

Peter A. Scholle

\$5,000 for the spring

Adjunct Associate Professor  
of Geology

semester of the 1980-81  
academic year

Daniel T. Teitelbaum  
Adjunct Associate Professor of  
Environmental Sciences

3,000 for the spring  
semester of the 1980-81  
academic year

reappointment:

R. Theodore Hurr  
Adjunct Associate Professor of  
Geological Engineering

3,000 for the spring  
semester of the 1980-81  
academic year

Continuation of Appointments.

John D. Wright  
Part-time Instructor in  
Petroleum Engineering

6,500 for the spring  
semester of the 1980-81  
academic year

Richard C. Walker  
Adjunct Assistant Professor  
of Mathematics

2,000 for the spring  
semester of the 1980-81  
academic year

January 9, 1981

the Six Months Ending December 31, 1980. He told the Board that the

will continue to do so for the year due to the method of reporting interest expense. Operating expenses are within the range estimated. He stated that \$225,000 of the pooled investments was reinvested for 176 days at 15-1/4 percent.

Admissions. Mr. William Young, Director of Admissions, reported an increase at this time of 16% in applications received over

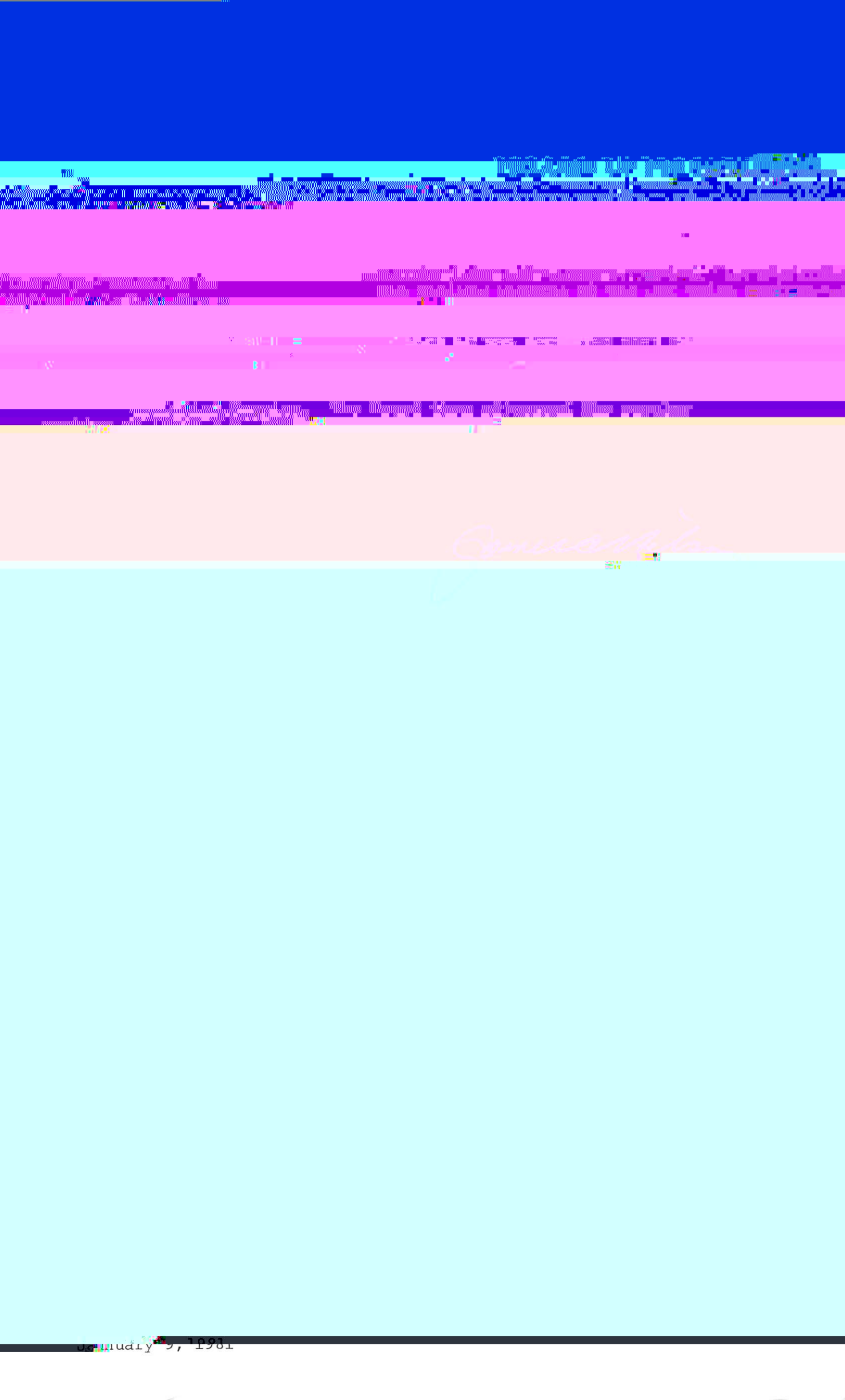
January 9, 1981

Institute opined that the Legislature is not convinced that money ought

January 9, 1981

said that we assumed that there would be an understanding of the plan after the December 15, 1980 briefing of the JBC and that we would just have to address the budget issue. But he said apparently relatively little was

January 9, 1981



*C. M. ...*

admission, and corporate areas in which he worked.

wise have been.

February 13, 1981

February 13, 1981

Change from Instructor at \$17,000 for fall semester to Assistant Professor at \$20,500 for spring semester of the 1980-81 academic year. Dr. Frost received the Ph.D. Degree from Colorado School of Mines in December 1980.

Karen B. Wiley  
Assistant Professor of Humanities  
and Social Sciences

Change from Instructor at \$16,000 for fall semester to Assistant Professor at \$17,000 for spring semester of the 1980-81 academic year. Request for change is based upon the conferring of Ph.D. Degree by University of Colorado in December 1980.

Mineral Economics Department Head. Dr. Mueller reviewed the

recommends, President McBride concurring, the appointment of Dr. Charles W. Berry to this position. He further stated that Dr. Berry has had substantial experience in the AMAX organization and is well qualified for the position.

It was moved, seconded and passed to confirm the appointment of Dr. Berry.

Nathan M. Avery Professorship in Petroleum Engineering. Dr. Mueller informed the Board of the appointment of Professor Bill J. Mitchell to be the Nathan M. Avery Professor of Petroleum Engineering for the 1981-82 academic year at a salary of \$42,500 per academic year. In response to an inquiry by Mr. Coors, Dr. Mueller said that Professor

Mitchell will relinquish the Grace Professorship.

February 13, 1981



related work experiences. The program is now in its third full year of operation. He highlighted the three points of each program--Co-op and Placement.

Mr. Coors asked how this affects our headcount. Dr. Chevront

responded that Co-op students are considered full time for insurance purposes, but are not considered full-time in headcount.

Discussion followed, during which Mr. Spaulding asked the Board to confirm its intention to continue the CSM Cooperative Education Program

at the same or an increased level after federal financial assistance ends.

February 13, 1981

in the future will be more rigid than that which is contained in the Handbook.

It was moved, seconded and passed to approve the requests for

February 13, 1981

toto.

memorandum and maps explaining park use request were sent to the Board for its consideration.

followed, during which it was

discussed the

the Board's

the

the

the

the

the

  
Secretary

February 13, 1981

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

Charles W. Berry Head of Department and Professor of Mineral Economics	\$44,000 for the 1981-82 academic year
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Adjunct Associate Professor of	semester of the 1980-81
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Engineering

Frank D. Iannella Instructor in the Department of Humanities and Social Science	8,000 for the spring semester of the 1980-81 academic year
Charles R. Kroll Assistant Professor of Physical Education and Athletics	6,134.52 for the spring semester of the 1980-81 academic year
Thomas B. Reed Adjunct Associate Professor	1,800 for the spring semester of the 1980-81

or Basic Engineering	academic year
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March 6, 1981

students, and of resident ~~and non~~ resident students, we may need to alter

our existing admissions policy, perhaps even going as far as to

of the building and, assuming that the state is willing to do so, that we move EMI into Chauvenet Hall and defer a decision on the Alumni Association's proposal.

Colonel Leckie of the Alumni Association said that he shares

President McBride's concern regarding the costs involved and the

Association's ability to maintain its share of the building. He stated

Foundation for assistance. The Association is willing to move into Chauvenet on a "tenant beware" basis.

Discussion followed, during which it was moved, seconded and passed to allow EMI to move into Chauvenet Hall on a "tenant beware"

basis. We will work with the state concerning its view of our obligations with regard to the building.

March 6, 1981

changing the color of the GSA crest and sign  
to be dark blue in

that this is the last regularly scheduled meeting for two Trustees,  
Mr. Stockmar and Mr. Gray



ary

March 6, 1981



to fill that seat and that the appointment will be announced at an appropriate time.

appointments to the faculty as follows:

Nils Christensen  
Visiting Professor of  
Metallurgical Engineering

May 1 through July 31,  
1981 at no salary

Associate Professor of  
Mining Engineering

March 16, 1981 for the  
balance of the 1980-81  
academic year at the rate  
of \$26,600 AY

April 9, 1981

financial plan.

Dormitory Financing. Mr. Scott reported that Boettcher and Company Investment Bankers is working on the long-term financing of the existing new dormitory. He said that the issue will be addressed at greater length at the May Board of Trustees meeting.

Steam line. Mr. Scott said that he is awaiting proposal from

to have one plan for all of higher education. He said that the JBC is

plan. It wants a commitment from this board not to lobby for change in the plan once agreed to. The JBC has not agreed to seven percent general fund increase.

Discussion ensued, during which it was agreed that the School

should both endeavor to be excluded from the plan and to receive a full general fund appropriation (capitation).

April 9, 1981

WILL CONSIDER WITH RESERVATION

April 3, 1981

John M. Gary  
Professor of Mathematics

\$36,000 for the 1981-82  
academic year

Reduced Teaching Load:

Charles A. Kohlhaas  
Professor of Petroleum Engineering

Dr. Kohlhaas has requested a reduced load contract for the 1981-82 academic year, and he and Dr. Van Kirk have agreed upon a one-half load arrangement.

Change in Appointment:

R. E. D. WOOLSEY  
Appointed MAPCO Foundation Professor  
of Mineral and Resource Management

\$42,000 for the 1981-82  
academic year.

Dr. Mueller reported that, after analysis by an ad hoc

representatives of other departments, he has recommended that Dr. Harry Emrick, who has been acting Department Head of Basic Engineering, be appointed the permanent Department Head of the Basic Engineering Department.

President McBride recommended that the Board concur in this selection and appointment.

It was moved, seconded and passed to concur in the appointment of Dr. Harry Emrick to be Department Head of the Basic Engineering Department.

Brinkmann, Philip Edward  
Cochetas, George S.  
Cornick, Jon Charles  
Cosolo, David Anthony

Lampert, Thomas Kent  
Law, Russell Alan  
Ledbetter, Donald Ray  
Netschke, Gregory Wade

Curfman, Kenneth Wyatt  
Curtin, Dennis Martin  
Deatherage, Kevin Lee  
Downer, Edwin Equen, Jr.

Rasmussen, Lynn Kathryn  
Redmond, Patrick Charles  
Rose, William Robert  
Saco, Guy Edward

Fiaticano, Mark E.  
Freienmuth, David Otto  
Giusti, Paul Anthony  
Groven, Paul Allen  
Haver, Nelson Alan  
Hedlund, Jon Peter

Grasser, Emer Charles Patrick  
Thieking, Bruce Howard  
Turner, Clarke Dayton  
Tyler, William David  
Warmack, William Andrew  
White, David Rex

May 8, 1981

Neuges, Phillip Lewis

Hunsaker, Ernest Leon, III  
Jensen, Terence Lee

Sirofski, Daniel Lewis

Spencer, Frederick, Robert  
Spencer, Gregg Kevin

Jonsson, Mark Allen  
Kordziel, Walter Roy

Sullivan, Michael Joseph

GEOLOGICAL ENGINEER - MAY

Edington, Dwaine, Hugh, II

BACHELOR OF SCIENCE (PETROLEUM ENGINEERING) - MAY

Atencio, Nicholas Wayne  
Bell, John Francis  
Browne, William Louis, Jr.  
Buell, Richard Scot  
Burkhalter, David Samuel  
Carter, Mark Elliot  
Coombs, Steven Frederick  
Deines, Timothy Alan  
Enger, Steven Richard  
Feghi, Farag Abdurazk  
Freeman, Stephen Carter  
Ginest, Noel Howard  
Goodrich, Jeffrey Leland  
Green, Janet Elizabeth  
Harrison, Alan Clyde

Kasischke, William Fredrick  
Kelly, Timothy S.  
Kugler, Bruce Alan  
McGehee, Michael David  
McMican, Michael Leroy  
Mighton, Timothy Matthew  
Miklius, Raymond Anthony  
Moos, Marvin Charles  
Rives, Stephen Christopher  
Schroeder, Frederick Anthony  
Smith, Scott Sherman  
VanAllen, Charles Andrew  
Vincent, Robert Stewart  
Weber, James Henry  
Wilson, Matilda Jane

Howard, Jack Lee

Wylie, James Michael

Lange, David Lee, Jr.  
Maholland, Michael Kent  
Malsam, Michael George

Woodward, Mark Arthur  
Wright, Kenneth James

BACHELOR OF SCIENCE (GEOPHYSICAL ENGINEERING) - MAY

Addis, Daniel Joseph  
Allison, Janice Lynn

Johnson, Timothy William  
Keffer, Louise Agatha

Beeney, Kenneth Earl  
Conner, Keirnan Lee

Lessenger, Margaret Ann  
McPherson, Daniel Dale

DIRKS, STUART ALLEN  
Eaton, Perry Alan  
Edrich, Mary Elizabeth  
Elwood, Krista Jean  
Foster, Robert Kent  
Greenberg, Norman Lee  
Greene, Jeremy Theodore  
Gunnerson, Bret Gordon  
Hanson, Ann Elisabeth  
Harper, Harold Orris, Jr.  
Harris, Ronald Eugene  
Irminger, Steven Edward

MALDEN, RICHARD ALLEN  
Musgrave, Raye Lyn  
Pekarek, Gary R.  
Peterson, Amy Lynn  
Porter, Carmen Jean  
Rosenoff, Douglas T.  
Roundtree, Russell Douglas  
Sharps, Martin William  
Shaw, Scott Warren  
Spencer, Gregg Kevin  
Troyer, Scott  
Zollinger, Renee D.

BACHELOR OF SCIENCE (MINERAL ENGINEERING CHEMISTRY) - MAY

Bowman, Susan Jeanette  
Laffoon, Alice Marie



Boening, Diana June  
Cobb, William Edmund  
Ellison, Arlo Eugene  
Stackable, Michael James  
Strauch, Mark Stephen

Bremkamp, Stephen William  
Martin, Walter Fleming  
McGuire, Michael Herbert

Weiss, Kent Edgar

BACHELOR OF SCIENCE (MINERAL ENGINEERING MATHEMATICS) - JUNE

Goodrich, Jeffrey Gerald

May 8, 1981

Black, Michael Dean

Grimmett, Todd Thatcher

Perrelli, Susan M. Leach

BACHELOR OF SCIENCE (MINERAL ENGINEERING CHEMISTRY) - AUGUST

Mees, Donna Ellen

BACHELOR OF SCIENCE (MINERAL ENGINEERING) - AUGUST

Gartenberg, Gary Davis

May 8, 1981

MASTER OF SCIENCE (CHEMISTRY AND TECHNOLOGY RELATED ENGINEERING)

Angelos, Cris Paul  
Eaton-Snodgrass, Wanda J.  
Ahmed, El-Azhary Omar  
Johnson, Jeffrey Jay

MASTER OF SCIENCE (GEOPHYSICAL ENGINEERING)

Garg, Nek R.  
Plikk, Martin

MASTER OF SCIENCE (GEOPHYSICS)

DOCTOR OF PHILOSOPHY (GEOLOGY)

Cress, Leland Durwin  
Lopez, David A.  
Sonnenberg, Stephen A.

DOCTOR OF PHILOSOPHY (CHEMICAL AND PETROLEUM-REFINING ENGINEERING)

Furlong, Mark W.

DOCTOR OF PHILOSOPHY (GEOCHEMISTRY)

Chatham, James Randall  
Smith, Linda F.

DOCTOR OF PHILOSOPHY (APPLIED PHYSICS)

Forrest, Joel Stephen

Ballen, Roger Franklin  
Donald, Dennis W.  
Heydari, Mir Nassir  
Rasey, Stephen Merritt

DOCTOR OF PHILOSOPHY (GEOPHYSICS-PHYSICS)

Lin, Hung-Liang

with Dr. Mueller, an extensive proposal has been prepared and that it will be mailed to the Trustees in advance of the June 12 Board meeting. He indicated that a recommendation for departmental status for environmental sciences will be an agenda item for the June meeting.

May 8, 1981

President of the CSM Foundation. He stated that the Board wishes Mr. White good luck.

The meeting adjourned at 2:50 p.m. for executive session.

  
Secretary

~~SOME CHECKS TO APPROVE THE REGISTRY OF THE ISSUE. THIS OFFER IS FOR IMMEDIATE ACCEPTANCE UNLESS OTHERWISE SPECIFIED ABOVE.~~

Respectfully submitted,

Respectfully

General Partner

ACCEPTED FOR AND ON BEHALF OF.....  
....., pursuant to authorization by its governing  
body, and receipt of the above mentioned check acknowledged, on this date, May 8....., 1981.....

Attest:.....  
Signature

.....  
Signature

Secretary, Board of Trustees  
.....  
Official Title  
(SEAL)

.....  
Official Title

Boettcher & Company

**Boettcher & Company**

By.....  
General Partner

....., pursuant to authorization by its governing  
body, and receipt of the above mentioned check acknowledged, on this date, May 8, 1981

Signature

Secretary, Board of Trustees

Signature

President, Board of Trustees

Official Title

(SEAL)

Official Title



DAVID B. FLETCHER  
Visiting Professor of  
Mineral Economics

\$24,000 for the 1981-82  
academic year

Barry B. Hughes

\$2,500 for fall semester

Humanities and Social Sciences

year

LAWRENCE E. KAZMERSKI  
Adjunct Professor of Physics

\$2,000 for the 1981-82  
academic year

Karen E. Kieselbach  
Librarian

\$15,000 for the calendar  
year

G. W. Rayner Cannon

\$6,100 for the 1981-82

VISITING ASSOCIATE PROFESSOR  
Chemistry and Geochemistry

and based upon the number accepted, admissions for next fall were closed effective June 1. He said that his office is no longer evaluating or accepting students who apply for admission except as a courtesy to assist them in securing admission elsewhere.

Cooperative Education and Placement. Mr. Warren Spaulding

reviewed the Cooperative Education and Placement Status Report 1980-81. He said that the response to the program indicates that Mines students are in demand.

Discussion followed, during which the Trustees thanked Mr. Spaulding for his report.

Departmental Status for Environmental Sciences. Dr. Golden presented to the Board the proposal that the existing program in environmental sciences be established as the Department of Environmental Sciences and

Engineering Ecology. This department will not only continue in its service

role but will have permission to proceed with the planning of an interdisciplinary Master of Science degree. The Department is to be headed by Dr. Beatrice E. Willard.

It was pointed out that this has been discussed previously and approval was recommended.

June 12, 1981

usually enforced by a quota and selection procedure, is common practice in

engineering schools across the country. It was noted that this system was mentioned in our published material advance notice that such a system may come into

to authorize the administration to include this statement in the next CSM catalog (1982-1983).

June 12, 1981

all possibilities for student financial assistance, although not specific to school tenants, would be brought to the attention of the students.

trustees expressed concern about the safety of the housing being

is not providing safe housing due to lack of maintenance and due to the fact that the students have been bothered by mice, rats, etc.

the Board's responsibilities for providing student housing.

June 12, 1981

prohibit discrimination.

TUITION AND FEES  
FY 1981-82

Tuition

<u>Student Load</u> <u>Semester Hrs</u>	<u>Res.</u>	<u>Nonres.</u>
9.5 & over	874	2622
8.5 - 9.0	522	1575
7.5 - 8.0	464	1400
6.5 - 7.0	406	1225
5.5 - 6.0	348	1050
4.5 - 5.0	290	875
3.5 - 4.0	232	700
2.5 - 3.0	174	525
1.5 - 2.0	116	350
.5 - 1.0	58	175

Fees

Infirmary	\$18.00
* Student Health Insurance	
Associated Students	13.25
Athletic	15.00
Student Center	35.00

Total \$81.25/sem.

Orientation, New Stu \$ 3.50

Summer Session Field Courses

Tuition, 6 weeks 348 1050

Infirmary Fee, On-Campus \$ 9.00  
Stu Ctr, on-campus 13.25

Summer Session Academic Courses

Tuition, same as regular academic sem.  
Infirmary Fee \$ 9.00  
Student Center Fee 17.50

June 12, 1981

# RECORD OF PROCEEDINGS

6

## Mandatory Accident Ins.

Mining 318, semester \$ 5.00

## Intensive English Course

EN 01 1400  
EN 02 700

Tuition, 11 weeks  
Infirmary Fee \$12.00  
Student Center Fee 17.50  
Summer Activity Fee 60.00

## Graduate Sessions

Fees are the same as for undergraduate students,  
with the following exceptions:

## Thesis Research - Summer

Tuition, Min. 3 sem/hrs  
(Tuition is same for  
14 weeks as 8 weeks)

\* Infirmary Fee  
14 weeks \$12.00  
8 weeks 9.00  
Stu Center Fee, if on  
campus 17.50

## Thesis Fees

The charges for the binding of theses are  
included in the graduation fee.

## Graduation Fees

Bachelors \$25.00  
Professional Engineers 25.00  
Masters 76.00  
Doctors 96.00

## \* Student Health Insurance Plan (nonmandatory)

	<u>Annual Fee. Entire</u> <u>Year Coverage</u>
Student	\$138.00
Spouse	151.52
Spouse & Child(ren)	288.61
Child(ren) Only	137.16
Optional Maternity	220.00

Insurance also available for  
Summer Session only, \$35.

June 12, 1981

Single Room	1030	1450
Meal Plans, Academic Year*		
18-meal Plan	985	1100
15-meal Plan	895	1000
10-meal Plan	845	940
Residence Hall Activity Fee	6	6
<u>Field Session</u>		
Randall Hall		
Room Only		
Double Room	150	225
Single Room	175	250
<u>Summer Session</u>		
Randall Hall*		

Single Room	230	330
Twin Towers*		
Double Room	250	355
Single Room	270	375

Meal Plans, Summer Session

15-meal Plan	225	255
10-meal Plan	215	240

Prospector Village (monthly rate)

Married Student Apartments

1-bedroom	160	200
2-bedroom	180	225
3-bedroom	200	250

\*Residence Hall students must choose either the 5-day 15-meal Plan or the 6-day 18-meal Plan.

June 12, 1981

this item has been discussed previously by the Board and needs its approval. Golden City Councilman James Brown and City Manager Chuck Goudge were present to answer questions.

The City has asked for a 75-year lease and has budgeted \$100,000

for improvements on the land.

Mr. Scott said that there is an escape clause on both sides. The cancellation provision is notification one year in advance.

The meeting adjourned at 12:05 p.m. for executive session.

  
Secretary

June 12, 1981



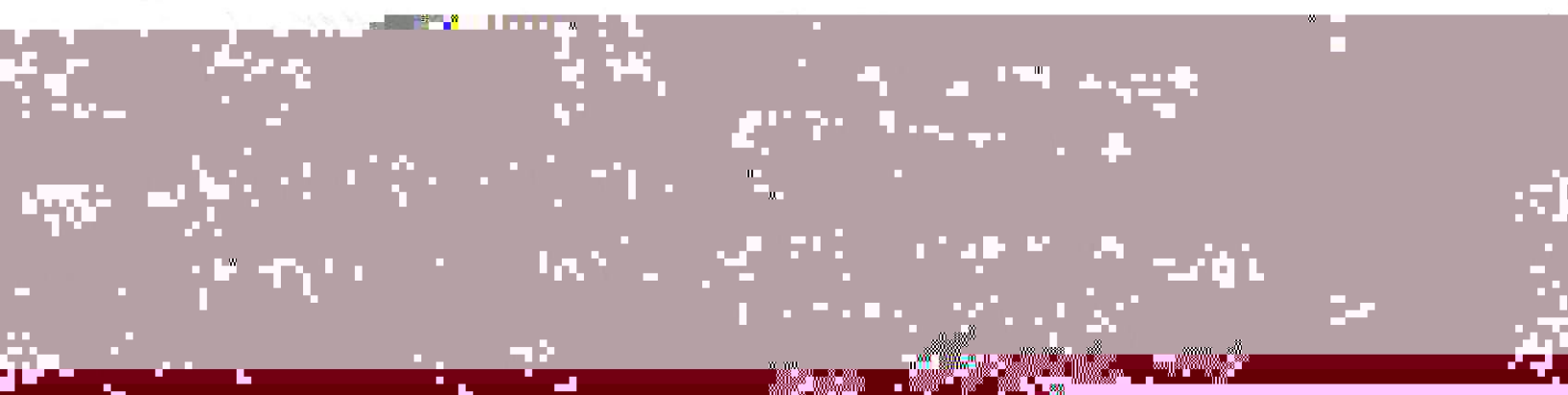
maintained. This past winter we did not have heat or hot water on more than a dozen occasions. There is no insulation in the buildings and they are so loosely constructed that winter winds blow through many of the apartments strongly enough to flap the drapes. Rocky, bare areas in the grounds have never been seeded or sodded. Trenches and

large cracks in the ground go for as much as a year before they are

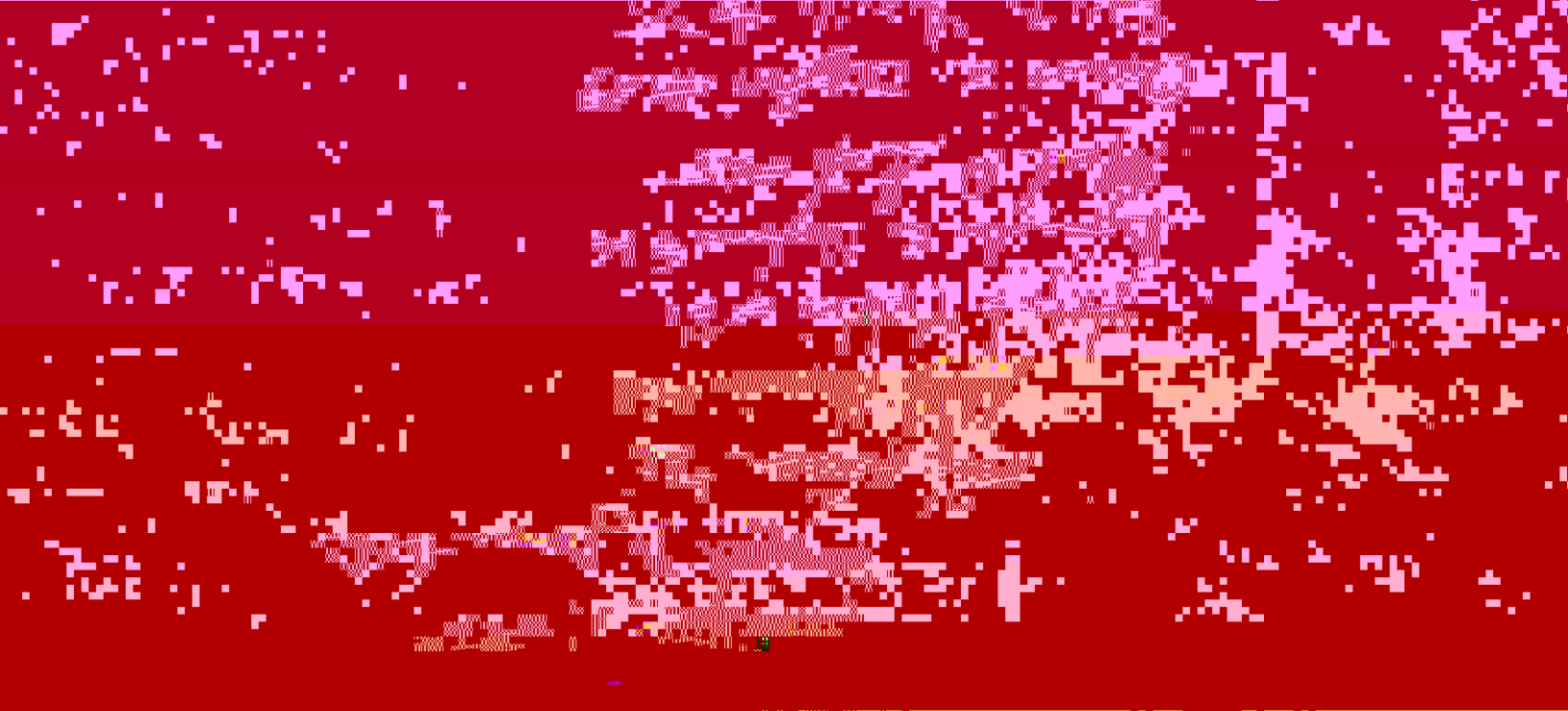
were finally fenced, the fences were not child proof by any means! The street lights were all out for approximately one year before they were fixed. Complaints to the Housing Office are often unheeded. Please note the attached personal complaints.

3) We do not believe that the tenants in married student housing should

be charged high rental rates in order to subsidize the operating expenses of the cafeteria, the dormitories, and the loan for the twin towers dorm (information provided by the Director of Housing).



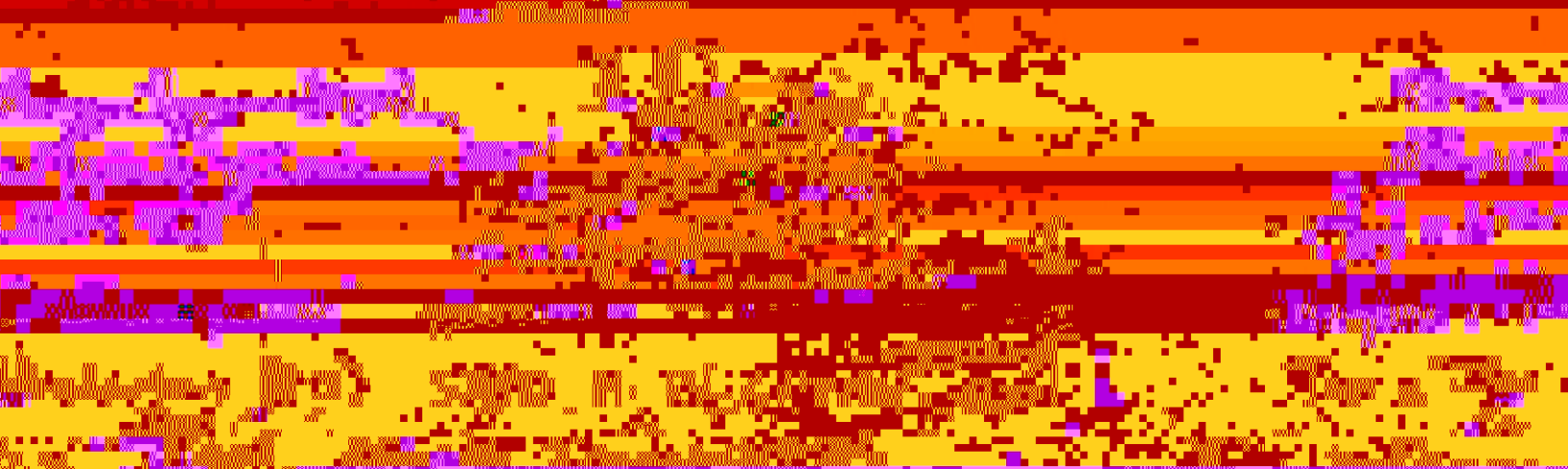
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Handwritten notes and signatures at the bottom of the page:

- Left side: *Hasan S. Akhmed*
- Center: *John Robert Clark #33*
- Bottom left: *Rohamco M. Amer #32*
- Bottom center: *#50*
- Bottom right: *#32*

... the principal amount of \$5,700,000, due and payable  
September 1, 1979 (the "1977 Warrants"), to provide part of the  
funds for this purpose; and

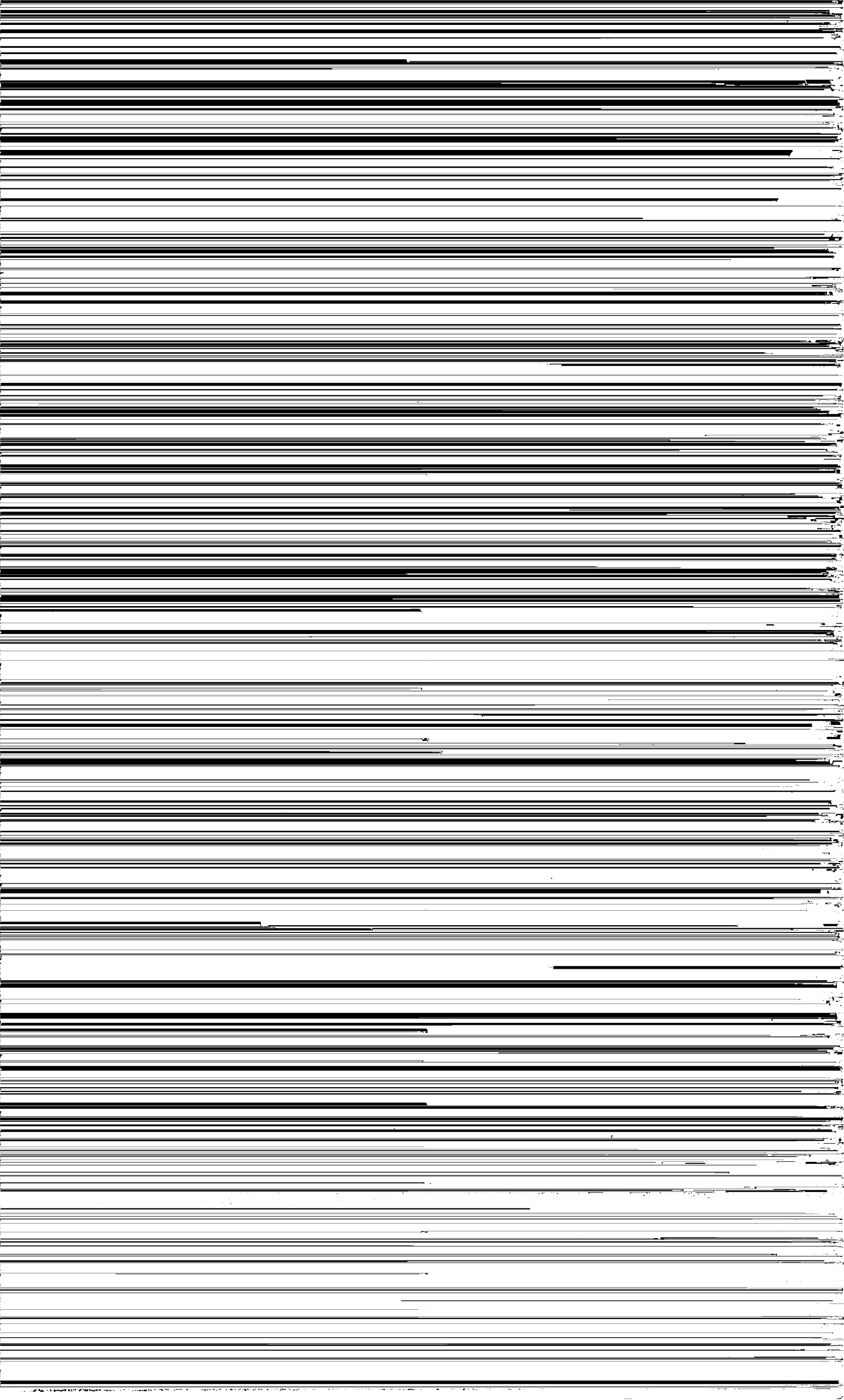
WHEREAS, the 1977 Warrants were redeemed and liquidated and

exercise its power under the constitution and laws of the state of Colorado to issue its Anticipation Warrants each to be designated "Colorado School of Mines Dormitory and Student Center Revenue Anticipation Warrant" in the principal amount of \$4,500,000, bearing interest at the rate of 10% per annum, payable December 1, 1981 and semiannually thereafter on June 1 and December 1 each year, until maturity, evidenced by bearer

coupons attached to each warrant.

2. The warrants shall be dated as of June 1, 1981; shall consist of 900 warrants in the denomination of \$5,000 each, numbered 1 to 900, inclusive; and shall mature on June 1, 1984.

in lawful money of the United States of America, at the United Bank of Denver, National Association, in Denver, Colorado.



and to pay interest thereon from the date hereof at the rate of

ten percentum (10%) per annum, payable December 1, 1981 and semiannually thereafter on June 1 and December 1 each year until maturity, as evidenced by interest coupons hereto attached.

Both the principal of and the interest on this Warrant shall be payable in lawful money of the United States of America, at the United Bank of Denver, National Association, in Denver,

Colorado, upon presentation and surrender of said coupons and

this warrant as they severally become due.

Warrants of this issue may be redeemed prior to maturity at the option of the Board on June 1, 1982 and on any interest payment date thereafter, by lot if less than all are redeemed,

if redeemed June 1, 1982, and at par and accrued interest if redeemed December 1, 1982 or thereafter.

This Warrant is one of a series of Warrants of like tenor and effect, totaling Four Million Five Hundred Thousand Dollars (\$4,500,000), consisting of 900 Warrants in the denomination of \$5,000 each, numbered 1 to 900, inclusive, issued for the

loans, from private funding sources, cash or any combination of

these sources, to be issued or available prior to June 1, 1984.

This Warrant and the interest hereon constitute a special obligation of the Board, and is payable solely from the above-described sources and does not constitute an indebtedness of the State of Colorado. The holder hereof shall never have the right to demand payment of this Warrant or the interest hereon out of any funds raised or to be raised by taxation, and said Warrants shall never evidence or become a charge or claim against the State of Colorado, the Warrant holders' sole right and remedy for payment being confined to the sources herein specified.

This warrant shall be a negotiable instrument in accordance with the laws of the State of Colorado, and shall be transferable by delivery.

It is hereby declared and represented that this Warrant was duly authorized by the Board at a regular meeting held on June 12, 1981, and that in issuing this Warrant, and while such Warrant is outstanding and unpaid, the Board has covenanted and agreed that it will pay this Warrant and the interest hereon



Facsimile signature of the President of said Board, sealed with  
a facsimile of the seal of said Board, sealed with a facsimile  
of the seal of said Board, attested by the manual signature of  
the Secretary thereof, and the coupons to be signed with the  
facsimile signature of the Secretary of the Board, and this

WARRANT TO BE ISSUED BY THE BOARD OF DIRECTORS

(FACSIMILE SEAL)

COLORADO SCHOOL OF MINES

ATTEST:

President

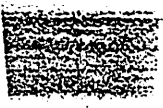
Secretary

redemption), the Board of Trustees of Colorado School of Mines will pay to the bearer out of the sources designated in the Warrant to which this coupon is attached, but without liability or obligation otherwise, the amount shown hereon, in lawful money of the United States of America, at the United Bank of Denver, National Association, in Denver, Colorado, being interest then due on its Colorado School of Mines Dormitory and

Student Center Revenue Anticipation Warrant dated June 1, 1981,  
bearing

No. \_\_\_\_\_

(Facsimile Signature)  
Secretary



insurance as would customarily be carried by a prudently managed  
(d) To provide adequate liability and such other  
any compliance

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participate in the defense of any such litigation; provided, however, that any such participation by the Warrant holders shall be at their own expense.

(f) That it will make no use of the proceeds of said Warrants which might cause such obligations to be arbitrage bonds within the meaning of Section 103(c) of the Internal

and in effect thereunder.

7. That no owner or holder of any of the Warrants authorized herein shall ever have the right to demand payment of any of said Warrants or interest thereon out of any funds raised

together with such other certificates or documents as may be

Resolution.

ADOPTED AND APPROVED as of this 12th day of June,  
1981.

(S E A L)

\_\_\_\_\_  
President

\_\_\_\_\_  
Secretary

copy of the original Resolution adopted at said meeting, which minutes and Resolution are on file and of record in my office.

WITNESS my hand and the seal of the Board of Trustees of Colorado School of Mines, this \_\_\_\_ day of \_\_\_\_\_, 1981.

\_\_\_\_\_  
Secretary

(S E A L)

RESOLUTION AUTHORIZING THE ISSUANCE OF SAID REVENUE ANTICIPATION  
Warrants was adopted, viz:

W. K. Coors March 25, 1985

Fred R. Schwartzberg March 23, 1983

James C. Wilson March 23, 1985

J. N. Warren March 23, 1987

Student Representative:

That the following is a list of the present officers of the  
Board:

President:	W. K. Coors
Vice President:	Fred R. Schwartzberg
Secretary:	James C. Wilson
Assistant Secretary:	Monte Pascoe
Assistant Treasurer:	Don K. Henderson

EXECUTED this \_\_\_\_ day of June, 1981.

( S E A L )

\_\_\_\_\_  
Secretary

5. The facsimile signature of the President and the Manual

facsimile signature of the Secretary of said Board appearing



Signatures above and upon each of the above-described  
Warrants guaranteed as those of the officers respectively  
designated above.

By \_\_\_\_\_ of  
Boettcher & Co.,  
Denver, Colorado

matrices dated July 1, 1979 numbered 1 to 505 in the  
denomination of \$5,000 each are paid, I will cause the same to  
be cancelled and destroyed.

IN WITNESS WHEREOF, I have hereunto set my official hand  
and the seal of the Board, this \_\_\_\_ day of June, 1981.

(S E A L)

\_\_\_\_\_  
Treasurer

The College has covenanted in its certified record of Proceedings dated June 12, 1981, not to use the proceeds of the

warrants so as to cause them to be arbitrage bonds under section

2007 of the Internal Revenue Code and regulations in effect thereunder.

The \$4,500,000 received by the College from the sale of the Warrants is expected to be needed and fully expended on or prior to July 1, 1981 to pay and redeem \$4,525,000 Colorado School of

Warrants, dated July 1, 1979, due July 1, 1981.

the expectations herein expressed.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_\_

day of June, 1981.

\_\_\_\_\_  
Treasurer,  
Colorado School of Mines  
Golden, Colorado

the Board the failure of the June minutes to record the election of Mr. Scott as Treasurer of the Board. It was moved and seconded that the minutes be amended to reflect that action and approved as amended. Motion carried.

Faculty Appointments. Dr. Mueller reviewed the new faculty appointments, resignation and leaves of absence, as follows:

New Appointments:

Assistant Professor of Chemical and Petroleum-Refining Engineering	academic year
Ramona M. Graves Assistant Professor of Petroleum Engineering	\$20,000 for the 1981-82 academic year
Robert D. Hamilton Assistant Professor of Geology	\$20,040 for the 1981-82 academic year
Robert C. Hansen Associate Professor of Basic Engineering	\$27,500 for the 1981-82 academic year

Librarian

period June 22 to August 31, 1981

Assistant Professor of Metallurgical Engineering

academic year

July 18, 1981

for construction, steam supply and financing as are required to be executed prior to the next regular meeting of the Board. Seconded. Carried with Mr. Coors abstaining.

July 18, 1981

the vice president for student affairs and dean of students and that the incumbent, Dean Nyikos, fill the office and be known by that title.

It was moved and seconded that the salaries recommended for the contract year beginning September 1, 1981 and the organizational change

Harold R. Chevront \$29,000  
Registrar

Brodie D. Farquhar

PUBLIC INFORMATION OFFICER 21,500

Carl A. Fawcett 30,900

Center, and Green Center

Daniel R. Frelund 30,800  
Controller

John O. Golden 53,200  
Dean of Graduate Studies and Research  
and Professor of Chemical and Petroleum  
Engineering

Robert J. Hensley 19,900  
Admissions Counselor

William A. Ingels 32,700

Administrative Services Officer

Carl Kallianstad 28,150  
Director of Research Administration

Andrew M. Lopez 23,300  
Affirmative Action/Contract Review Officer

Director of Financial Aid 27,000

July 18, 1981

Charles S. Morris Director of Public Relations	29,500
William M. Mueller Vice President for Academic Affairs and Dean of the Faculty and Professor of Metallurgical Engineering	62,700
Michael S. Nyikos Vice President for Student Affairs and Dean of Students	40,000
Judith O'Brien Personnel Officer	26,400
Jon W. Raese Director of Publications	26,000
Anne R. Reynolds Assistant Director of Housing and Head Resident of Twin Towers Hall	8,500
Martin D. Robbins Director, Colorado Energy Research Institute	56,100
W. Gordon Scott Vice President for Business Affairs	55,000
Warren A. Spaulding Director of Cooperative Education and Placement	22,500

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Departmental Assistant

Richard Sudermann Director of Plant Facilities	37,900
Paul T. Treece Assistant Director for Systems and Operations and Assistant Professor of Mathematics	33,390
Frank Waterous Admissions Counselor	18,600
Joseph C. Weber Assistant Dean for Research Development	32,340

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ECONOMICS

July 18, 1981



funding cycle, and our longer term actions related to continuation of the Mines

preliminary nature of the draft and then moved through the sections of the paper, highlighting three issues related to the next legislative session:

adjustment in the general fund base?

2. Should CSM employ experienced full time representatives at the legislature?

July 18, 1981

base in the request document. Discussion followed, at the end of which the Board indicated its preference to use the adjusted base and to make explicit to the legislature the additional tuition required should the adjustment not be made.

July 18, 1981

**RECORD OF PROCEEDINGS**

7

It was moved and seconded that the parameters as amended be adopted.  
Carried.

Executive Session. The regular meeting was adjourned at 5:45 p.m.,  
and the Board went into Executive Session.

  
Secretary

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The APCUP formula generates 21.5 Staff FTE. Placement and co-op staffing plans will require an increase of 1.0 FTE in 1982-83 and 0.5 FTE in 1983-84.

8. Data Processing.

The 1981-82 staffing plan for Data Processing is 20.9 FTE. With the expanded usage of the computer for instruction and administration, it will be necessary to increase the staff level to 23.0 FTE by 1984-85.

1982-83 = 21.6 FTE    1983-84 = 22.3 FTE

9. Library.

The 1981-82 staffing level is 20.1 FTE. It is expected to reach the full APCUP formula of 22.8 FTE by 1984-85.

1982-83 = 21.0 FTE    1983-84 = 21.9 FTE

10. Physical Plant Operations.

The current staffing level is 91.1 FTE.

11. Staff Compensation Increases.

10. GENERAL

1982-83 = \$70,000    1983-84 = \$140,000

19. Contingency.

A \$100,000 reserve will be established in 1982-83. It is recommended that a similar amount be set aside on an annual basis.

- 12. Utilities  
Rate increase, 35%
- 13. Operating Expense and Travel  
Continuing programs, add 10%  
Expansion of Sponsored Research support, \$40,000
- 14. Learning Materials  
Add \$45,000

16. Computer Payments

- 17. Contingency  
No addition
- 18. Fabrication  
No addition

Exempt	\$6,794,066 200.3 FTE	\$7,745,235 200.3 FTE
Support	1,827,231 93.2 FTE	2,206,339 95.2 FTE
Other Current Expense	453,970	539,370
Travel	48,750	53,650
Museum	31,458 1.6 FTE	35,519 1.6 FTE
Capital Outlay	-----	225,000
Sub-Total	9,155,475 295.1 FTE	10,805,113 297.1 FTE
GENERAL INSTITUTIONAL ADMINISTRATION	1,243,434	1,385,087
INSTRUCTIONAL SUPPORT	39.3 FTE	39.3 FTE

Library Operations	431,040 20.1 FTE	483,020 20.1 FTE
Learning Materials	227,817	272,817

Data Processing	20,900 20.9 FTE	24,900 20.9 FTE
ADP Equipment Payments	284,861	284,861
Sub-Total	2,387,580 65.5 FTE	2,652,867 65.8 FTE
PHYSICAL PLANT OPERATIONS	2,214,359 91.1 FTE	2,437,647 91.1 FTE
UTILITIES	902,152	1,218,000
<b>TOTAL EXPENSE</b>	<b>\$15,903,000</b> <b>491.0 FTE</b>	<b>\$18,498,714</b> <b>493.3 FTE</b>

**FOOTNOTES.**

1. Resident FTE = 2,289; Nonresident FTE = 851 and Total FTE = 3,140. General Fund support per Resident student FTE is 107 percent of 1981-82 amount (\$3,688).

2. Resident/nonresident tuition is \$2,108 and \$5,892, respectively. Other cash includes an increase of \$200,000 from Sponsored Research overhead income.



CONFIDENTIAL

to \$40,000. Adjustment made for unrecognized increased responsibilities incurred in

SECRET

Dr. James C. Hepworth

Appointment as Director of Special Projects in includes monitoring Education and Energy and Minerals Funds Institute at a salary of \$36,000.)

and Engineering Ecology

Gary W. Grefsrud  
Adjunct Professor of Mathematics

13,500 for the 1981-82 academic  
year for half-time effort

Abdelwahid Ibrahim  
Visiting Associate Professor

30,000 for the 1981-82  
academic year

OF GEOPHYSICS

John L. Lufkin

27,000 for the 1981-82

ASSOCIATE PROFESSOR OF GEOLOGY AND  
Assistant Department Head of the  
Geology Department

academic year

Joseph A. Marcello  
Visiting Assistant Professor  
of Chemistry and Geochemistry

19,000 for the 1981-82  
academic year

ASSISTANT PROFESSOR OF MATHEMATICS  
Assistant Director of the Computing Center

1, 1981-August 31, 1982

September 11, 1981

Humanities & Social Sciences

Reuben J. Ross

12,600 for the 1981-82

Steven A. Russell  
Part-time instructor in Mathematics

9,000 for the 1981-82  
academic year

Linden E. Snyder

3,450 for the 1981-82

BASIC Engineering

Richard C. Walker  
Adjunct Assistant Professor  
of Mathematics

4,500 for the 1981-82  
academic year

Larry E. Wells  
Adjunct Assistant Professor of  
Petroleum Engineering

2,250 for the fall semester  
of the 1981-82 academic year

Thomas R. Young  
Adjunct Professor of Mining Engineering

2,050 for the 1981-82  
academic year

September 11, 1981

of 15.5% beyond the adjusted base in the state tax dollar capitation number.

The Board approved the recommended revised budget as the basis for further informal negotiations with state officials and for submittal in due course as these negotiations indicate.

September 11, 1981

Hepworth.

Upon motion made, seconded, and passed the Board approved the adjustments.

REVISED AFFIRMATIVE ACTION PLAN. PRESIDENT MCBRIDE INTRODUCED MRS. NANCY Connick of the Attorney General's Office, who said that our first requirement is to revise our Affirmative Action Plan and to submit it to the Department of Labor no later than the Monday following the October Board meeting. She stated that, in her opinion, the current draft needs substantial revision.

Mr. Andy Lopez, Affirmative Action Officer, reviewed the current draft and

stated that the figures reflected in the chart above were based upon the 1970 census. He stated that the OFCCP has suggested that these figures may not be acceptable. Mrs.

Connick stated that there are several publications now available which contain data which may be acceptable to the OFCCP.

Discussion followed, during which it was determined that in view of the fact that this is a matter that is a pending proceeding, it is proper to defer it to the executive session.

September 11, 1981

OF MINES, and need not be processed for personnel security clearance.

Officers - CSM Trustees

James C. Wilson	President
Fred R. Schwartzberg	Vice President
Don K. Henderson	Secretary

CSM Trustees

W. K. Coors - Adolph Coors Company, Golden, Colorado 80401

Denver, Colorado 80218

Jasper N. Warren - Goldrus Drilling Co., 900 FCNB Bldg., Houston,  
TX 77002

Lakewood, Colorado 80235

September 11, 1981

Secretary

Ardel J. Boes	
Professor of Mathematics	33,230
Emmy Booy	
Assistant Professor of Geology	25,000
Joan N. Brooks	
Assistant Professor of Basic Engineering	23,110
Austin R. Brown, Jr	

PROFESSOR OF MATHEMATICS	33,070
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Diane Brown

PROFESSOR OF PHYSICS	30,100
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W. Rex Bull  
 Professor of Metallurgical Engineering (One-third

PROFESSOR OF PHYSICS	30,440
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Jerrold J. Burnett  
 Professor of Physics



Debra Carnell	Assistant Professor of Basic Engineering	20,180
Edward F. Cecil	Associate Professor of Physics	23,710
Jin S. Chung		

DEPARTMENT OF BASIC ENGINEERING		33,630
W. John Cieslewicz	Associate Professor of Humanities and Social Sciences and Associate Professor of Mineral Economics	22,610
L. Graham Closs	Assistant Professor of Geology	23,910
William D. Copeland	Professor of Metallurgical Engineering and Head of the Department	41,890
John A. Cordes	Associate Professor of Mineral Economics	25,060
Scott W. Cowley	Assistant Professor of Chemistry	20,150
Richard S. Culver	Professor of Basic Engineering	29,690
Stephen R. Daniel		

James Darden	Associate Professor of Physical Education and Athletics	29,170
Thomas L. Davis	Assistant Professor of Geophysics	24,990
Richard H. DeVoto	Professor of Geology	30,970
Dean W. Dickerhoof		

DEPARTMENT OF CHEMISTRY		29,510
Donald I. Dickinson	Associate Professor of English	27,460
Philip F. Dickson	Professor of Chemical and Petroleum-Refining Engineering and Head of Department	42,480
John Patrick Dyer	Assistant Professor of Physical Education and Athletic Trainer	22,260

July 31, 1981



PROFESSOR OF CHEMICAL AND PETROLEUM REFINING  
Engineering (Assigned to the Department of Mineral  
Economics)

36,700

Charles H. Stoyer  
Assistant Professor of Geophysics

25,460

Robert J. Taylor  
Associate Professor of Basic Engineering

27,760

John U. Trefny  
Associate Professor of Physics

24,860

Robert H. Trent  
Instructor in Mining Engineering, 80% basis

26,070

A. Keith Turner  
Associate Professor of Geology

28,260

Robert Underwood

David M. Updegraff  
Professor of Geochemistry

30,870

Samuel E. Vandiver

PROFESSOR OF HUMANITIES AND SOCIAL SCIENCES

31,660

July 31, 1981

DIRECTOR OF EARTH MECHANICS INSTITUTE AND PROFESSOR OF Mining Engineering	38,020
John E. Warne Professor of Geology	36,880
Robert J. Weimer Getty Professor (Professor of Geology)	46,360
James E. White Professor of Geophysics	43,170
Ronald Wiedenhoft Associate Professor of Humanities and Social Sciences	29,320
Thomas R. Wildeman Professor of Chemistry	31,310
Karen B. Wiley	

<del>ASSISTANT PROFESSOR OF HUMANITIES AND SOCIAL SCIENCES</del>	<del>19,710</del>
Beatrice Willard Professor of Environmental Sciences and Engineering Ecology and Head of the Department	34,330
John T. Williams Professor of Chemistry	39,320
DON E. WILLIAMSON Associate Professor of Physics	25,280
Robert D. Witters Professor of Chemistry	30,130
Robert E. D. Woolsey Professor of Mineral Economics	42,000
Baki Yarar Associate Professor of Metallurgical Engineering	27,520
Frank R. Yeatts	

Victor Yesavage Associate Professor of Chemical & Petroleum-Refining Engineering	29,890
Terence K. Young Assistant Professor of Geophysics	25,210

July 31, 1981

Petroleum Engineering

Russell C. Dohmann

\$1,400 for the fall semester of

Basic Engineering

Russell F. Heckman

\$10,000 for the 1981-82

ADJUNCT PROFESSOR OF CHEMICAL and  
Petroleum-Refining Engineering

Robert E. Jeffrey

academic year

\$4,000 for the 1981-82 academic

October 9, 1981



award the Mines Medal at the December Degree Convocation.

October 9, 1981

signed by each member of the Board and to be handed to Mr. Stockmar along with the usual silver certificate of service and appreciation.

The Board approved the letter and the proposed program.

Announcements. Miss Craig reminded the Board of the dedication of a tree in honor of Dr. Fogarty today at 12:15 p.m.

President McBride said that Professor Emeritus Walter Walter H. Dumke has died and that services will be held at noon on Monday following.

The meeting was adjourned at 11:30 a.m.

  
Secretary

October 9, 1981



of ~~DAVE~~ Engineering

Warren A. Spaulding

No additional pay

ASSOCIATE PROFESSOR OF MILITARY SCIENCE

Change in Appointment:

Instructor in Petroleum Engineering

academic year

This is a change in appointment from Assistant Professor to allow Mrs. Graves to complete

REQUIREMENTS FOR THE M.S.

DIRECTOR OF THE ~~DEPT~~ MECHANICS and  
Excavation Engineering Institute

Dr. Ozdemir has been Acting Director of EMI since August 1, 1981.

improvement funds for the 1982-83 year in the following amounts:

Professional activities	\$ 25,000
Recruiting-Miscellaneous	15,000
Research	90,000
	<u>\$130,000</u>

the recommendation.

November 13, 1981

government.

LEGISLATIVE MATTERS. PRESIDENT MERRIDGE reported that he and MR. PASCOE attended the JBC meeting on Wednesday, November 11. It is presumably the only hearing that CSM or any other school will get. This Board will have the opportunity to present its case to the JBC at a December 10 luncheon with the JBC, which has now been scheduled. The hearing

on Wednesday was not particularly closely directed to matters of concern to mines.

Mr. Pascoe indicated it to be his view that the JBC did not discuss the larger

questions and issues pertaining to mines.

recommended approval.

It was moved, seconded and passed to authorize the Board President and the Board Secretary to execute the deed reserving the mineral rights.

November 13, 1981

Executive Session. The regular meeting was adjourned at 11:15 a.m., and the



Secretary

November 13, 1981

Salary Adjustments:

Joan R. Hundhausen  
Associate Professor of Mathematics

Additional \$1,000 for the 1981-  
82 academic year

Richard D. Wiley  
Assistant Professor of Humanities  
and Social Sciences

Additional \$500 for the 1981-82  
academic year

Monthly Financial. Mr. Scott made available the monthly reports as follows:  
Colorado School of Mines Current Funds Comparison with Budget for the five months ending  
November 30, 1981; Colorado School of Mines Current Funds - Summary by Fund for the five  
months ending November 30, 1981; and Colorado School of Mines Time Deposits and Investment

Gill, Charles George  
Gill, Mark Charles  
James, Richard Vernon

Shenck, Daniel Leslie  
Shirley, Charles Thomas  
Simmons, Brian George

Koehler, John Robert  
Maloney, Daniel Riney

Zimbelman, Bruce Charles

Barsch, Thomas Frederick  
Dahlberg, Per Steiner  
Jones, Steven Scott

Main, David Heber  
Smith, Michael Scott

BACHELOR OF SCIENCE (GEOLOGICAL ENGINEERING) - DECEMBER

Agba, Leonard

Baird, Robert Wilson III

Asnen, Mary Cecile

Baron, Suzanne Blumank

BACHELOR OF SCIENCE (GEOPHYSICAL ENGINEERING) -- DECEMBER

Agena, Warren Fred  
Anderson, William Emil  
Brainerd, Gregory Stuart

Hayden, Vicki Loraine  
Ketchum, Karen Sue  
Marrone, Frank Joseph

BROOKS, THOMAS ALAN  
Burgus, Mark Lee  
Cataldo, Brad R.

MATHEWSON, JOHN COREY  
McGuire, Michael Herbert  
Perrell, Susan Maireadh

GO, MICHAEL ALAN  
Smith, Mark Alan  
Smith, Richard Patrick

SIXTA, JOANNA ELIZABETH  
Whitmer, Donald M.  
Winter, Mark Thomas

GEOPHYSICAL ENGINEER - DECEMBER

Spangler, Carl Martin

December 10, 1981



HARRIS, Michael J.

MASTER OF SCIENCE (METALLURGICAL ENGINEERING) - DECEMBER

Campbell, Glenn Martin  
Cusick, Michael John

Lanning, Bruce Roy  
Ojebuoboh, Folorunsho Kayode

Geld, Mark Douglas  
Korzekwa, David A.

Plante, Paul Joseph

MASTER OF ENGINEERING (GEOLOGICAL ENGINEER) - DECEMBER

Lyman, Tracy J.

MASTER OF SCIENCE (GEOLOGY) - DECEMBER

Berg, Charles Raymond

Rath, Bruce A.

Gee, William R.  
Herald, Christopher E.

Tuppan, Eric John  
Walker, Valerie A.

MASTER OF SCIENCE (GEOLOGICAL ENGINEERING) - DECEMBER

Palen, Ann Catherine

MASTER OF ENGINEERING (PETROLEUM ENGINEER) - DECEMBER

Garrett, Bruce Thomas  
Viana, Rodolfo Tenorio

Kuhn, Michael Lee

MASTER OF SCIENCE (PHYSICS) - DECEMBER

Galasso, Linda Anne  
Martens, John T.  
Peters, Douglas Scott

MASTER OF SCIENCE (MINERAL ECONOMICS) - DECEMBER

Gruppi, Maria Jose  
Takezaki, Shojiro

Inciarte, Ricardo A.

Whitham, Barth Edward

DOCTOR OF PHILOSOPHY (MINING ENGINEERING) - DECEMBER

Maleki, Hamid

Indacochea B., Jorge Ernesto

DOCTOR OF PHILOSOPHY (GEOLOGY) - DECEMBER

Johnson, Stephen Alan  
McCalpin, James Patrick

DOCTOR OF PHILOSOPHY (PETROLEUM ENGINEERING) - DECEMBER

de Four, Mervyn Austin


in graphics, computer utilization, and technical communication. He said that a learning

December 10, 1981

science-engineering program before the PRC can be implemented. If science degrees are instituted there could be two different technical breadth requirements.

Dr. Culver agreed to prepare a detailed written report and submit it to the Board members.

The meeting was adjourned at 10:45 a.m. and the Board went into executive session.

  
Secretary