate Professor of Mineral Economics	19,580
Arthur Y. Sakakura Associate Professor of Physics	20,300
David W. Satterley Data Processing Officer	22,500
A. W. Schlechten Professor of Metallurgy and Director of the W. J. Kroll Institute for Extractive Metallurgy	30,050
Franklin D. Schowengerdt Associate Professor of Physics and Assistant Department Head	17,480
William Gordon Scott Vice President for Business Affairs	32,500

RECORD OF PROCEEDINGS

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George T. Sisson Laboratory Assistant in Chemistry	14,070
Maynard Slaughter Professor of Chemistry	22,670
E. Dendy Sloan, Jr. Assistant Professor of Chemical and Petroleum-Refining Engineering	15,640
Margaret Smart Librarian	16,630
D. T. Snow Associate Professor of Geology	19,730
Gregory K. Staff Admissions Counselor	14,050
Richard E. Stapp, Jr. Associate Professor of Physical Education and Athletics	16,680
Charles W. Starks Assistant Professor of Chemistry	16,440
Franklin J. Stermole Professor of Chemical and Petroleum- Refining Engineering	23,090
Huntington S. Swanson Associate Professor of Mineral Economics	19,720
Robert J. Taylor Assistant Professor of Basic Engineering	17,880
Suzanne Tharp Librarian	10,970
David W. Trexler Associate Professor of Geology	20,060
A. Keith Turner Associate Professor of Geology	18,340
Samuel E. Vandiver Professor and Head of the Humanities and Social Sciences Department	24,790
Robert A. Walsh Professor and Head of the Department of Mathematics	24,200
Fun-Den Wang Professor of Mining Engineering	22,520
Robert J. Weimer Professor of Geology	26,030

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John G. Welles Vice President for Institutional Planning and Development	40,000
Walter W. Whitman Professor of Mathematics	24,180
John T. Williams Professor of Chemistry	25,320
Don L. Williamson Assistant Professor of Physics	14,320
Thomas R. Wildeman Associate Professor of Chemistry	18,970
R. D. Witters Associate Professor of Chemistry	18,740
Robert E. D. Woolsey Professor of Mineral Economics	25,440
Ching H. Wu Associate Professor of Petroleum Engineering	17,840
F. Richard Yeatts Associate Professor of Physics	18,780
Victor F. Yesavage Assistant Professor of Chemical and Petroleum-Refining Engineering	18,740
Thomas R. Young Adjunct Assistant Professor of Mining Engineering	3,000
A. William Young Director of Admissions	17,910

Laubach Suit. Mr. Stockmar reported that the lawsuit brought by Professor Winton Laubach has been concluded, unless it is unexpectedly appealed or overturned. The District Court had ruled recently in a two-day court case that the plaintiff had not in any way been deprived of his rights. ✓

1976 Enrollment. Dr. Gary reported that enrollment appears to be precisely on target. He said that when 520 freshmen have been accepted we shall inform other applicants that the limit has been reached and any future acceptances will depend upon cancellations by accepted students.

Scholarship Assistance for Heavy Student Load. Dr. Gary reviewed a plan to give financial relief to students who carry more than 18 hours, as the Board had instructed at the May meeting. The administration proposed that students who, with the permission of the Dean of ✓

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Students, take up to 20 credit hours and make a semester GPA of 3.0 to 3.499 and up to 22 credit hours and make a semester GPA of 3.5 to 4.0 be awarded, after the fact, a scholarship in the amount of the charge for the hours in excess of 18. Restrictions to preclude overlapping scholarships will be in effect. The scholarship will be automatic, providing all qualifications are met.

It was moved, seconded, and passed that the plan proposed by the administration be adopted on a one-year basis subject to availability of funds and with the provisos that all concerned entities be advised of the plan and our purpose in doing it and that funding be from non-state funds.

1977-78 Budget. Copies of the proposed budget parameters were distributed. Mr. Stockmar asked that all Board members study these carefully in preparation for a discussion at the July meeting. The 1977-78 budget will then be brought to the Board for approval at the September meeting.

U.S.G.S. Building. Mr. Scott reported that ground was broken on June 8, 1976.

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

WHEREAS, Colorado School of Mines Building Corporation, a Colorado nonprofit corporation (hereinafter the "Corporation"), has been incorporated on behalf of the Colorado School of Mines from time to time to issue its obligations to, among other things, construct, equip, maintain and improve real and personal property and to lease and rent real and personal property to others, and

WHEREAS, this Board has requested that the Corporation issue its Bonds for construction of an office building and research laboratory (the "Project") to be leased to the U.S. Geological Survey on a tract of land legally described as follows (the "Site"):

That portion of the former Public Square in the City of Golden, Jefferson County, Colorado more particularly described as: beginning at the intersection of the Northerly line of 18th Street and the Easterly line of Illinois Street in said City of Golden, which point is the true point of beginning; thence N 35° 41' 05" W along said Easterly line of Illinois Street, 333.48 feet to the center line of 17th Street extended; thence N 54° 33' 55" E along said center line extended, 282.0 feet to a point; thence S 35° 41' 05" E 333.48 feet to a point on said Northerly line of 18th Street; thence S 54° 33' 55" W along said line, 282.0 feet to the true point of beginning.

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WHEREAS, the Site is now owned by the Colorado School of Mines and has been leased to the Corporation pursuant to a Ground Lease dated as of April 1, 1976 (the "Ground Lease"), a copy of which has been presented to this Board; and

WHEREAS, a draft of the Indenture of Mortgage and Deed of Trust from the Corporation to United Bank of Denver National Association (the "Indenture") pursuant to which the Bonds would be issued has been presented to this Board; and

WHEREAS, a copy of the lease of the Project from the Corporation to the United States of America (the "GSA Lease") has been presented to the Board which provides a 10-year renewal option by the Colorado School of Mines.

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Colorado School of Mines as follows:

1. IT IS HEREBY FOUND, DETERMINED AND DECLARED as follows:

(a) The Corporation engages in activities that are essentially public in nature;

(b) The Corporation is one that is not organized for profit (except to the extent of retiring the Bonds);

(c) The income of the Corporation will not inure to any private person;

(d) The Colorado School of Mines will have a beneficial interest in the Corporation while the Bonds remain outstanding, and the Colorado School of Mines will obtain full legal title to the Project upon retirement of the Bonds; and

(e) The Corporation has heretofore been approved by the Colorado School of Mines.

2. IT IS FURTHER HEREBY FOUND, DETERMINED AND DECLARED that the issuance of the Bonds and lease of the Project to the USA will be in the interest of the Colorado School of Mines.

3. The Bonds are hereby approved by this Board of Trustees.

4. This Board of Trustees, on behalf of the Colorado School of Mines, hereby accepts from the Corporation the transfer of the Project when all the Bonds have been retired, hereby agrees

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that title to the Project will vest in the Colorado School of Mines upon such payment and after delivery to the Colorado School of Mines of a Deed and Bill of Sale for the project, and hereby accepts the option to purchase the Project before that date upon certain events and conditions specified in the Indenture.

5. The lease of the Site to the Corporation for a consideration of \$1.00 per year until the bonds are retired and the execution and delivery of the Ground Lease is hereby ratified, approved and confirmed.

6. The granting of the 10-year renewal option pursuant to the GSA Lease and the execution and delivery thereof is hereby ratified, approved and confirmed.

7. The execution and delivery of Assignments from the Colorado School of Mines to the Corporation relating to contracts for architectural services and construction of the Project are ratified, approved and confirmed.

Memorial Plaque. Mr. Sam Del Rio entered the meeting at this time to inform the Board of the background and purpose of the memorial plaque which had been prepared by the Golden Kiwanis and the Blue Key.

The plaque had been prepared as a tribute to the late Den Galbraith and the late Pi Warren, both dedicated alumni who worked very hard and very closely on student-related projects. The memorial had been discussed at Board meetings in 1974 and at that time no firm decision had been made as to location.

Mr. Del Rio explained that the plaque stressed the joint effort and cooperation between the community and the School and said that he felt that an appropriate place for the plaque would be one where both publics would see it.

Mr. Stockmar suggested, and other Board members agreed, that the plaque should be hung on a trial basis in several different locations before a final decision is made.

Mr. Stockmar, speaking on behalf of the Board, thanked Mr. Del Rio for his part in this memorial; he asked that the Board's appreciation be carried to the Golden Kiwanis; and he explained that the Board and administration do have a sensitive problem about putting the memorial in any place which would detract from a previous donor's gift to the School.

Mr. Del Rio expressed his appreciation and left the meeting at this time.

RECORD OF PROCEEDINGS

Keystone, Colorado
July 9, 1976

The Board of Trustees met in regular session in the Fox Fire Room, Keystone Lodge, Keystone, Colorado, at 8:25 p.m., July 9, 1976.

Present: Trustees Bradley, Coors, Eisenach, Fogarty, Grynberg, Maytag, Parrish, and Stockmar.

Others present: President McBride, Vice Presidents Gary, Scott, and Welles, Dean Culver, Alan Burzlauff, Russell White, Mr. and Mrs. Duane Nelson, Mr. and Mrs. George Mitchell, and Richard Sudermann.

The meeting was called to order by Mr. Bradley, presiding officer by rotation.

Previous Minutes. The minutes of the June 11, 1976 meeting were accepted as distributed.

Faculty Appointments. Dr. Gary reported on new faculty appointments. A brief discussion was held concerning the position of Director of Student Affairs. Dean Culver gave background information concerning the need for such a position and the qualifications of Ms. Wegner, who has been appointed to fill it.

Dr. Gary reviewed the new faculty appointments as follows:

Thomas R. Bultman Instructor in Geology	\$13,200
Francis E. Cecil Assistant Professor of Physics	13,750
Robert D. Hamilton Part-time Instructor in Geology	6,200
Matthew J. Hrebar Assistant Professor of Mining	17,500
Patrick MacCarthy Assistant Professor of Chemistry and Geochemistry	14,000
Robert D. Mager Assistant Professor of Mathematics	14,000
Michael D. McIntosh Adjunct Assistant Professor of Mineral Economics (fall semester)	1,500
John M. Shannon Assistant Professor of Geology and Conductor of the Band	13,200

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Joseph Carl Weber, Jr. \$14,500
Assistant Professor of Mineral Economics

Patsey Merritt Wegner 13,500
Director of Student Activities

Monthly Financial Statements. Mr. Scott presented the budget for the 1976 fiscal year and commented to the effect that the School had completed the year within the appropriated expenditure level. Discussion followed concerning the form of the reports, and it was suggested that continuing attention be given to providing reports which are as clear and concise as possible. The monthly investment report was presented. A brief discussion followed. Mr. Scott in response to Dr. McBride's question stated that the School had been reimbursed July 8 in the amount of \$162,206.55 for funds advanced prior to establishment and funding of the Colorado School of Mines Building Corporation, to facilitate the construction of the USGS building. The receipt of these funds will be reflected in the July investment report.

Mr. Scott was requested by the Board to investigate the need for and the procedure for purchase of additional liability insurance coverage to protect actions taken by the Trustees in their official capacity.

1977-78 Budget. The 1977-78 budget parameters were presented to the Board. Discussion followed. Attention was focused on the section dealing with request for additional faculty. President McBride reported that the Presidents of Colorado institutions of higher education had agreed upon a formula to determine the number of faculty requested. The application of this formula will raise our requested number of faculty for 1977-78 to 187.0 FTE. This is an increase over the 174.2 FTE specified in the budget parameters submitted to the Board in June. Discussion followed concerning the number of faculty to be requested. It was the consensus of the Board that all reasonable support must be requested from the State. It was moved and seconded that the 187.0 FTE as determined by the Presidents' formula be requested and that all other of the parameters be accepted as presented, subject to the understanding that parameter No. 18, which provides a guideline for estimating tuition income, not be construed as an approval or acceptance by the Board of a higher tuition level for 1977-78. Motion carried.

The question was raised as to the desirability of an exchange program for mineral engineering, similar to other programs now conducted by WICHE. Dr. Gary responded that it was his understanding that a new program was being proposed and could be discussed at a later meeting.

The appropriate tuition level for foreign students was discussed. President McBride was asked to provide information comparing the foreign tuition rates of other public institutions at a subsequent Board meeting.

1976 Enrollment. Dr. Gary submitted an enrollment report and stated that no further students were being accepted

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by the School. Those students who had returned their commitment to attend subsequent to June 16 were being notified that they could not be accommodated unless space becomes available during fall registration. On the basis of experience, it is expected that 495 freshmen and 130 transfer students will register. Discussion was held concerning those students being denied admissions. Dr. Gary reported that previous correspondence with them had stated the urgency of returning the attendance commitment and that all denials were of students who had returned the commitment at least 16 days after the deadline.

Governor's Study Group on Governance of Higher Education. Mr. Stockmar reported that the Governor had created an in-house study group to review governance. The group had met and given its first attention to the modification of the budget process and indicated that governance would be dealt with at future meetings.

Institutional Autonomy. Mr. Bradley reported that although there was a considerable amount of confusion about the autonomy of the institutions at this time the best existing guideline is the opinion of Attorney General John Moore, dated April 12, 1973.

President McBride reported that Trustees Grynberg and Maytag and he would meet with Governor Lamm on July 20 to discuss the School's proposed fund raising activities. He further stated that July 22 there will be a meeting with the Joint Budget Committee for the same purpose.

The meeting adjourned at 10:15 p.m.

Respectfully submitted,

Gordon Scott, Acting Secretary

Office copy
~~PRELIMINARY~~

RECORD OF PROCEEDINGS

~~ADMITTED~~

Golden, Colorado
September 10, 1976

The Board of Trustees of the Colorado School of Mines met in regular session at 10:00 a.m. on September 10, 1976.

Present: Messrs. Bradley, Coors, Fogarty, Grynberg, Parrish, and Stockmar.

Absent: Messrs. Eisenach and Maytag.

Others present: President McBride, Vice Presidents Gary, Scott, and Welles, Dean Culver, Mr. Alan Burzlaff, Mr. Russ White, alumnus Fred F. Schwartzberg, and Marilyn Saltzman of the Golden Transcript.

The meeting was called to order by Mr. Coors.

Previous Minutes. The minutes of the meeting held on July 9, 1976 were approved as corrected.

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

Robert W. April	\$14,000
Visiting Assistant Professor of Chemistry and Geochemistry	
Charles W. Berry	3,000
Adjunct Assistant Professor of Mineral Economics	
Debra Ann Carnell	12,600
Instructor in Basic Engineering	
Harold R. Chevront	15,000
Registrar (12 months)	
George B. Clark	29,000
Professor of Mining Engineering	
Glen R. Edwards	20,500
Associate Professor of Metallurgical Engineering	
Harry W. Emrick	20,000
Associate Professor of Basic Engineering	
Francois Friedman	14,900
Visiting Assistant Professor of Chemical and Petroleum Refining Engineering	
Martin B. Goldhaber	no compensation
Advisory Scientist, Chemistry and Geochemistry	

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David Gulley Adjunct Assistant Professor of Mineral Economics	3,000
Lloyd J. Hendricks Research Associate, Chemistry and Geochemistry	13,700
Kevin C. Kelley Assistant Professor of Mineral Economics	14,500
Esther R. Magathan Visiting Assistant Professor of Geology (spring semester)	4,000
Ruth Maurer Part-time Instructor in Mineral Economics (fall semester)	3,000
Louise S. Morrison Senior Consultant, Computing Center	17,500
Roger L. Olsen Instructor in Chemistry and Geochemistry	13,000
James M. Riddle Assistant Professor of Mining Engineering	18,000
Harold V. Romero Visiting Assistant Professor of Physics	14,200
Dexter Strawther Adjunct Assistant Professor of Mathematics (fall semester)	3,500
David G. Wirth, Jr. Adjunct Associate Professor of Metallurgical Engineering (fall semester)	1,800

*
for 2/11/76
←
Monthly Financial Statements. Mr. Scott made available the monthly financial reports. He said that based on present enrollment figures and the resident/non-resident mix there appears to be a shortfall of approximately \$140,000 in the total budget. A complete report of enrollment and tuition income will be made at the October meeting.

1977-78 Budget. Mr. Scott reported that the budget is being prepared in accordance with the parameters approved at the July meeting. However, there has recently been received a directive from the State Controller changing the payment method of resident instruction salaries. Traditionally we have paid out the twelve months of contract salaries in two fiscal years; i.e. ten months (September-June) in one fiscal year and the remaining two months (July-August) at the same contract figure in the next fiscal year. The state fiscal year begins July 1. The legislature is made aware of

RECORD OF PROCEEDINGS

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this accounting procedure each year and it is a spending authority problem only. The State Controller recently mandated that state accounting be on an accrual basis; however, on appeal he has agreed to support our position for this next year.

Attention was called to the changing ratio of resident/nonresident students. This year the percentage of resident students has risen. One theory for this change is that the nonresident tuition has been increased by the legislature to such an extent it is having a negative effect on nonresident enrollment. The effects of this on the budget will be discussed at the October meeting when the report is available on enrollment and tuition income.

Development Plans. Mr. Welles reported that at the faculty conference on August 23, 1976 the development plans were discussed. The faculty expressed enthusiasm for the plans and goals and expressed concern *(only)* that ~~faculty time be allowed for an active part in the fund-raising part of the plans~~ *provide some relief for their heavy student loads.*

Mr. Welles said that on September 21 at 7:30 p.m. there will be a student round-table discussion in Metals Hall ~~when the plans will be announced~~ and he invited Board members to attend. Mr. Parrish added a more urgent request for all Board members who can to attend the meeting to exhibit to the students that the Board is interested in the plans and the students' viewpoint.

Mr. Welles said that on September 22 at 7:30 p.m. there will be a meeting in Metals Hall for the alumni to discuss the development plans and again invited all the Board members to attend.

Mr. Welles said that in August after a nationwide search a Director of Financial Resources was employed for the fund raising efforts. He is Mr. Clarence W. Leeds, III.

Mr. Welles and President McBride reported on the meeting held with the Joint Budget Committee, which had been sought by the administration to inform the Committee of the proposed plans. The School had wished to inform the Committee prior to public announcement. The Committee is awaiting a set of guidelines from the CCHE on gifts to higher education. This set of guidelines should be forthcoming soon, at which time the Joint Budget Committee will have to approve it. ✓

Mr. Welles emphasized the importance of stressing the goals desired in the entire campaign and the fund raising as only the means toward these goals. He also stressed the importance of gaining the enthusiastic support of the students.

Architect for Library Addition. Mr. Scott reviewed the procedure which had been followed in the choosing of an architect for the library addition. He said the state had

RECORD OF PROCEEDINGS

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selected five architectural firms to come to the campus for personal interviews and to present plans. Mr. Scott, Dr. Gary, and Mr. Suderman sat on the committee, together with Mr. Jack Wetzner of the State Planning and Budgeting Office, Mr. John Johannson, a representative of the Colorado Association of General Contractors, and Mr. John S. Milan, an architect chosen by the State Planning and Budgeting Office. The final choices were Johnson-Hopson & Partners and the firm of Carlisle B. Guy & Associates.

Mr. Scott said the School is very pleased with the work done so far by the firm of Johnson-Hopson & Partners on the U.S.G.S. building. Mr. Scott said that firm will employ a library consulting firm to work with them in the event the contract is awarded to them. In the view of the administration the firm of Johnson-Hopson & Partners is the best qualified for the job.

Upon motion made, seconded, and passed, the Board approved the firm of Johnson-Hopson & Partners as the architect for the library addition.

Student Housing. Mr. Scott had prepared a memorandum dated August 31 outlining the possibilities of adding nine additional rooms in each of two dormitories (36 units) by finishing unused space in the lower levels of the two buildings. The tentative cost is \$4,000 per bed and the remodeling can be financed from existing bond and interest sinking funds of the project financed by HUD. Reserves thus used can be subsequently rebuilt from revenues.

Upon motion made, seconded, and passed, the Board authorized the administration to proceed to remodel space in Bradford and Randall to provide these 36 additional spaces from funds in existing bond issue accounts.

Additional Dormitories. A memorandum dated August 31, 1976 by Mr. Scott on the need and possibilities of providing more dormitory space was made available.

After some discussion, the motion was made, seconded, and passed that the administration be authorized to proceed with plans to increase housing and eating facilities for single students.

Architect Selection. Mr. Scott explained to the Board the process used by the State and the School in the selection of an architect for a school facility. He said the project application is submitted to the State Planning and Budgeting Office which approves/disapproves the application and advertises for architects. The architects submit credentials and these are reviewed and some five or so are selected as best qualified for the particular project. The finalists are interviewed by a committee composed of representatives of the School, the State, and the professional society of architects.

the Association of General Contractors

September 10, 1976

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The Board expressed interest in the architect selection. It was agreed that a committee of Board members will participate in the interviews of up to five finalists.

The Board expressed itself as most anxious to work closely with the City of Golden, mindful of needs, desires, and limitations of the City insofar as zoning and city services are concerned.

Legislative Audit Committee Report. This item was postponed until the October meeting.

The meeting adjourned at 12:15 p.m.

Assistant Secretary

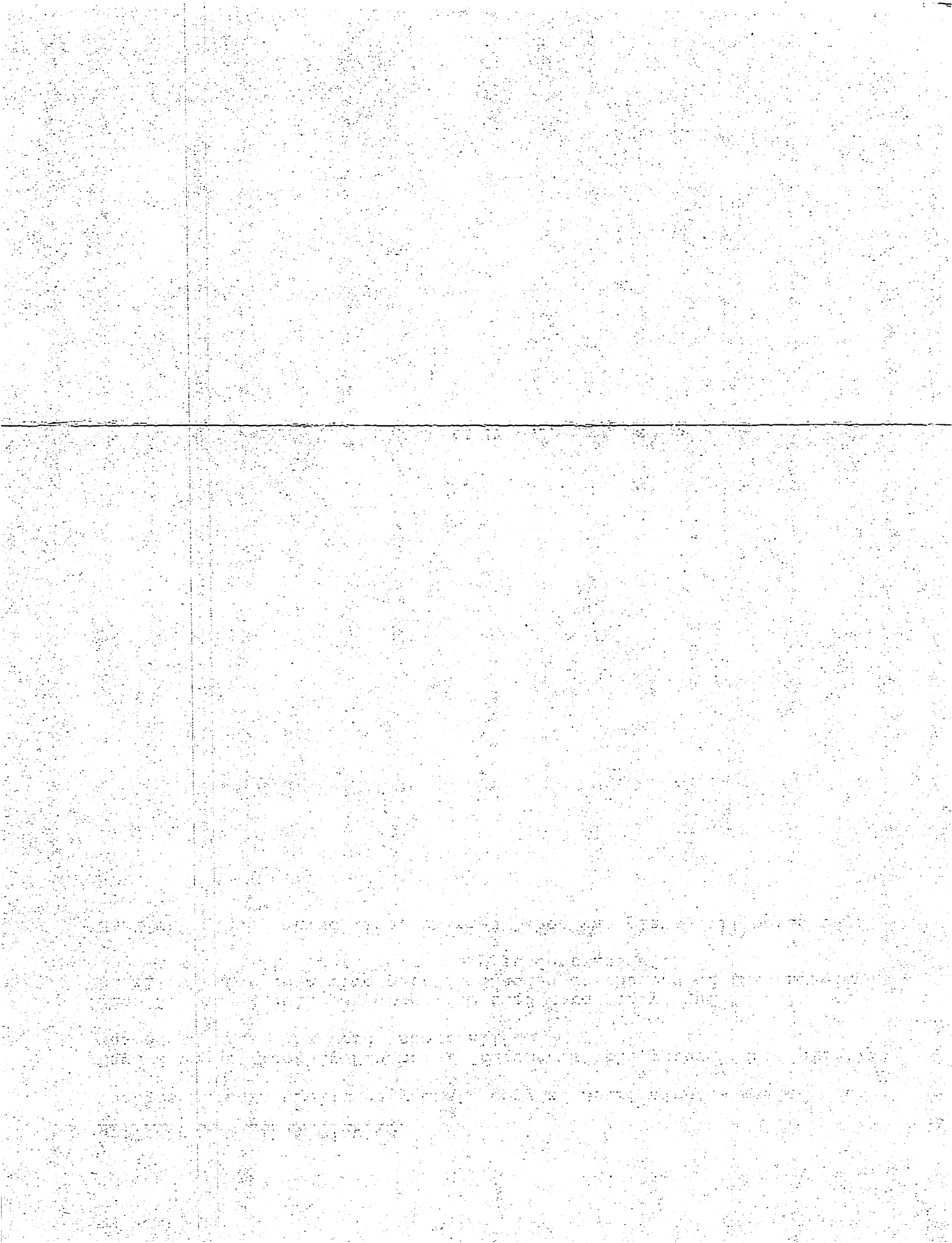
September 10, 1976 minutes.

Changes made in preliminary draft copy of Board minutes mailed out:

Page 2 under "Monthly Financial Statements" the phrase "for fall '76" was added after the word "shortfall".

Page 3, second full paragraph, omitted word "only" and "faculty time be allowed for an active part" and added at the end of the paragraph "prove some relief for their heavy student loads".

Next paragraph, third line, omitted "when the plans will be announced".



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RECORD OF PROCEEDINGS

3

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Architect for Library Addition. Mr. Scott reviewed the procedure which had been followed in the choosing of an architect for the library addition. He said the state had

~~PRELIMINARY~~
~~NOT APPROVED~~

RECORD OF PROCEEDINGS

Official Copy

Golden, Colorado
October 8, 1976

The Board of Trustees of the Colorado School of Mines met in regular session in the Board Room at 9:00 a.m. on October 8, 1976.

Present: Messrs. Coors, Eisenach, Fogarty, Grynberg, Maytag, Parrish, and Stockmar.

Absent: Mr. Bradley.

Mr. Eisenach presided.

Attending the meeting were President McBride, Vice Presidents Gary, Scott, and Welles, Dean Culver, Student Body President Alan Burzlaff, student Scott Graeme, Leanne Gibson of the Golden Transcript, Mr. Jim Nagle and Mr. Russell White of the Brakeley organization, and Mr. Bud Leeds, Financial Resources Director, CSMF.

Previous Minutes. President McBride called attention to several changes in wording proposed by the administrative staff. With these changes approved, the minutes of the meeting held on September 10, 1976 were approved.

New Faculty Appointments. Dr. Gary made available a listing of new appointments made to the faculty since the last Board meeting. He said all except the appointment of Willa D. Meylink were temporary appointments. Miss Meylink will be charged with the responsibility of developing intercollegiate teams for women students as well as that of instructing physical education, and she will therefore actively recruit women students for athletic scholarships.

The appointments made are as follows:

R. Edward Knight Assistant Professor of Basic Engineering (fall semester)	\$8,000
Norma F. Law Adjunct Assistant Professor of Mathematics (fall semester)	4,000
Leslie W. LeRoy Adjunct Professor of Basic Engineering (spring semester)	3,000
Willa D. Meylink Instructor in Physical Education	12,500
Catherine A. Skokan Part-time Instructor in Geophysics	6,750
Linden E. Snyder Instructor in Basic Engineering	12,000

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John L. Wray
Adjunct Professor of Geology
(fall semester)

1,700

Monthly Financial Statements. Mr. Scott distributed copies of the CSM Investment Summary and the monthly financial statements.

Schedule of Events. President McBride called attention to a schedule of events for the remainder of this academic year. Board members are asked to put the dates on their calendars; the listing will be updated periodically.

1976-77 Budget. Mr. Scott reported on what may well be a \$300,000 deficit in tuition income for the 1976-77 fiscal year caused by a higher than predicted resident/nonresident student enrollment ratio. Dr. Gary reviewed for the Board the figures available for use in the summer of 1975 at the time the budget request for the 1976-77 fiscal year was in process. The percentages changed significantly after the budget was submitted, due apparently to the increases in out-of-state tuition.

President McBride said we intend to submit a request for a supplemental appropriation. We also intend to hold in abeyance all possible expenditures in an effort to lessen the impact of such a deficit should the supplemental not be approved.

In maintaining a desirable mix of in-state and out-of-state students, the importance of scholarship support was stressed as well as recruitment by alumni of out-of-state students. The feeling was expressed that a proportion of one-half to one-third out-of-state students is desirable in maintaining a challenging and broadening educational atmosphere on campus.

American Indian Students. As a follow-up to the earlier request that an active program be developed for the enrollment of American Indian students, Dean Culver said that even though our present enrollment is low we are above the national average of American Indians enrolled in engineering schools. Dean Culver said our Admissions Director, Mr. Bill Young, is working with him in evaluating several approaches to the matter, one of which is working closely with Ft. Lewis College at Durango to recruit transfer students.

Mr. Stockmar suggested that Dean Culver inform himself of the possibilities available through the Alaska Native Claims Settlement Act. Dean Culver will check into this.

1977-78 Budget Request. Mr. Scott distributed copies of the 1977-78 operating budget summaries. This budget was prepared using the parameters approved at the July Board meeting with a projected enrollment of 2,500 and a resident/nonresident mix of 71/29. The budget is in the total amount of \$14,297,632.

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Mr. Stockmar asked if our 1977-78 budget request should take into account our fund-raising drive for outside private funds. The matter of seeking spending authority in advance for money raised was mentioned, and it was agreed that this matter should receive serious consideration.

Green Center Roof. President McBride reported to the Board that there is a serious problem with the roof on the Green Center. He said it appears there were errors on the part of the roofing contractor, the general contractor, the supplier of the roof insulating material used, the architect, the various inspectors, and the supplier of the steel decking. He said that acting in concert with the State, the School has engaged a consultant, the Globe Engineering Company of Chicago, to evaluate the problem and to design a new roof. ✓

With regard to the question as to who is going to pay for the new roof, Mr. Stockmar stressed that because of liability care be taken to assess problems prior to any attempt to repair it. He agreed to meet with Mr. Bradley and President McBride on the matter of whether the Board should retain counsel, apart from the Attorney General, to review conservation and development of adequate litigative evidence prior to scrapping the present roof when replaced.

Dormitory Remodeling. Mr. Scott gave a status report on the project. He said that Boettcher and Company is acting as bond advisors to obtain release of reserve funds. In this way we shall not have to borrow, since we have accumulated two years of reserve maintenance and equipment funds and only one year's reserve is required. The architect hopes to have the new space available for occupancy by the beginning of the second semester.

New Dormitory Facilities - (a) Bond Advisors. A sub-committee of the Board composed of Messrs. Grynberg, Maytag, and Parrish met during the previous month and interviewed investment advisory firms for a new dormitory complex. ✓

On the recommendation of the sub-committee, the Board upon motion made, seconded, and passed, approved the signing of a letter of agreement with Boettcher and Company to act as bond advisor on the new dormitory facilities.

(b) Selection of Architect. President McBride said Mr. Scott is working with the state agencies to create a proper panel which will validate the names of four or five firms for further selection by the Board. ✓

Mr. Grynberg distributed copies of an Executive Order signed in 1974 by then Governor John Vanderhoof, outlining the procedure for the selection of architects for state facilities. Mr. Grynberg reported that he had been in touch with the Governor's office and is informed that a replacement or supplemental Executive Order is under consideration which will allow state institutions much more, or even substantially complete, autonomy in the selection of the architect for buildings erected with state funds. In the meantime, on such state-funded buildings, Mr. Grynberg further understands

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that the architect selection process outlined in the Vanderhoof order is to be emended to include a Board representative on the selection committee.

In contrast, buildings erected with private funds, e.g. bond or gift funds, are considered by the Governor's office to be an entirely different matter not subject to the Executive Order provided the Board wishes to assume full responsibility.

After some discussion, Mr. Grynberg was authorized to write to the Governor stating that at this meeting the Board had resolved to exercise its responsibilities to select architects and contractors as required for the new dormitories project, anticipating utilization therefor of no state funds, and had further appointed a Board sub-committee for the initial purpose of selecting an architect.

Mr. Stockmar thereupon appointed a sub-committee made up of Messrs. Coors, Grynberg, and Parrish.

Legislative Audit Committee Report. In view of the hour, this item was deferred until the November meeting.

Major Development Campaign. Mr. Welles introduced Mr. Bud Leeds who is the newly-appointed Director of Financial Resources.

Mr. Welles reviewed the revised Table of Needs dated October 7, 1976. After some discussion and suggestions, it was moved, seconded, and passed that this revised listing be approved as our table of absolute needs, recognizing that there must be some flexibility. ✓

The approved Table of Needs is as follows. The order in which items are listed does not imply priority ranking.

I. ENHANCING THE TEACHING-RESEARCH ENVIRONMENT

	Amount (In millions)
a. <u>Teaching-Research Endowment</u> - To strengthen the CSM tradition of quality education, especially undergraduate teaching, through support of activities designated from time to time by the Board of Trustees as most deserving of initiation or augmentation. At present, the Trustees have singled out three areas for such designation:	\$10.0
(1) <u>Teaching Resources Fund</u> - To encourage and enable faculty to improve classroom teaching by providing funds at the departmental level for teaching assistants, instructional materials, technicians, honoraria and expenses for visiting lecturers, classroom visual aids, etc.	
(2) <u>Faculty Resources Fund</u> - To stimulate professional development and attainments by faculty through funding of such activities as faculty travel and	

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expenses to attend professional meetings, professional membership and conference fees, editorial and secretarial assistance for publishing papers, new and revised course preparation, design of new experiments for laboratory classes, departmental planning, incentives for professional growth, and instructional equipment maintenance. (This is an extension of the present Faculty Improvement Fund concept supported by annual gifts to the CSM Foundation.)

- (3) Faculty-Student Research Fund- To provide the financial means for faculty and qualified students to undertake a variety of research activities for which outside funding is generally not available, including research program planning, proposal preparation, and project-promotion as well as for the "seeding" of research ideas, for joint venturing or matching purposes, to support a limited number of technicians and to maintain research equipment.
- b. Mining and Basic Engineering Building- To construct and equip a new building to house the Departments of Mining Engineering and Basic Engineering. The present 72-year old Mining Building (Chauvenet Hall) is overcrowded and structurally unsuited for classroom and laboratory use. 4.0
to 6.0
- c. Major Addition to Library Building and to Library Collection- To supplement the \$1.52 million appropriated by the Colorado Legislature in May 1976 to construct a major addition to the Arthur Lakes Library at CSM to relieve serious overcrowding and accommodate needed expansion of the collection; supplemental funds necessitated by quality considerations, specialized equipment, and--most importantly--collection acquisition needs. 4.0
- d. Research Center- To construct and equip a new facility to house inter-disciplinary research laboratories, dangerous laboratories, and expensive equipment used by several departments. 4.0
- e. Equipment (Partially Endowed)- To acquire instructional and laboratory equipment needed to keep pace with rapid developments in energy and minerals technology. (Immediate equipment needs total \$600,000; endowment of \$3 million needed to supplement state budget for equipment purchases.) 3.6
- f. Academic Computer Facilities- To acquire a higher capacity, more versatile computer system to meet the instructional and research needs of the expanding student body and growing research programs. (Specifications and cost of facilities depend on whether CSM shares the system with other state institutions of higher education.) 0.5
to 1.5

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II. ENRICHING THE INTELLECTUAL ENVIRONMENT

- g. Departmental Professorships (Endowment)- To permit the attraction or development of outstanding and dynamic faculty members who will enrich the teaching, research, and public service activities of CSM through creation of eight endowed professorial chairs; enhancement of the quality of the undergraduate educational process will be an explicit obligation of each incumbent. 6.0
- h. Presidential Chair (Endowment)- To bring to CSM each year on a nine-month visiting basis the person, selected on a world-wide basis, judged most capable of stimulating scholarship, intellectual excitement, and wide-spread interest in his field on the campus and in the minerals community; disciplinary field to be rotated among CSM departments. 0.8
- i. Distinguished Lecture Series (Endowment)- To stimulate student and faculty interest in new frontiers and challenges in the mineral field, this endowment will bring to the CSM campus each year a distinguished series of lecturers. 0.3
- j. The Presidential Fellow (Endowment)- An endowment to enable a student-faculty committee to invite once each semester an outstanding official from industry, finance, or government to spend three days on the CSM campus talking formally and informally with students and faculty, exchanging ideas, experiences and insights. 0.1

III. AUGMENTING THE STUDENT ENVIRONMENT

- k. National Achievement Scholarship Program (Endowment)- To attract to CSM some of the most capable undergraduate students in the United States, this program will fund 50 full, four-year tuition scholarships at Mines each year, geographically dispersed throughout the nation; beginning in the fourth year and continuing thereafter, a total of 200 recipients of this scholarship (less attrition) will be enrolled at CSM at any given time; the selection process will balance merit with need in award criteria. 8.0
- l. Student Housing- To help provide additional single and married student housing necessitated by increasing enrollment and shortage of suitable off-campus housing in Golden. (Partial funding is available via conventional financing routes. Rental fees to students would be prohibitively high if conventional sources were used to finance the entire cost of new housing. Therefore, the supplemental funding indicated here is needed to keep fees within reach of the students.) 1.5
- m. Athletic Facilities- To renovate the existing Field House, develop two new practice fields, build six 0.86

October 8, 1976

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handball/paddleball/squash courts, light existing tennis courts, and renovate the existing track and baseball fields.

- n. Infirmary- To construct and equip a medical facility (a building wing) for CSM to replace the temporary structure presently serving as the School's infirmary. 0.1

IV. STRENGTHENING LEADERSHIP AND PUBLIC SERVICE IN THE MINERALS FIELD

- o. Public Service Grants (Endowment)- To permit and to encourage faculty members to engage in significant professional and public service activities by providing relief from heavy teaching loads and high student-faculty ratios, eight professors will be chosen each academic year to receive a one-third-time public service grant supported by an endowment. 1.9
- p. Mineral Policy Forum- To create a marketplace in which policy ideas concerning the most vital mineral and energy issues of the day can be articulated and evaluated rationally for their intrinsic merits by means of seminars, conferences, and speakers. (For five years at \$80,000/year.) 0.4
- q. Industry and Government Exchange Program- To support an exchange program of CSM faculty with appropriate personnel from the minerals industry and government agencies. (For five years at \$50,000/year.) 0.25
- r. Mining Institute for Environmental Management- To plan and initiate a summer program for practicing engineers and scientists to teach the background and techniques of environmental engineering and management associated with mineral development. 0.1

\$46.6
to

Sub Total 49.6

V. EXPANDING ANNUAL SUPPORT

- s. Over and above the preceding items, to double the current annual rate of about \$1 million in gifts to CSM in the seventh year; sources will include the Annual Alumni Development Fund (AADF), foundations, corporations, parents, and friends.
- 1.5 first 3 years
1.7 second 3 years
2.0 third 3 years

Total of Annual Support: \$15.6 for 9 years

Grand Total \$62.2
to
65.2

Note: Each proposed new building will be designed with optimum energy-saving features (e.g. configuration, insulation, lighting) plus consideration will be given to the feasibility of incorporating solar space heating/cooling.

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Mr. Russ White of the Brakeley Company distributed an updated plan of action including organizational requirements. He mentioned the planned meeting in Denver on November 12 with local business leaders and a similar meeting in New York, tentatively planned for November 10 or 11. He asked that all be involved in the campaign as well as in the planning.

Mr. Welles said that after much discussion and many good suggestions the recommended name for the campaign is "THE RESOURCE FUND OF CSM." Upon motion made, seconded, and passed the recommendation was accepted. ✓

Mr. Grynberg suggested that an early project be the obtaining of U.S. Army funds for the construction of a new ROTC building. He asked the administration to prepare pertinent data for presentation to the proper officials to substantiate such a request. President McBride said this can be furnished readily. ✓

Mr. Grynberg also suggested the value of a summer program to train, perhaps in a joint effort with some other university, mineral industries executives. This idea was considered meritorious and of definite value in our fund-raising efforts but not realizable in time to affect our fund-raising campaign. ✓

The meeting adjourned at 12:30 p.m.

Secretary

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RECORD OF PROCEEDINGS

Denver, Colorado
November 12, 1976

The Board of Trustees met in regular session at the Denver Country Club on November 12, 1976 at 9:00 a.m.

Present: Messrs. Bradley, Eisenach, Fogarty, Grynberg, Maytag, Parrish, and Stockmar.

Absent: Mr. Coors.

Dr. Fogarty presided.

Attending the meeting were President McBride, Dr. Alter, Vice Presidents Gary, Scott, and Welles, Dean Culver, Mr. Charles Morris, Mr. Bud Leeds, Mr. Russ White, Mr. Bill Young, and Ms. Marilyn Saltzman of the Golden Transcript.

Previous Minutes. The minutes of the meeting held on October 8, 1976 were approved.

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

Beatrice L. Willard Professor of Environmental Science (second semester)	\$10,250
John L. Wray Adjunct Professor of Geology (fall semester)	1,700

There was considerable discussion on the appointment of Dr. Willard and the proper place of environmental science in the curricula. It was concluded that concern about the environment was realistic and should be recognized as necessary, both because of our own natural concern and because of governmental regulatory requirements.

Monthly Financial Statements. Mr. Scott, in making the monthly statements available to the Board, said we are operating within the accepted financial plan.

Mr. Scott distributed copies of the tentative 1977-78 budget proposal from the Governor's office, stressing it was only preliminary.

Green Center Roof. President McBride reported to the Board that as mentioned at an earlier meeting, the problem with the roof of the Green Center is serious and that a consultant has been employed to recommend corrective measures. These measures are predicted to include a completely new roof at an estimated cost of \$240,000 or more, exclusive of the

PRELIMINARY
NOT APPROVED

RECORD OF PROCEEDINGS

cost of repairs of water damage to the building interior. He said the state, after a dilatory start, has been completely cooperative in handling the problem; the Office of Planning and Budgeting is taking the initiative to get a supplemental appropriation for this work.

The immediate question is where to obtain the funds to finance the work now. Mr. Scott said there are two potential sources; (1) restricted funds, i.e. gifts and the proceeds from the sale of Wild Horse Park some years ago; and (2) an inter-fund loan from the Health & Accident Fund. It was explained that the Health & Accident Fund accumulated over a period of years when there was a surplus in the fees paid by students. This was held toward the construction of an infirmary. This was also a self-insurance technique which was in effect for several years. The surplus was held to cover such things as epidemics which fortunately never occurred. The fund is under the control of the Board of Trustees.

President McBride asked and received authorization to advance up to \$300,000 from the above sources with the understanding that repayment will be expected from supplemental appropriation and/or litigation.

Commencement Speaker. President McBride reported that the Governor has been invited informally to be the Commencement speaker on May 6, 1977 and has indicated his willingness to accept the invitation. President McBride recommended to the Board that the Governor be given an honorary degree at that Commencement.

Upon motion made, seconded, and passed, the Board approved the awarding of the honorary degree, Doctor of Engineering, to Governor Richard D. Lamm at Commencement, 1977.

Architect - Long-Range Plan. President McBride said a search had been made for the right person to keep careful watch over the over-all campus development. He said there is no intention of changing the master plan approved several years ago but he felt there should be an independent architect to coordinate all future building and expansion. He said the Colorado Commission on Higher Education allocated \$3,000 for this purpose in October, 1976. He said he is ready at this time to recommend Sasaki Associates, Inc. for this work. He said Mr. Sasaki has visited the campus and will do such work at a fee of \$400 per day, or less, plus necessary expenses.

Upon motion made, seconded, and passed, the Board approved the recommendation that Sasaki Associates, Inc. be engaged for work on campus planning.

Architect - New Dormitory Facilities. President McBride reported that, acting at the direction and with the authority given by the Board, the architect sub-committee under the leadership of Mr. Grynberg is recommending the firm of John D. Anderson and Associates. Mr. Grynberg reviewed

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for the full Board the method used in arriving at this recommendation and asked that the tally from the process be made a matter of record.

Upon motion made, seconded, and passed, the Board approved the firm of John D. Anderson and Associates for the additional dormitory facilities.

Legislative Audit Committee Report. President McBride reported on the hearing before the Legislative Audit Committee on November 5, 1976. He said we were called upon to explain why we are not in compliance with the recommendations made by the auditors. The Committee was not fully satisfied with the explanation and we are under instructions to report to them on a periodic basis, not specified, what we are doing to bring the accounting system into compliance. President McBride said he and Mr. Scott will meet on a regular basis to monitor the situation. Board members expressed their concern at the seriousness of the matter and directed that we pursue compliance soonest.

Tax-Sheltered Annuity Programs. It was moved, seconded, and passed, that the Board ratify and approve the sale of tax-sheltered annuities to the faculty and Civil Service employees of the School by Northwestern Mutual Life, TIAA/CRFF, and Prudential Insurance Company under the terms and conditions established by the administration.

It was further moved that new employees be allowed to transfer tax-sheltered agreements initiated with a former employer to the Colorado School of Mines without restrictions as to the company which sold the contract. Such contracts may be continued in force by the Colorado School of Mines, but no company other than the three specified above shall be allowed to sell additional contracts to employees of the Colorado School of Mines.

Recruitment of American Indians. Mr. Bill Young, Director of Admissions, gave a report on the present situation and the plans for future enrollment of American Indians. He said that in studying the situation he has determined that of institutions of higher education specializing in engineering curricula we are seventh in the number of American Indians enrolled. In 1971 we did not have any and in the fall of 1976 we had eight. He said recruitment centers around (1) our summer minority program under the direction of Dr. Dale Foreman; (2) scholarship funds being made available; and (3) the counseling of prospective minority students. He said we are pursuing the establishment of a program with Fort Lewis College at Durango to recruit more American Indian transfer students, effective with the next academic year.

Mr. Grynberg suggested that in view of the high percentage of Indian-owned land in the United States as compared to Indians involved in the development of mineral resources, we should seek to obtain funds from private and public sources.

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Mr. Stockmar reported that, upon inquiry into the Alaska Native Claims Settlement Act, he had learned that the real need in that state is primary education for the Indians, that very few are ready for college educations.

Mr. Young said that it was not only American Indians but also other minorities which are not well represented in science and engineering educational institutions. He said there is an economic situation factor involved and that this entire group has apparently not been motivated toward these fields.

The Board thanked Mr. Young for his excellent presentation and encouraged him along the lines he is pursuing.

Development Program. Mr. Welles reported on the excellent work done by our geology staff in connection with the field trips available to those attending the recent meeting of the Geological Society of America, meeting in Denver.

He said that at the faculty meeting on October 13 the faculty had been told about the Table of Needs. The Table was generally well received and the faculty seemed pleased that some of their concerns had been taken into consideration. He said the committee working on the new Mining and Basic Engineering building has made a report sufficient for use in making a request to a potential donor.

Mr. Welles also reported on work being done to interest a donor in a collection in our library.

Mr. White reported on progress on leadership campaign meetings scheduled for New York, Houston, and San Francisco, with other sites to be added as dates firm up.

Summer Management Programs. Professor Jean Mather, who had entered the meeting, presented his thoughts on a possible summer management program to be offered executives in the mineral industries. He said he has given the matter a great deal of consideration and concluded that the most effective program, in his opinion, would consist of three sessions of three weeks each on a definite school basis, importing experts in each field to give thorough practical instruction in line with the Mines philosophy. Professor Mather said much exploratory work needed to be done before anything could be settled. He said he would want to make several trips to explore the possibilities of any program.

It was concluded that the entire concept should be thoroughly explored and that consideration should be given to the question of where such a program will fit into our priorities. President McBride said he wished some time to discuss the entire idea and possibilities with Professor Mather and since this was the first time the matter has been discussed at length he did not have a recommendation to make at this time.

Secretary

The meeting adjourned at 11:30 a.m.

Conrad Parrish. Mr. Maytag said that because this is the last meeting Conrad will be attending as a member of the Board he wished to express to him the pleasure and honor he felt at having sat on the Board with him. He said he had benefited greatly from having had Conrad's viewpoints and he hoped Conrad's successors will contribute to the Board in a comparable manner. There followed general expressions of concurrence.

RECORD OF PROCEEDINGS

Approved

1-14-77

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PRELIMINARY

RECORD OF PROCEEDINGS

NOT APPROVED

Golden, Colorado
December 10, 1976

The Board of Trustees met in regular session at 9:00 a.m. on December 10, 1976 in the Board Room.

Present: Messrs. Bradley, Coors, Eisenach, Fogarty, Grynberg, Maytag, Stockmar, and Trustee Emeritus Parrish.

Also present were President McBride, Dr. Alter, Vice Presidents Gary, Scott, and Welles, various students, staff members, and a representative of the press.

Mr. Grynberg presided.

Previous Minutes. The minutes of the meeting held on November 12, 1976 were approved.

Faculty. The Board was notified of administrative action granting leave without pay for second semester 1976-77 to Professor Keenan Lee. It was suggested that Professor Lee, who is traveling to Taiwan, and others spending time abroad, advance The Resource Fund by local contact.

Professor Lee's 1976-77 contract will be amended to reflect leave without pay.

Oath of Office. Newly-elected student member, Joey Val Tucker, took the oath of office as a member of the Board. ✓

Conrad Parrish. Board President Stockmar presented, on behalf of the entire Board, a silver certificate of appreciation to Conrad Parrish, who resigned his position as a Board member effective December 1, 1976, in anticipation of graduating on December 17 and who now joins the class of Emeritus Trustees. Board members joined Mr. Stockmar in expressing their appreciation to Conrad for his services on the Board. ✓

Monthly Financial Statements. Mr. Scott made available the monthly financial statements and said in his belief we are operating within the accepted financial plan for the 1976 fiscal year.

Candidates for Degrees. Distribution was made of lists of candidates for degrees as recommended by the graduate and regular faculties at the meetings held on November 14, 1976 and November 3, 1976.

(It is noted that degree candidates Ali Bahavar, Bachelor of Science, Petroleum Engineering, and John Douglass Lorimer, Bachelor of Science, Geophysical Engineering, whose names appear on the approved list, have not been approved by the faculty due to their having been added after the faculty meeting. Trustee approval of these candidates is understood to be contingent upon proper approval by the faculty at its scheduled meeting on December 15, 1976.)

December 10, 1976

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Upon motion made, seconded, and unanimously passed, the following were approved for degrees on December 17, 1976, subject to the completion of all academic requirements and continued compliance with school requirements and regulations.

BACHELOR OF SCIENCE (MINING ENGINEERING)

Stacey Kristian Arnston	Jerald Wayne Keifer
Paul Michael Brunner	Alvin LeRoy Langstaff
David Bruce Croas	David Bruce Mairs
Kadri Dagdelen	Dale Michael McFadden
David William Dobbs	Charles Rogers McLendon III
Mark Robert Fraunhoeff	Conrad Howard Parrish
Michael John Gobla	Michael Dennis Pope
Lewis Bryan Gray	Larry Matthew Reschke
Ross Lewis Gubka	Thomas James Schamberger
Ronald Satoshi Hamagami	James Parker Schmid
Paul William Hynes	Terry John Stefanick
James Robert Johnson	Robert Michael Taylor

BACHELOR OF SCIENCE (METALLURGICAL ENGINEERING)

Steven Leigh Brown	Daniel Ray Polly
John Lindsay Carpenter	Elane Carol Sanderson
Linda Diane Danio	Craig Wolfe Sandusky
Gary Stephen Flye	Richard Gordon Schupmann
David Scott Hass	Lyle Arthur Smith
Gordon Paul Kallenberg	Peter Alan Steinmeyer
Frank Harrison Merrill	Ronnie Jerry Vasquez

BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

Raymond Earl Bailey	William Stanley Ludwick
Michael Carney	Eric Eugene Morti
Paula Fedec	Michael Harold Portigal
Sandra Kathleen Gabbett	Vincent Norman Vogt
William Kirk Gibbs, Jr.	Stephen Carter Weston

BACHELOR OF SCIENCE (PETROLEUM ENGINEERING)

Ali Bahavar	James Ray Oberlander
Rob Wallace Coleman	David Michael Skelton
Charles Arthur Hansen	James Edward Stephinski
David H. Johnson	Michael Anthony Vais
Robert Ray Mann	Michael E. Ward
Gary Jan Nilson	

BACHELOR OF SCIENCE (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Mohammed Farag Abduljalil	James Patrick McCann
James Michael Gindelberger	Barry John Pritchard
Michael D. Hiza	

BACHELOR OF SCIENCE (GEOPHYSICAL ENGINEERING)

Kelly Scott Beal	Thomas Orland Miles
Gregory Lee Brown	Stephen Paul Mitchell
David Eric Josefty	Gordon Casey Ross
James Craig Laughry	Francis James Smith
John Douglass Lorimer	Duane William White
Lowell Roger Martinson	Wayne Paul Wilson

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GEOPHYSICAL ENGINEER

John Luther German

BACHELOR OF SCIENCE (MINERAL ENGINEERING--CHEMISTRY)

Mitchell Wayne Hamilton

BACHELOR OF SCIENCE (MINERAL ENGINEERING--MATHEMATICS)

Edward Traverse Cotter
William Jerome Evans
Stephen John Herrman
Thomas L. Shuford, Jr.
Thomas U. Vorce

BACHELOR OF SCIENCE (MINERAL ENGINEERING--PHYSICS)

Scott Buckingham Anderson
Kenneth Edward Green
William Alan Hudson
Martin Dale Rymes
Hal Bruce Storrs

BACHELOR OF SCIENCE (MINERAL ENGINEERING)

Lee Ann Marx
Henry Karl Obermeyer
William Jerry Willeford

MASTER OF SCIENCE (MINING ENGINEERING)

Glenn John Stuart Laing

MASTER OF ENGINEERING (METALLURGICAL ENGINEERING)

Carlos Mirabal M.

MASTER OF SCIENCE (METALLURGY)

Thomas Allan Whipple

MASTER OF SCIENCE (METALLURGICAL ENGINEERING)

Hector Gustavo Ramos Barnola
Julio D. Bonelli A.
Eric J. Olin

MASTER OF SCIENCE (GEOLOGY)

Robert Wesley Butler
Steven Gerald Kirkwood
Raymond Mark Maslyn
Robert Craig Myers
William David Zogg

MASTER OF ENGINEERING (PETROLEUM ENGINEER)

Jumobi Olaribigbe Bashua
Wilson Moreno Armas

December 10, 1976

MASTER OF SCIENCE (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Steven Andrew Barker
Oliver Kwein-Ren Chang
Roberta Rose Fleckenstein
John Riley McConnell
Rajendra O. Sheth
Vasantkumar Pragju Thakkar

MASTER OF ENGINEERING (GEOPHYSICAL ENGINEER)

Deborah Rue Miles

MASTER OF SCIENCE (GEOPHYSICS)

H. George Beggs Jr.
Sid'Ali Nadir Omari

MASTER OF SCIENCE (GEOPHYSICAL ENGINEERING)

Nancy R. Money
Nelson Rodriguez Ortiz
Scott L. Stockton

MASTER OF SCIENCE (CHEMISTRY)

Harry H. Bryan
Shahrokh Ghaffari Neyzari

MASTER OF SCIENCE (GEOCHEMISTRY)

Joan Kay Jennings
Armando Jose Ramirez Rojas
Paul Michael Taufen

MASTER OF SCIENCE (MATHEMATICS)

Ewa Katarzyna Raines

MASTER OF SCIENCE (MINERAL ECONOMICS)

Arthur Charles Anderson
Rafael Ernesto Borges Olivieri
Ronald Wayne Cattany
Meade S. Curtin
Robert Lewis Davidoff
Armando Duarte Ramirez
Douglas John Eggert
William Durand Eppler
Jose Antonio Avideo Furnaguera Castellon
George Joe Hartman
Clifford Clarence Parsons Jr.
Dan P. Sprouse
Muhamad Ali Saleh Zainy

DOCTOR OF PHILOSOPHY (METALLURGY)

Jerry LeRoy Blattner
William Scott Moser
Bruce Schiller

DOCTOR OF PHILOSOPHY (GEOLOGY)

James C. Fisher
Abdul Raof Ismail Jado

DOCTOR OF PHILOSOPHY (GEOLOGICAL ENGINEERING)

David Huntley

DOCTOR OF PHILOSOPHY (PETROLEUM ENGINEERING)

Roberto Aguilera Guevara
Hazim Hassan Al-Attar
Ali Mohsen Al-Mashat

DOCTOR OF PHILOSOPHY (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Fahad Abdulrahman Somait

DOCTOR OF PHILOSOPHY (GEOPHYSICS)

Robert Alan Crewdson
Fu-Chen Su

DOCTOR OF PHILOSOPHY (GEOPHYSICAL ENGINEERING)

Lawrence H. Kumamoto
Ulrich Schimschal

DOCTOR OF PHILOSOPHY (GEOCHEMISTRY)

Allan Robert Reid

DOCTOR OF PHILOSOPHY (MINERAL ECONOMICS)

Ronald Kelly Tulk

July Meeting. President McBride said he had placed this on the agenda because for the past three years an extended July meeting has been held away from the campus and he wished to know if the Board wanted to continue this practice and if so, he desired suggestions on location and subject(s) to be discussed.

The members of the Board expressed general satisfaction with the custom, recommended a Colorado mountain location similar to Keystone in quality of facilities, and expressed intent to bring suggestions for topics to the January meeting.

It was agreed the dates of the July Board meeting will be July 15 and 16, 1977 with arrival the evening before and departure the day after, moved from the second Friday of the month as provided by the bylaws.

Development Report. Mr. Welles distributed copies of the December, 1976 "Winter Report, 1976-77" which explains the role of the School in higher education in the State and

describes the School's current financial situation.

Dr. Fogarty spoke of the upcoming New York development luncheon, at which he expects approximately 75 persons from various constituencies such as industry, foundations, broadcasting.

Mr. Russ White spoke of the schedule of the development program, saying it is expected that within 30 to 60 days significant gift announcements can be made. He spoke of the efficacy of withholding a "kickoff" announcement until major contributions can be made public in order to demonstrate that we have an active campaign in operation and worthy of support. Members of the Board expressed concern about waiting too long lest maximum effectiveness be lost.

Green Center Roof. President McBride gave a status report of the roof, saying that we have now received detailed report outlining the damage, potential liability, participants in the liability, and measures which must be taken to correct the faulty roof. He said Mr. Scott is working with the proper state departments to bring about correction. We are preparing to get the roof repaired at the earliest possible date, while also going ahead with a request for a supplemental appropriation pending successful litigation. The matter is being handled by the Attorney General. In answer to Mr. Maytag's question, President McBride said funds as authorized at the November meeting may be required to be used but can be expected to be returned after the matter has been settled. ✓

Library Addition. President McBride reviewed the plans for an addition to the library. He said that although a very careful study had been made of preserving, and perhaps utilizing, the old gym during library expansion, after consultation with the architect, the campus planner, the library staff, and his own staff, it had been decided for reasons of campus unity and appearance and library operation, to raze the old gymnasium, now called the Research Center, to permit extending the library to the west. He said he had secured concurrence of Board members by telephone in this decision.

Mr. Stockmar reported on a letter from Mr. R. Wm. G. Wright, copies of which he made available to the Board members, in which Mr. Wright had asked that for reasons of possible economy and preservation the old gymnasium be utilized in the library expansion. ✓

Mr. Stockmar introduced Mr. Harry Ells, who asked to speak in favor of the preservation of several of the old buildings including the old gym. Mr. Ells spoke of the potential for fund raising among alumni who might share an interest and desire to save the old building(s) from demolition. He said after seeing the size of the planned addition he realized it might be difficult to utilize the gym in the way his group had visualized but he hoped the request would be considered.

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Mr. Bradley agreed that efforts should be made to preserve some of the older buildings, if at all possible, rather than obliterating all remnants of the past generations. He mentioned specifically Chauvenet Hall and Stratton Hall. He suggested that any interested group should meet with the campus planner and perhaps Langdon Morris, an architect who specializes in saving old buildings and returning them to useful purposes, to consider the preservation of Chauvenet and Stratton Halls.

The matter was suggested as a topic for the July meeting.

As for the library addition, it was the consensus that the administrative decision to raze the old gymnasium was well founded, and no action was taken to change this decision.

Location of New Mining Building. A campus plan was displayed and the location of the proposed new mining building was discussed. No decision was made, but the site between 16th and 17th and Maple and Illinois was viewed favorably.

Affirmative Action Report. President McBride made available the report of the staff meeting held on November 23, 1976 at which the annual Affirmative Action Report had been reviewed. He said the complete report, which was quite voluminous, was available to anyone interested. The review is required by federal regulations, and the report itself is kept on file.

Mr. Maytag asked Dr. Alter if the report seemed satisfactory to him, and Dr. Alter said in view of the many complicating factors, he thought we had satisfied all requirements adequately.

Mr. Stockmar asked what effect the recent ruling by the Department of Personnel would have on our hiring of classified employees, the ruling being that two lists must be maintained and all persons on both lists interviewed. One list will be that of the top three persons qualified for the position and the second list will be the top three minority persons applying for the position. President McBride said this appeared, on the basis of newspaper accounts only, to present no problem for us because we not only wish to hire qualified minority persons but indeed have difficulty getting applicants for many of our openings.

American Indian Students. Mr. Grynberg said he had been in touch with Mr. Bill Young, Admissions Officer, who is working on an agreement with Ft. Lewis for the transfer of American Indian students.

Gift to CSM Library. Mr. Grynberg reported on a gift from Mr. Marvin Owens to the School library of American Institute of Mining & Metallurgical Engineers Transactions from 1937 to date, plus other material. Mr. Grynberg recommended acceptance of the gift and asked that it be read into the minutes that the Board was very appreciative of the gift.

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Computer Financing. Mr. Grynberg proposed to the Board that the School consider the method used by Colorado State University Research Foundation in financing computer acquisition through a bond issue. The bond issue has been amortized through the sale of time to businesses and government agencies. Mr. Grynberg suggested we investigate a similar plan whereby the School might acquire a major computer, which eventually will belong to us.

Discussion ensued centering on the security for such a debt, the state view of selling computer time to business in competition with private enterprise, the protection of student access against competing contracted demand, and the managing of a major installation. The administration is to formulate a preliminary prospectus.

Distinguished Achievement Medals. Mr. Stockmar requested Dr. McBride to appoint a screening sub-committee to make recommendations on recipients of the Distinguished Achievement Medal.

New ROTC Building. President McBride and Vice President Gary introduced Colonel Richard A. Bernard, Professor of Military Science, who presented slides showing the history and present status of the military program at Mines. He spoke of the WWII barracks building which houses the department and the need for better quarters.

There was a discussion of whether or not this was the responsibility of the School or the U. S. Army to furnish such a building. Military Science is required of the freshman and sophomore students at Mines. Of the upper division, there are 12 enrolled as juniors and 7 as seniors, most of whom have ROTC scholarships.

The general usefulness of the program was discussed and suggested as a topic for further discussion when more time was available.

It was agreed that the material presented by Colonel Bernard would be cast in a form suitable for use by Mr. Grynberg in contacting influential lawmakers.

The meeting adjourned at 12:30 p.m.

Secretary

December 10, 1976