RESOLVED, That the WACHOVIA BANK & TRUST COMPANY, Winston-Salem, North Carolina, as a designated depository of this corporation be and it is hereby requested, authorized and directed to honor, effective September 1, 1973, all checks, drafts or other orders for the payment of money drawn in this corporation’s name on the accounts listed below (including those drawn to the individual order of any person or persons whose names appear thereon as a signer or signers thereof) when bearing or purporting to bear the signatures or facsimile signatures of the following:

Guy T. McBride, Jr.  President
W. G. Scott  Vice President for Business Affairs

and the bank shall be entitled to honor and to charge this corporation for all such checks, drafts or other orders for the payment of money, regardless of by whom or by what means the actual or purported facsimile signature or signatures thereon may have been affixed thereto, if such facsimile signature or signatures resemble the facsimile specimens from time to time filed with the bank by the secretary or other officer of this corporation; and

FURTHER RESOLVED, That all previous authorizations for signatures on checks or drafts and for deposits are revoked effective September 1, 1973.

CSM Student Loan Fund  1-018-387
NDSL Fund  5-018-385

August 13, 1973
In affixing his signature to this CONSENT OF TRUSTEES in the space provided, each Trustee indicates approval and acceptance of the above resolutions as if adopted at a regular or special meeting called for the purpose. Each Trustee further agrees that any number of copies of this consent may be separately executed by Trustees and all copies so executed shall collectively constitute one consent.

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August 13, 1973
In substitution of the regular monthly meeting, the Board of Trustees met at 9:00 a.m., on September 7, 1973, in the President’s Office of the Colorado School of Mines.

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

Absent: Messrs. Alexander, Eisenach, and Fogarty.

President McBride and Mr. W. G. Scott, newly-appointed Vice President for Business Affairs, attended the meeting.

Vouchers. President McBride asked Mr. Scott to distribute the tabulation of vouchers paid during the month of August. The listing was reviewed, and several suggestions were made for further clarification and benefit to the Board in future reviews.

Previous Minutes. The minutes of the meeting held on July 13, 1973 were approved.

Election of Treasurer. Taking note of the retirement of Mr. Garnett Steinhauer, it was moved, seconded, and unanimously passed that Mr. W. G. Scott be elected Treasurer of the Board.

Centennial. President McBride read the following telegram into the minutes:

THE PRESIDENT AND BOARD OF TRUSTEES
COLORADO SCHOOL OF MINES
GOLDEN, COLORADO

THE MEMBERS OF THE PHILIPPINE SECTION (MANILA AND BAGUIO) OF THE COLORADO SCHOOL OF MINES ALUMNI ASSOCIATION CONVEY THEIR WARMEST GREETINGS AND BEST WISHES ON THE CENTENNIAL INAUGURATION DAY OF OUR ILLUSTRIOUS ALMA MATER

RAOUL E. KAHN ’39

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

WHEREAS the Legislative Assembly and Governor of the Territory of Colorado on February 9, 1874 approved "an Act to establish a school of mines at or near Golden, Jefferson County,"
Colorado\textordmasculine, February 9, 1974, will mark the
100th Anniversary of the founding of the
Colorado School of Mines,

WHEREAS CSM, the initials of the School,
at this time appropriately signify "A
Century of Service to Mankind" -- the proud
record of this institution of mineral-
engineering education, whose faculty and
graduates, by their outstanding achievements,
have created and fostered a worldwide
reputation.

BE IT THEREFORE RESOLVED that the Board of
Trustees of the Colorado School of Mines,
meeting on September 7, 1973, do hereby
officially designate the period commencing
September 8, 1973, as the Centennial Year,
and do designate the anniversary of the
founding date, February 9, 1974, as
Centennial Day.

Authorizing Resolutions. The following resolu-
tions were adopted to replace Mr. Steinhauer's name as
authorized representative of the School:

RESOLVED, That the First National Bank in Golden,
Golden, Colorado, as a designated depository
of this corporation be and it is hereby
requested, authorized, and directed to
honor access to the safe deposit box when
bearing or purporting to bear the signature
or facsimile signatures of any two of the
following:

Guy T. McBride, Jr., President
W. G. Scott, Vice President for Business Affairs

and the First National Bank in Golden shall
be entitled to honor and to charge this
corporation for the payment of rental of
this safe deposit box regardless of by
whom or by what means actual or purported
facsimile signatures thereon may have
been affixed thereto, if such facsimile
signatures resemble the facsimile speci-
mens from time to time filed with the
First National Bank in Golden by the
secretary or other officer of this
corporation; and

FURTHER RESOLVED, That all previous
authorizations for signatures for this safe
deposit box are revoked effective
RESOLVED, That Guy T. McBride, Jr., President, or W. G. Scott, Vice President for Business Affairs and Treasurer each are hereby authorized, directed, and appointed as attorneys in fact for this corporation to sell, assign, and transfer the whole or any part of the capital stock of all corporations presently held or hereinafter acquired in the name of the Colorado School of Mines; and

FURTHER RESOLVED, That all previous authorizations for signatures for the transfer of stock held in the corporation's name are revoked effective September 1, 1973.

Bylaws. As continued from the July 13, 1973 meeting, the bylaws of the Board were considered. Several minor changes were made and by motion made, seconded, and passed the bylaws as appended to these minutes were approved.

Leaves of Absence. President McBride presented a request from Professor Niles E. Grosvenor that his leave of absence without pay be extended for the 1973-74 school year. Upon the recommendation of Professor Bator and Dr. Gary, and with the concurrence of President McBride, the Board approved the extension of the leave of absence.

President McBride presented a request for a leave of absence without pay for the first semester of the 1973-74 school year from Professor George R. Pickett. Dr. Holmer and Dr. Gary recommended approval and President McBride concurred in this recommendation. The Board approved a leave of absence without pay for Professor Pickett for the fall semester, 1973-74 school year.

The general philosophy of leaves was discussed. It was agreed that leaves which permit practical experience in industry enhance the ability of teaching faculty and thus benefit the School.

New Faculty Appointments. President McBride reported the following appointments:

George T. Bator
Professor of Mining Engineering and Head of Department

$21,200

Carl A. Fawcett
Director of Student Center & Student Housing

13,500

Franklin D. Schowengerdt
Assistant Professor of Physics

13,800

September 7, 1973
W. G. Scott
Vice President for Business Affairs
$22,500

Robert A. Walsh
Professor of Mathematics and Head of Department
19,000

Victor F. Yosavage
Assistant Professor of Chemical and Petroleum-Refining Engineering
14,000

Appointment of Department Heads. It was the consensus of the Board that President McBride will appoint department heads after careful consultation with Board members who are reasonably available at the time, consideration being given to the urgency of the appointment.

Dr. Joseph R. Lee, President McBride reported that Dr. Lee, former Head of Mathematics Department, who had died June 18, 1973, named the School as a beneficiary in his will to the extent of one-half of his estate.

NCA Report. As contained in the NCA report, copies of which had previously been mailed to the Board members, the School has been accredited by that agency for another ten years through the doctorate without waivers or restrictions.

In connection with the report and comments contained therein, Mr. Stockmar expressed the opinion that he felt this would be a good time to examine the plaudits received in order that we not become complacent and also to ask ourselves what we are doing about the constructive criticism.

Mr. Coors thought it would be appropriate to inquire on what basis the statement was made in the report that the reputation of the School was "on the wane."

It was agreed that a review and discussion of the NCA report would be prepared for and presented to the Board at its next meeting.

Goals and Objectives. As agreed at the July 13, 1973 meeting, it was again decided to devote a definite segment of time to discussion of goals and objectives. Because of the absence of several members at this meeting and the inability of others to devote the afternoon of this meeting to this discussion as originally hoped, an effort was made to set up an October meeting date when an entire afternoon could be so scheduled. With this in mind, those members of the Board present agreed on an all-day meeting for October 17 next.

September 7, 1973
Legislative Audit Hearing. President McBride reported there would be a Legislative Audit hearing on September 20, 1973, at 10:00 a.m., and said it would be helpful to have Trustee representation at the hearing.

Budget Hearing. Our hearing before the Colorado Commission on Higher Education and the Executive Budget Office will be at 9:00 a.m., October 10, 1973. Mr. Stockmar and President McBride consider it essential that as many Board members as possible be at this hearing.

Jack Yench Case. Copies of the Tenth Circuit decision with regard to the Yench case had been mailed to the members of the Board. This decision dealt with the petition of an individual to be relieved of the action taken by the Office of the President, CSM. The decision affirmed this part and remanded that part as to whether there had been a violation of constitutional rights because Mr. Yench had not been allowed to wear a Mickey Mouse hat at graduation. Mr. John E. Bush, Deputy Attorney General, is handling the case for the School.

The Board agreed that Mr. Bush's decision not to challenge the remand procedure but to follow it vigorously be accepted.

USGS Space Offer. President McBride reported that the School is continuing to negotiate with the USGS to fill their need for space.

Dr. Gary and Dean Copeland entered the meeting at this time.

Enrollment. Dr. Gary distributed copies of a preliminary enrollment summary which indicated our FTE will be at least equal to the figures used in our budget request.

Comparative Engineering Education Costs. These costs, assembled by Dean Copeland, were discussed briefly, time being limited, and are to be mailed to Board members for their use in preparation for the budget hearing on October 10.

1973-74 Health and Accident Plan Budget. Mr. Scott presented a deficit budget in the amount of $3,000. President McBride reported that the State Insurance Commissioner has disapproved our plan, which has been in operation for some years, on the basis that the School cannot function as an insurance company, this in spite of the fact that our plan is fiscally sound and there has been built up a surplus earmarked for an infirmary. We are, therefore, in the process of negotiating with Lutheran Hospital on a per student cost and the budget

September 7, 1973
presented this day is a vehicle whereby the School can operate temporarily on the same basis we did last year.

With this understanding, the tentative budget was approved.

The question was posed: Should an attempt be made to have the law changed to permit us to operate what has proven to be a sound plan?

1974-75 School Budget. Dr. Gory presented a proposed budget request for 1974-75 in the amount of $7,856,474. Although the fundamental assumptions underlying the budget received general concurrence, the budget was not accepted as presented because of an undesirable mingling of state and non-state funds. An extension was to be requested on the date of submission to the State.

Capital Construction Budget. The capital construction budget was mentioned, but was neither fully presented nor discussed. It was understood that there were no unusual items in this budget; the only major item in fact being physical planning for the library addition in the amount of $62,549.


The meeting adjourned at 2:30 p.m.

September 7, 1973

Assistant Secretary
BYLAWS OF THE BOARD OF TRUSTEES
OF
THE COLORADO SCHOOL OF MINES

Adopted March 5, 1942
As Amended May 9, 1947
As Amended November 8, 1957
As Amended September 7, 1973

1. Principal Offices. The principal offices of the Board of Trustees shall be in the administrative offices of the Colorado School of Mines, Golden, Colorado.

2. Officers. The Officers of the Board shall be a President, Vice-President, Secretary, Assistant Secretary, Treasurer, and Assistant Treasurer. The President shall be elected at the biennial meeting of the Board and shall hold office until his successor is elected. All other Officers shall be appointed by the Board at said meeting and serve for like terms. A vacancy in any office may be filled at any regular meeting of the Board or at any duly called special meeting if notice of the intention to fill such a vacancy is included in the notice of the special meeting. The President and Vice-President shall be members of the Board. The Secretary, Assistant Secretary, Treasurer and Assistant Treasurer, may or may not be members of the Board. The Board may, at its discretion, remove at any time any officer.

3. Duties.

President. The President shall be the chief executive officer of the Board and shall perform all duties customarily delegated to the chief executive officer of the governing board of an institution of higher learning and such other duties as may from time to time be assigned to him by the Board of Trustees.

Vice-President. The Vice-President shall perform the duties and exercise the powers granted to him by the Board of Trustees from time to time. He shall perform all duties of the President in case of absence of the latter.

Secretary. The Secretary shall:

(a) Keep the minutes of the meetings of the Board of Trustees in books provided for that purpose.

(b) See that all notices are duly given in accordance with the provisions of these Bylaws and as required by law.

(c) See that the books, reports, statements, certificates, and all other documents and records required by law are properly kept and filed.
(d) In general, perform all duties incident to the office of Secretary and such other duties as may, from time to time, be assigned to him by the Board of Trustees or the President.

Assistant Secretary. At the request of the Secretary or in his absence or disability, an Assistant Secretary shall perform all of the duties of the Secretary, and when so acting, he shall have all the powers of, and be subject to all of the restrictions upon the Secretary. He shall perform such other duties as may, from time to time, be assigned to him by the Board of Trustees, the President or the Secretary.

Treasurer. The Treasurer shall:

(a) Have the charge and custody of, and be responsible for, all funds of the School and deposit all such funds in banks, trust companies or other depositories as shall be selected in accordance with the provisions of the Bylaws and applicable state laws.

(b) At all reasonable times exhibit his records to the Board of Trustees.

(c) Render a statement of the condition of the finances of the School at all regular meetings of the Board of Trustees and a complete financial report annually. Further, he shall keep and report such records as proper state officials may lawfully require.

(d) In general, perform all of the duties incident to the office of Treasurer and such other duties as may, from time to time, be assigned to him by the Board of Trustees or the President.

Assistant Treasurer. At the request of the Treasurer, or in his absence or disability, an Assistant Treasurer shall perform all of the duties of the Treasurer, and, when so acting, he shall have all of the duties of, the powers of, and be subject to all of the restrictions upon the Treasurer. He shall perform such other duties as may, from time to time, be assigned to him by the Board of Trustees, the President or the Treasurer.

4. Bond. The Board shall require the Treasurer and the Assistant Treasurer to give such bond as it may from time to time deem sufficient to protect the School against loss of funds that may come into their hands as such Treasurer and Assistant Treasurer, conditioned for the safekeeping and disbursement thereof, and they shall not pay out any of the funds which shall come into their hands as such Treasurer and Assistant Treasurer except upon the order of the President of the Board or the President of the School, in either case countersigned by the Secretary or by the Treasurer.
5. **Regular Monthly Meetings.** Regular monthly meetings of the Board shall be held at 9:00 a.m. on the second Friday of each month, in the office of the Board in the City of Golden, but at the discretion of the Board, such meetings may be held at any other time and place in the State of Colorado, provided actual notice of such time and place of meeting is given each member of the Board and the President of the School before or at the time of the meeting. Any meetings can be changed as to time, adjourned, continued, or cancelled by a quorum of the Board.

6. **Biennial Meeting.** The regular monthly meeting in June of each odd numbered year shall be the biennial meeting of the Board, at which Officers shall be elected.

7. **Special Meetings.** Special meetings of the Board may be held at any place in the State of Colorado at the call of the President of the Board, or in his absence, of the Vice-President or of any other members of the Board or of the President of the School, upon giving of not less than five days oral, written, or telegraphic notice thereof, stating the purpose of the meeting. Notice of any meeting need not be given to any members of the Board, however, who are personally present at the meeting or who shall waive notice thereof, either by signing a waiver or by signing the minutes of the meeting, whether such signature be given before, at, or after the meeting.

8. **Quorum.** At all meetings of the Board, any four members shall constitute a quorum for the transaction of business, and the vote of the majority of those present shall govern, but less than a quorum may adjourn any meeting of the Board at which a quorum is not present.

9. **Signing of Papers.** All instruments of a contractual nature and all vouchers, warrants, orders for the payment of funds, and the like shall be signed by the President of the School and countersigned by the Secretary or the Treasurer. Documents requiring execution by the Board of Trustees shall be signed by the President and Secretary.

10. **Fiscal Year.** The fiscal year of the Board shall correspond with the fiscal year of the School and shall begin with the first day of July each year.

11. **Amendments.** These Bylaws may be amended, altered, or repealed and new Bylaws made, by a vote of the majority of the Board at any regular or special meeting, provided that notice of the intention to consider revision of the Bylaws is given to each member of the Board not less than ten days prior to the meeting at which the action is to be taken.

12. **Repeal.** All previous Bylaws and parts of Bylaws in conflict herewith are hereby repealed.
CONSENT OF TRUSTEES

The purpose of this document, "CONSENT OF TRUSTEES, August 13, 1973," is to adopt certain resolutions set forth below by the Board of Trustees, Colorado School of Mines, acting as individuals and in concert, in the absence of a stated or called meeting of the Board.

The actions reflected in the resolutions are made necessary by the retirement from office with effect as of August 31, 1973 of Mr. Gurnett Steinhauer, Vice President for Business Affairs, Colorado School of Mines, and the appointment to that office, with the consent of the Board, of Mr. W. G. Scott with effect as of September 1, 1973.

The resolutions are intended to have the effect of revoking the authorization of Mr. Steinhauer's signature on accounts of the Colorado School of Mines and of authorizing the signature of Mr. Scott on all accounts, both revocation and authorization to become effective at the opening of business September 1, 1973.

Therefore, the Trustees of the Colorado School of Mines do adopt the following resolutions and order that they be noticed as necessary to the custodians of said accounts:

RESOLVED, That the COLORADO NATIONAL BANK OF DENVER, Denver, Colorado, as a designated depository of this corporation be and it is hereby requested, authorized and directed to honor, effective September 1, 1973, all checks, drafts or other orders for the payment of money drawn in this corporation’s name on the accounts listed below (including those drawn to the individual order of any person or persons whose names appear thereon as a signer or signers thereof) when bearing or purporting to bear the signatures or facsimile signatures of the following:

Guy T. McBride, Jr.  President
W. G. Scott  Vice President for Business Affairs

and the bank shall be entitled to honor and to charge this corporation for all such checks, drafts or other orders for the payment of money, regardless of by whom or by what means the actual or purported facsimile signature or signatures resemble the facsimile specimens from time to time filed with the bank by the secretary or other officer of this corporation; and

FURTHER RESOLVED, That all previous authorizations for signatures on checks or drafts and for deposits are revoked effective September 1, 1973.

Savings Accounts
CSM Dorn System Repair & Replacment Reserve 203477
CSM Dorn System Bond & Interest Sinking Fund 197286
CSM Housing System Repair & Replacment Reserve 233648
CSM Housing System Bond & Interest Sinking Fd 231791

August 13, 1973
RESOLVED, That The First National Bank in Golden, Golden, Colorado, as a designated depository of this corporation be and it is hereby requested, authorized, and directed to honor, effective September 1, 1973, all checks, drafts or other orders for the payment of money drawn in this corporation's name on the accounts listed below (including those drawn to the individual order of any person or persons whose names appear thereon as a signer or signers thereof) when bearing or purporting to bear the signatures or facsimile signatures of the following:

Guy T. McBride, Jr.  President
W. G. Scott  Vice President for Business Affairs

and The First National Bank in Golden shall be entitled to honor and to charge this corporation for all such checks, drafts or other orders for the payment of money, regardless of by whom or by what means the actual or purported facsimile signature or signatures thereon may have been affixed thereto, if such facsimile signature or signatures resemble the facsimile specimens from time to time filed with The First National Bank in Golden by the secretary or other officer of this corporation; and

FURTHER RESOLVED, That all previous authorizations for signatures on checks or drafts and for deposits are hereby revoked effective September 1, 1973.

Checking Accounts
CSM Athletic Asso. Revolving Fund 21-08912
CSM Dorm System Revenue Fund 21-39225

Savings Accounts
CSM Restricted Fund 40-71527
CSM Associated Student Health & Accident 40-71519
CSM Athletic Association 40-79254

RESOLVED, That the funds of the undersigned Colorado School of Mines be and the same are hereby authorized to be paid to

Savings Account
Clark B. Carpenter Award Fund 3494

in THE GOLDEN SAVINGS AND LOAN ASSOCIATION and that said institution be and it is hereby authorized to pay withdrawals until further written notice to it signed in the name of this organization by any two persons, whose signatures appear on signature cards, i.e.,

Guy T. McBride, Jr.  President
W. G. Scott  Vice President for Business Affairs

Said institution further is authorized to accept a pledge of all or any part of said account as security for any loan made by it to said organization which shall be executed in the name of said organization by the signatory parties designated in the preceding sentence. The institution is authorized to supply any endorsement for the undersigned on any check or other instrument tendered for this account and it is hereby relieved of any liability in connection with collection.

August 13, 1973
of such items which are handled by it without negligence and it shall not be liable for the acts of its agents, subagents or others or for any casualty. Withdrawals may not be made on account of such items until collected, and any amount not collected may be charged back to this account, including expense incurred, and any other outside expense incurred relative to this account may be charged to it.

RESOLVED, That the following officers of the School be, and they are hereby authorized in the name of this corporation, to collect, discount, negotiate, endorse and assign all checks, drafts, notes and other negotiable or non-negotiable instruments payable to this company, or in which this company has an interest, and to draw, sign and deliver, in the name of this corporation, checks or drafts against the funds of this corporation on deposit in GOLDEN STATE BANK, Golden, Colorado, effective September 1, 1973:

Guy T. McBride, Jr. President and
W. G. Scott Vice President for Business Affairs

FURTHER RESOLVED, That the following officers of the School be, and they are hereby authorized to borrow, on behalf of this corporation, from time to time, from Golden State Bank, Golden, Colorado, such sums of money as they may deem necessary or advisable, and in the name of this corporation, to execute and deliver its obligations evidencing any sums so borrowed, bearing such dates payable at such times, with such rates of interest and containing such other terms and provisions as said Bank may require, effective September 1, 1973:

Guy T. McBride, Jr. President and
W. G. Scott Vice President for Business Affairs

FURTHER RESOLVED, That the officers named in the last foregoing resolution be, and they hereby are, authorized to pledge, transfer, assign, endorse and deliver to Golden State Bank, Golden, Colorado, as security for the repayment of any sums so borrowed, any of the bonds, stocks, bills or accounts receivable, or other securities of this company, upon such terms as may be required by said Bank;

FURTHER RESOLVED, That for the purpose of deposit in the account or accounts of this corporation with Golden State Bank, Golden, Colorado, any officer of this company may endorse, sign or deliver on behalf of this corporation, any checks, orders or other evidence of indebtedness for the payment of moneys payable to the order of this corporation;

FURTHER RESOLVED, That the authority of the aforesaid officers to perform each and all of the powers conferred by the foregoing resolutions shall continue until notice, in writing, terminating such authority, shall be served upon Golden State Bank, Golden, Colorado, and shall be noted upon the certified copy of such resolution delivered to said Bank.

Checking Accounts
CSM Imprint Account 41-210-0
CSM Housing System Revenue Fund 40-421-2

Savings Accounts
CSM Restricted Fund -02 467 8 CSM Chas. P. Wegeforth Mem.-02 660 4
CSM Student Loan Fund-02 474 1 CSM Edwin E. Hand Endowment -04 002 4
CSM Guggenheim Legacy-04 702 4 CSM Assoc.Stu Health & Acc. -03 079 2

August 13, 1973
RESOLVED, That the WACHOVIA BANK & TRUST COMPANY, Winston-Salem, North Carolina, as a designated depository of this corporation be and it is hereby requested, authorized and directed to honor, effective September 1, 1973, all checks, drafts or other orders for the payment of money drawn in this corporation's name on the accounts listed below (including those drawn to the individual order of any person or persons whose names appear thereon as a signer or signers thereof) when bearing or purporting to bear the signatures or facsimile signatures of the following:

Guy T. McBride, Jr.  President  
W. G. Scott  Vice President for Business Affairs

and the bank shall be entitled to honor and to charge this corporation for all such checks, drafts or other orders for the payment of money, regardless of by whom or by what means the actual or purported facsimile signature or signatures thereon may have been affixed thereto, if such facsimile signature or signatures resemble the facsimile specimens from time to time filed with the bank by the secretary or other officer of this corporation; and

FURTHER RESOLVED, That all previous authorizations for signatures on checks or drafts and for deposits are revoked effective September 1, 1973.

CSM Student Loan Fund  1-018-387  
NDSL Fund  5-018-385

August 13, 1973
In affixing his signature to this CONSENT OF TRUSTEES in the space provided, each Trustee indicates approval and acceptance of the above resolutions as if adopted at a regular or special meeting called for the purpose. Each Trustee further agrees that any number of copies of this consent may be separately executed by Trustees and all copies so executed shall collectively constitute one consent.

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August 13, 1973
In substitution of the regular monthly meeting, the Board of Trustees met at 9:00 a.m., on October 17, 1973, in the President's Office of the Colorado School of Mines.

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

President McBride and members of the administrative staff attended the meeting.


Mr. Scott reviewed the new format employed to list vouchers paid for the preceding month. After discussion it was moved, seconded, and passed that the listing of vouchers paid during the month of September be approved.

Previous Minutes. The minutes of the meeting of September 7, 1973 were approved.

George R. Brown Medal. President McBride reported to the Board that the Class of 1922, of which Mr. Brown is a member, has undertaken to provide funds to purchase from time to time a suitable gold medal to be awarded by the Board in Mr. Brown's honor. The medal is to be given to a person who has rendered distinguished service in or to the field of engineering education. Funds in the amount of $5,000 are available. Mr. Brown was reported to be pleased to have this medal established in his honor.

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

WHEREAS the Class of 1922 wishes to honor classmate and distinguished citizen, George R. Brown; and

WHEREAS the Class of 1922 proposes to establish a gold medal award in the name of Dr. Brown so to honor him; and

October 17, 1973
WHEREAS this medal will from time to time upon
the determination of the Board of Trustees be
awarded to a person who has rendered distinguished
service in or to the field of engineering education,
preferably but not limited to persons who are
alumni, faculty, or otherwise closely connected
to Mines; and

WHEREAS the Class of 1922 has subscribed funds in
the principal amount of at least $5,000, income
from which will be used to pay for medal;

THEREFORE BE IT RESOLVED that the Board of Trustees
accept from the Class of 1922 funds as cited with
the intention of carrying out the stated wishes of
the Class of 1922 to reflect honor on Dr. George R.
Brown and the Colorado School of Mines.

AND BE IT RESOLVED FURTHER that the Board of
Trustees express appreciation for this fitting
tribute to an outstanding alumnus.

Distinguished Achievement Medals. President
McBride reviewed the past practice of awarding a limited
number of medals each year. He said he had this matter
on the agenda at this meeting to ascertain whether the
Board wished to consider giving a larger number of medals
this Centennial year, as was done at the 75th Anniversary.
It was pointed out that when the large number of medals
was awarded at the 75th Anniversary the medal was a rather
new award and there were quite a few alumni who deserved
to be so honored. The matter of number was deferred
until the committee had an opportunity to review the present
situation, but it was pointed out both that keeping the
number low had some merit in that it enhanced the honor of
the award and that there was not known to be a substantial
backlog of clearly deserving candidates.

Mr. Stockmar appointed Mr. Eiserach chairman of
the Board committee to screen candidates and Mr. Alexander,
Dr. Fogarty, and Mr. Reeves members of the Committee.

New Faculty Appointments. President McBride
reviewed for the information of the Board new appoint-
ments to the faculty as follows:

David R. Cole
Adjunct Associate Professor of
Mining Engineering (fall semester) $1,500

Lawrence A. Garfield
Adjunct Associate Professor of
Mining Engineering (fall semester) 1,500

Niles E. Grosvenor
Adjunct Professor of Mining
Engineering (fall semester) 1,500

October 17, 1973
Legislative Audit Committee Hearing. For the information of those unable to be present, the hearing of September 20 was reviewed. President McBride stated that there was nothing in the audit report which he or the Committee believed to represent misjudgment or error on the part of the administration. Mr. Scott said some progress can be made toward the elimination of the repeated criticisms with our present resources. We have undertaken a thorough review of our entire business procedure, and he is confident an improvement in future audit reports can be effected.

Hearing, CCHE/EBO, 1974-75 Budget. The hearing of October 10 was reviewed. The EBO (Executive Budget Office) is recommending an increase in our tuition from $228 resident and $911 nonresident (per semester) to $237 resident and $968.50 nonresident.

We have submitted a budget in the amount of $7,876,504 and the EBO is proposing a very preliminary budget in the amount of $7,266,957. Much work and negotiations are in prospect.

Joint Budget Committee Hearing. Our hearing before the JBC is tentatively scheduled for November 27, 1973 at 4:00 p.m. Mr. Stockmar stressed the importance of Board attendance at this hearing.

Laubach Complaint. Under date of September 20, 1973 all present members of the Board, all who were members of the Board in the spring of 1971, and Dr. Schlechten, and Dr. McBride were served in the Laubach case. Professor Laubach is asking damages claiming mistreatment in the matter of his teaching contract not being renewed. The complaint is being handled by the Attorney General’s office.

Goals and Objectives. Mr. Stockmar opened this subject by stating that in view of the importance of this general subject, it had been planned for some time to set aside the bulk of an all-day meeting to discuss the goals and directions open to the Colorado School of Mines. He said no action is intended to be taken this day but since some of the problems may relate to individuals and to sensitive areas, he asked the press to be prepared to excuse itself following the staff reports. Dr. McBride said the reports had been designed to be given in open session.

North Central Association Report. President McBride reviewed the matter of the NCA general accreditation visit April 2-5, 1973. The School was, as a result of this visit, accredited for another ten years, and a report was made by the visiting committee on the strengths and weaknesses of the School. Dean Copeland had extracted from this report some 15 problem areas and had submitted

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to the faculty and administrative staff a questionnaire
to measure the feelings and attitudes of the faculty in
these areas. Dean Copeland had then prepared a summary
of the replies. He reported that out of 166 questionnaires
distributed, 83 had been returned with 237 additional
specific comments.

Dean Copeland gave an oral review of the summary.
Mr. Stockmar requested that a copy of all comments made
by the faculty be included in the written report to be
furnished the Board.

Dean Copeland's report provoked an extended
discussion on several of the subjects mentioned in the
report and in the presentation, beginning with student
counseling. It was recognized that this problem of
adequate counseling was not peculiar to the School of
Mines. But it was also recognized to be a problem of
primary concern.

Major concerns of some members are the develop-
ment of verbal skills and, if not the inculcation of a
broad concept of the psychology of the human mind, at
least a concerted effort to see that efforts to achieve
a broad view of the place of engineering in human life
not be stifled while students are studying here.

Mr. Stockmar itemized sections contained in the
NCA report which he felt merited concerted attention.
This list has been prepared in the form of a memorandum
to the Board and is appended to these minutes.

The values of the NCA report were noted, not the
least of which was that it stimulated thinking about the
general and particular aspects of the School. A suggestion
was made that the main portion of each Board meeting be
devoted to one particular problem rather than dividing
time and attention among several.

Comparative Costs of Engineering Education.
Dean Copeland reviewed a tabulation of cost comparisons
among public engineering schools within the State of
Colorado. He stated that in his opinion it was difficult,
if not impossible, to obtain valid comparisons and he
thought perhaps such efforts were counter-productive. It
was generally agreed that rather than agonizing over cost
comparisons, Mines should concentrate on selling its
product.

Faculty Productivity. Dr. Gary reviewed the
different guidelines used to measure faculty productivity
and distributed tabulations of those used for engineering
in lower and upper division instruction.

The meeting adjourned at 2:00 p.m.

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Secretary
1. Minutes. Importance of this particular meeting.

2. Better version of Copeland memo, together with listing of all comments made by faculty in response to questionnaire. Provide a full listing of all the concerns (15 in questionnaire), those mentioned by Mr. Stockmar, and those listed in Borgmann report.

3. List of unexpurgated alternatives.

4. List of select alternatives with strategic adaptations.
- Option X: What classes?
- Option Y
- Option Z

- Affiliated CU (how about CSU)
- CSU etc. of pupil fee state

- Grading in small units — National School of Music
- Regional sites of National School of Music — how many?
- No of its much difference — National
- Federal funding for CSU but not National

- Connect to graduate institutions

- Combination of state and private support (does it work?)

\[ \text{(2)} \quad \text{federal} \quad \text{private} \quad \text{all others} \]

- Endowments or income sources
- Eliminate graduate students
- Undergraduate — federal support, private
- Other revenue or funding

- Energy on minority teachers / pay all teachers

Connect to broad purpose.
CSM Objective Review

1. Recruit
   a. Increased enrollment to 2000+ to meet demand and better utilize resources,
   b. Competitive enrollment to improve student quality,
   c. Increased fraction of enr. enrollment to say 50% to improve quality and increase tuition income

2. Faculty compensation - equalize and better CU/BSU/NIU norms
   - Increase faculty minimum modestly by adding outstanding people to increase breadth and reputation - probably through named professorships

3. State budget to maintain or increase the above under inflationary conditions

4. Expand formal contacts abroad, foreign enrollment (dual) 

5. Buildings
   a) Expand Library and its holdings
   b) Replace Classroom of 15 students with building

6. Curriculum - add Meteorology, 
   "..." BS degree program..."
Questions

1. Simple replacement cost
2. Time to rebuild as is plant faculty
3. Time to build options plant faculty
4. Other Uniques
Undergraduate - Colo
Graduate - US
Graduate - regional
All Regional School

One of Group of Regional
(take doing best thing)

Oil Shale Tax
Energy Tax
Bond Sales Secured
by student debt

Tuition, Dormant + Notes
Self Notes or Loans

Private side of Tuition
guarantees
Faculty Profit motive
Shut Down
Option 2
Option 3

C.U. Affiliate
General Purpose Inst.
COLD ENG. Center

U.S. No. 1
U.S. one of 10
U.S. one of 3 centers
U.S. some support

Private endowment
Private + Col support
Private + U.S. support
Private + U.S. + COLD

UN endowment
Foreign endowment
Foreign + U.S.
Foreign + COLD
Foreign + U.S. + COLD.
Mr. Stockmar:

Various futures for the School.

1. We should become a part of CU.

See if CSM could be made the center of engineering and incorporate all engineering work done by other schools.

We should recognize the energy crisis and the fact that the time is here, or past, when we should give consideration to asking that this be made a national school of mines.

We could convert mineral engineering education into a national enterprise where there are 4, 6, 8 existing institutions that would be treated in this way; use school of Mines concept with 10 or more centers.

Maybe we should attempt somehow to retain what we have and have a liberal arts school - a general purpose institution.

Or a regional school of Mines, say for Rocky Mountain states, where regional funding is brought to bear but not with national dominion.

All of these would require major undertaking in Washington to obtain funding. It is possible that people in Washington are progressing along these lines without our being aware of it.

Or we could try to convert this institution into a privately-endowed institution. Or private endowment plus federal interest.
Another combination of funding would be: state, private, federal.

Or a combination of U.S., foreign, and private funding.

Perhaps we should mention these ideas to the JBC as an incentive for better funding in the immediate future.

Should we concentrate on being the best undergraduate school; or should we consider emphasizing and attempting to be the best graduate school in our area.

It seems to me that we have never really looked at other means of financing this institution.


I can visualize a structure properly financed where we could significantly increase our enrollment by having the students pay tuition of $2,000 but have a plan whereby the student actually pays $500 per year, plus a promissory note at six percent payable in the next 20 years.

Also we should face up to the fact that Colorado collects on mineral resources in State and we should ask for a royalty - perhaps on the oil shale.

The name of the School may turn some people away. (Provincial, says Mr. Reeves.)
Mr. Stockmar's conclusions:

We should reject Option 1 of Brogmann Report.

We should not become branch of CU.

Our greatest need is to attract and keep highly qualified young people. We should go to other states to recruit. (Send teams out to neighboring states and fly high school counselors in for orientation session, C&M footing bill. suggested by Mr. Bradley.)

Dr. Alter: Higher education is in bad shape. In order to have best chance at survival an institution must be doing something exciting, creative, innovative. It is no longer enough to be doing the same thing others are doing. Unless novel ideas are generated before long, we are in real trouble.

Mr. Stockmar: Just told that Denver University is closing its engineering school in June, 1978. We should be able to capitalize on this.

Mr. Stockmar to make contact immediately with Mr. Aksel Neilson, Chairman of their Board. Dr. McBride to call Chancellor Mitchell. Offer to help in any way. Contact students? Make direct approach to students.

United Nations University - long in talking stage. (This subject brought up by Dr. Alter.)
We should talk to those in Washington (executive branch perhaps more receptive/effective in our case than legislative) who could talk about a national school of mines.

We must establish need. We must document need.
The Board of Trustees met in regular session at 10:00 a.m., November 9, 1973, in the Board Room of the Colorado School of Mines.

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

Absent: Mr. Eisenach.

President McBride and Mr. Scott attended the meeting.

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

Previous Minutes. Upon motion made, seconded, and unanimously passed, the minutes of the meeting held on October 17, 1973 were approved.

Budget Hearing. President McBride called the attention of the Board to the change in the date of the CSM hearing before the Joint Budget Committee to December 4, 1973, 10:00-11:00 a.m., in Room 341 Capitol Building.

1974-75 Budget Request & EBO Recommendations. President McBride called the attention of the Board to a document under date of October 31 last which presents a comparison and analysis of Mines 1974-75 budget request. President McBride stated that the EBO figures are expected to be substantially changed prior to our December 4 hearing.

USGS Space Lease. President McBride reported that negotiations were continuing with the USGS for the lease of campus space. The space offered to the USGS in the Old Gym has been refused by the GSA. We are currently negotiating with them for temporary use of some space in the Green Center and Berthoud Hall and some long-term arrangement for a leased building on or adjacent to the campus.

New Faculty Appointment. President McBride reported a new appointment as follows:

Christopher Hall
Research Associate, Basic Engineering
(beginning November 1, 1973)
Professor John R. Hayes. President McBride reported that Professor Hayes wishes to retire early, (for health) at the end of the present school year. President McBride said he has accepted the resignation.

Mr. Stockmar asked that President McBride convey to Dr. Hayes the deep appreciation of the Board for his dedication and contributions.

Senior Day. President McBride reviewed the situation as it has developed since the Board banned Senior Day in 1952. He said there have been "sneak" days practically every year, with varying activities, some harmless and a few resulting in untoward incidents. President McBride recommended that the total ban on such spring semester holidays be lifted and a more moderate ruling be made by the Board.

Upon motion made, seconded, and unanimously passed, the following policy was approved:

Plans for Senior Day, if it is to be held, must be presented in substantial detail, not including the proposed date of the event, to the Vice President for Academic Affairs for approval. Students who participate in Senior Day activities other than those approved in broad outline under this policy shall be subject to disciplinary action in accordance with the Student Handbook.

Claims Committee. President McBride called the attention of the Board to the fact that the faculty bylaws set forth the membership of the Claims Committee (student health and accident program) and specify that faculty representatives be appointed by the Board.

To expedite the matter at this time, the Board confirmed appointments to the Claims Committee as listed below and asked President McBride to urge the faculty to amend its bylaws to make these appointments an administrative matter rather than a Board concern.

Appointments confirmed:

Dr. Richard C. Robinson
Term to expire 1973-74

Dr. Ardel J. Boes
Term to expire 1974-75

Dr. Donald W. Gentry
Term to expire 1975-76

November 9, 1973
Institute for Extractive Metallurgy. President McBride reviewed the situation regarding the Institute which has been funded through grants made to the CSM Foundation by Dr. W. J. Kroll, now deceased. Now that we are separating Foundation from School activities, this Institute is the first of the counterpart organizations needed to be established to match funds which now exist in the Foundation. President McBride said he was recommending that the Institute, now to be renamed the W. J. Kroll Institute for Extractive Metallurgy, be made a component part of the Colorado School of Mines and recommended the following resolution be adopted:

WHEREAS the Institute for Extractive Metallurgy Fund has long been established within the Colorado School of Mines Foundation, Inc., through the foresight and generosity of Dr. W. J. Kroll, and continued support for the Institute is indicated; and

WHEREAS past expenditures for the direct benefit of the Colorado School of Mines have been made directly from this fund by Colorado School of Mines Foundation, Inc., future expenditures made for the direct benefit of the school must be reflected upon the financial records of the School; and

WHEREAS the Board of Trustees of the Colorado School of Mines has therefore determined that it wishes to establish the W. J. Kroll Institute for Extractive Metallurgy within the Colorado School of Mines and to appoint a Director to supervise, subject to the approval of the administration of the Colorado School of Mines, the activities of the Institute: Therefore be it

RESOLVED, That the Board of Trustees of the Colorado School of Mines hereby directs as of this date the establishment of the W. J. Kroll Institute for Extractive Metallurgy as a component part of the Colorado School of Mines to promote education and research in extractive and process metallurgy; and be it further

RESOLVED, That, being in concurrence with the intent and desire of the donor, the Board of Trustees of the Colorado School of Mines does hereby approve the appointment of Dr. A. W. Schlechten, Alcoa Foundation Professor of Metallurgy, to serve as Director of the W. J. Kroll Institute for Extractive Metallurgy from this date to September 1, 1985,

November 9, 1973
subject to his ability to competently perform such duties, notwithstanding that the term of this appointment will extend beyond his normal mandatory retirement date; and that the duties of the Director shall be as assigned by the President of the Colorado School of Mines and that expenditures made by the Institute will be approved by the President of the Colorado School of Mines or his designee.

Upon motion made, seconded, and unanimously passed, the resolution was adopted by the Board.

The Board asked that President McBride convey to Dr. Schlechten its congratulations and appreciation for the establishment of this Institute at Mines.


It was requested by the Board that at a subsequent meeting, these reports be reviewed once item by item for a better understanding. It was further requested that the applicable items in these monthly reports be related to budget figures.

CSM Objectives and Goals. Mr. Stockmar said that in line with discussions at the October Board meeting, considerable work has been done in advancing our request for support in Washington, which only coincidentally comes at the time of President Nixon's energy crisis speech. Our primary thrust will be that we are a significant producer of the manpower to alleviate the present energy and impending material crises. Mr. Stockmar said he and President McBride will be glad to receive input from other members of the Board for the design of our various major presentations. A series of appointments has been arranged with the Colorado congressional delegation and others in Washington such as Governor Love. Mr. Stockmar and President McBride are going to be meeting with these people.

November 9, 1973
Agenda. Further in line with the October meeting discussion, it was directed that President McBride select one major item from among the North Central concerns for the agenda each month, furnish background material for mailing with the agenda, and thus enable the Board to direct time and attention to a single item rather than to expend its time less effectively on subjects chosen more randomly.

Length of Meeting. It was requested that a time of adjournment, or a close approximation of time of adjournment, be established so that Board members can make plans for that day.

The meeting adjourned at 12:30 p.m.

Assistant Secretary

November 9, 1973
Golden, Colorado
December 14, 1973

The Board of Trustees met in regular session at 9:30 a.m., December 14, 1973, in the Board Room of the Colorado School of Mines.

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

Absent: Mr. Eisenach.

Mr. Stockmar, President of the Board, presided.

President McBride and Mr. Scott attended the meeting.

Previous Minutes. The minutes of the meeting held on November 9, 1973 were approved.

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

Date of January Meeting. It was agreed that a January Board meeting in substitution of the regular meeting be held the afternoon of January 4, 1974 following the annual hearing before the Joint Budget Committee. The Board meeting will be held in Denver.

Time of Meetings. Upon motion made, seconded, and unanimously passed, the starting time for future regular meetings was set at 9:30 a.m.

Joint Budget Committee Hearing. The hearing before the JBC has been postponed to January 4, 1974, 10:30 a.m. to 12:00 noon; meeting to be in same location, 341 Capitol Building. President McBride said special invitations had been sent to the Jefferson County legislators. The president of the Associated Students and several other students will attend, as will at least one faculty representative. It was agreed that representation from industry would be of value to emphasize the importance of the production of mineral engineers to the solution of the energy crisis. The members of the Board undertook the task of obtaining such representation from industry.

December 14, 1973
New Faculty Appointments. President McBride reviewed the new appointments as follows:

David Warren Satterly  
Data Processing Officer  
$18,000 per 12-month year

Michael B. McGrath  
Chief Consultant for the Computing Center  
$16,000 per 9-month year

Jerome Morse  
Associate Director for Energy Research (Acting)

Fun-Den Wang  
Associate Director for Earth Mechanics and Excavation Engineering Research

With regard to the latter two appointments, which carry no compensation, President McBride reported that we are setting up within the School (Office of Research Services) entities to seek and accept research in specific fields. These two appointees have full-time compensation from their other responsibilities but it is felt the titles as listed will enhance their ability to gather new research funds.

Washington Trip. President McBride reported on the trip he and Mr. Stockmar made to Washington the latter part of November. He reported they had seen Senator Dominick here before they went; in Washington they saw Senator Haskell, Congressman Brotzman, Congressman Evans, Governor Love and his assistant, Mr. McKivitt. They also had an extensive interview with Assistant Secretary of the Interior, Steven Wakefield.

President McBride said they had attempted to make known to those persons the importance of planning for the production of the manpower necessary to solve the present energy crisis and the impending material crisis. They tried very hard to impress upon the people they saw in Washington the lead-time which was necessary for the development of engineers and production people to handle the solution to our national and international problems.

It seemed apparent to President McBride and Mr. Stockmar that this lack of available manpower was not being considered to any substantial degree.

Admissions. President McBride gave a report of the admissions efforts and distributed copies of advertisement recently placed in the Wall Street Journal. As a result of this ad there have been 50 contacts made to our Admissions Office to date. At a later time in the meeting, the matter of admissions efforts was reopened, and it was agreed that ads would be placed in most Colorado newspapers, including perhaps high school papers. These ads, as well as the WSJ ad, are to be paid for by CSM Foundation.

December 14, 1973
It was further reported that we are in close contact with approximately 30 students from the D.U. School of Engineering. We have been receiving important guidance from a New York public relations firm and we have discussed at length our recruiting strategy. We have considered employing outside organizations to survey our admissions procedures.

It was pointed out that a student who is satisfied he has made the right choice in schools and careers must be the best recruiting agent available. President McBride distributed copies of a letter which is being sent to each student at his home during the Christmas holidays. The letter asks that each student attempt to contact friends to interest them in coming to Mines to prepare to become involved in solving energy and materials problems.

Monthly Reports. The Board members were given copies of the monthly reports as follows: Balance Sheet, November 30, 1973; Summary for Budget Appropriation & Disbursements, as of November 30, 1973; Budget Summary for Open End Bond Issue, November 30, 1973; Budget Summary for 1966 Bond Issue, November 30, 1973; Budget Summary for State Rental Properties, November 30, 1973; Budget Summary for Health and Accident Plan, November 30, 1973; Budget Summary for CSM Athletic Association, November 30, 1973; Budget Summary for Associated Students, November 30, 1973; and Office of Research Services Contract Funds, as of November 30, 1973.

Mr. Scott answered questions regarding the correlation of these reports to the budget figures.

Budget Request. There followed a lengthy discussion of the desirability of prediscing our budget request on an increased enrollment or of waiting to see what our enrollment actually is and if increased, seeking a supplemental appropriation. The pros and cons were discussed, but in the end it was left to President McBride's judgment with the understanding that the cost of a specific number of additional students be presented in a cogent way at the hearing.

Professional Degree. There was distributed a progress report made by the Professional Degree Committee to the Curriculum Committee under date of December 3, 1973. This report was to be read by the members of the Board in anticipation of action at the March or April Board meeting, depending upon the progress of necessary internal approvals.

Leave of Absence. President McBride presented a request from Dr. Robert D. Reed for an extension of the leave of absence granted him January 1, 1973. Dr. Reed is at this time a Hearing Examiner for the New York Public Service Commission. His leave is without pay.

December 14, 1973
Upon motion made, seconded, and unanimously passed, the leave of absence without compensation was extended to August, 1974.

Academic Leave. President McBride presented to the Board a request from Dr. Ramon E. Bisque for an academic leave for the 1974-75 school year at one-half pay. Dr. Bisque intends to devote the year to conducting seminars and workshops for high school earth science teachers on the use of a major revision of a textbook which he has recently prepared.

Upon motion made, seconded, and passed, the leave for Dr. Bisque for 1974-75 at one-half pay was approved on the basis of the value of this activity to the School, especially as regards recruiting.

Candidates for Degrees. President McBride distributed lists of candidates for degrees as recommended by the faculty.

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

BACHELOR OF SCIENCE (MINING ENGINEERING)

Bentley Fleming Badgett  
Lance Russell Barron  
William Pierrepont Bartow  
Michael Andrew Benza  
Richardo Moreno Campoy  
Gordon William Clark  
Ronald Douglas Drake  
Fred William Fest, III  
Alan Richard Gadberry  
James Joseph Gusek  
Timothy Michael Hawkes  
James Ronald Hitt  
David Alan Jacoby  
Milton Evan Meacham  
Vaney George Plocus  
Gary Wayne Shotton  
David Randal Smaldone  
Wilfred Snow Streeter

ENGINEER OF MINES

William Chirnside  
Charles Bayard Hart

BACHELOR OF SCIENCE (METALLURGICAL ENGINEER)

Carlos Quintini Alizo  
William John Arbogast, Jr.  
Daniel Loren Blakeman  
William Eugene Brooks  
Dennis Raymond Canfield  
Ralph Edward Devison  
Stephen Joseph Harms  
John Earl Huffman  
Stanley Eugene Knaus  
Mark Vaivoda

METALLURGICAL ENGINEER

Robert Zenas Whipple, Jr.

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BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING)

Donald Taylor Brefle
Henry Omar Briceno
E. Thomas Cavanaugh
Linda Holmberg Davidson
Alexander Christian Hirtz
William Lane MacBride, Jr.
Raymond Mark Maslyn

R. Craig Myers
Mark Jonathan Pinel
Wayne Anthony Sadik
William Emil Samland, II
Douglas Grant Schellenberg
Danny Phillip Sprouse

GEOLOGICAL ENGINEER

Steven Charles Coddington

BACHELOR OF SCIENCE (PETROLEUM ENGINEERING)

Anthony Ray Barb
Douglas Alan Brown
Bruce Charles Davis
David Theodore Erickson
Michael James Flanigan
Robert Lyle Heil

Robert George Howard, Jr.
Stephen Kent Lewis
John Stephen McCatharn
William Randall Parsley
Kent Francis Perry
Gary Gene Schoonover

BACHELOR OF SCIENCE (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Kenneth W. Bissett
Michael Joseph Ferraro
Judith Kay Grange

Robert Edward Hammond
Gregory Karl Staff

BACHELOR OF SCIENCE (GEOPHYSICAL ENGINEERING)

David Hearn Friebly
Delbert Lon Hankins
John Frederick Paxton

Christopher Marc Skinner
Gerald LeRoy Starner
Michael Dee Tudor

BACHELOR OF SCIENCE (MINERAL ENGINEERING - CHEMISTRY)

Daniel Joseph Frawley
Daniel Roy Hart

BACHELOR OF SCIENCE (MINERAL ENGINEERING - MATHEMATICS)

Michael Harold Flater
Tracy Steven Galloway
Randal Grant Grauberger
Patrick Allen Ley

Edward John Meier, Jr.
Thomas Paul Porter
Stephen Bruce Westfall

BACHELOR OF SCIENCE (MINERAL ENGINEERING - PHYSICS)

John Hall Cohen
Albert Edward Mantz, Jr.

Jack Thomas Swedberg

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MASTER OF SCIENCE (METALLURGICAL ENGINEERING)

Oscar B. Gutierrez B.
Robert Leroy Hanlin
Richard A. Keesler
Deepak Malhotra
Victor Manuel Perez U.

MASTER OF SCIENCE (GEOLOGY)

Kathleen Leslie Cox
Remigio Martinez Muller
James Anthony Paschis, Jr.
Jorge H. Posada Uribe
Miguel Ramirez Lopez

MASTER OF SCIENCE (GEOLOGICAL ENGINEERING)

Rodney John Eichler

MASTER OF ENGINEERING (PETROLEUM ENGINEER)

Marco T. Castro Moure
Thomas Strenger Proehl

MASTER OF SCIENCE (PETROLEUM ENGINEERING)

Jonathan K. Peggs

MASTER OF SCIENCE (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Chit Yung Bao
Abdulaziz S. Jarbou
Kwabena Okyere Sarpong

MASTER OF SCIENCE (GEOPHYSICS)

Lawrence John Barrows

MASTER OF SCIENCE (GEOPHYSICAL ENGINEERING)

Eduardo Garcia Sandoval

MASTER OF SCIENCE (CHEMISTRY)

Mohammed Abd El-Hamid Hassan
James Patrick Sparks

MASTER OF SCIENCE (MATHEMATICS)

Daniel Garber Brooks
Robert Lewis Johnson
Christopher Allen Neil

MASTER OF SCIENCE (PHYSICS)

Kenneth E. Cope

December 14, 1973
MASTER OF SCIENCE (MINERAL ECONOMICS)

Patrick Henry Geehan
Franklin Ernest Grange II
Lomena S. M. Ibeke
Jose Luis Joves H.

DOCTOR OF PHILOSOPHY (METALLURGY)

Carlos Alberto Bottrel Coutinho

DOCTOR OF PHILOSOPHY (METALLURGICAL ENGINEERING)

Mamdouh Mahmoud El Tawil
Marco Vincenzo Ginatta
Alejandro Rodriguez Gratacos

DOCTOR OF PHILOSOPHY (GEOLOGY)

William H. Bird

DOCTOR OF PHILOSOPHY (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Gary L. Baughman
Salih Dincer
Navin Dalsukhrai Shah
Charles Russell Vestal

DOCTOR OF PHILOSOPHY (MATHEMATICS)

Timothy P. Luken

B.S. Degree in Mineral Engineering. The proposed program for a new degree in Basic Engineering, to be called a Bachelor of Science Degree in Mineral Engineering had been previously distributed. It was recognized that this degree will fill a definite need in industry and will attract students who are interested in helping to solve our present energy crisis.

Upon motion made, seconded, and unanimously passed, the new degree program was approved for transmittal to the Colorado Commission on Higher Education.

Alcoholic Beverages. The need for the adoption of a more realistic policy on alcoholic beverages was discussed.

Upon motion made, seconded, and unanimously passed, the following policy was approved, Mr. Coors abstaining.

All students at the Colorado School of Mines are expected to comply with federal, state, and local laws regarding the sale and/or use of liquor. Further, there will be no use or storage of alcoholic beverages on the campus without the expressed approval of the Administration acting for the Board of Trustees. Organizations collectively and students individually will be held responsible for any violation.

December 14, 1973
Affirmative Action Plan. The administration, with major faculty and staff help, has revised the current Affirmative Action Plan approved by the Board on August 6, 1971. This plan does not seem adequate at this time and the revised plan has been prepared which includes goals for hiring.

Several members of the Board undertook to have outside experts examine the plan with the hope of obtaining the best plan available. The item was laid over to the January meeting.

The meeting adjourned at 12:15 p.m.

Assistant Secretary

December 14, 1973