2-19-1971

The Amplifier - v. 16, no. 5

Associated Students of the Montana College of Mineral Science and Technology

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Library Fund Well On Its Way

As of February 9, the Monta-.

nia Tech Library Fund Drive

was well on its way toward its
goal of $20,000 when it reached
$18,000.

A total of 630 individuals,
groups and businesses have
made donations.

The drive, which began No-

vember 18, opened to raise $20,-

00 for library books to help
implement English and History
degrees at Montana Tech. Be-

fore degrees are listed on the
subjects, Tech must have a library
to support these degree

programs. The cost of each

book in the fields averages
around $15.

The drive is being sponsored
by the Montana Tech committee

of the Chamber of Commerce,
and the chairman is Charles
Carveth. Other members on the
committee are; Dr. J. W. Camp-
bell, Jr., P. J. DuToit; W. F.
Hart; Neil Lynch; Richard
Rule; J. E. Shaw; James Wil-
cox; Steve Hadnagy; and Dr.
E. G. Koch.

Expansion of Tech is a Com-

munity goal. Addition of these
degrees is a part of this ex-

pansion. Therefore, the stu-
dents and their parents are
for it. County Government is
for it, Silver Bow County Legis-
lators want it, Business and La-

gewant it, and Media is for it.
So, let’s see what we can do
to make it possible.

U of U Professor Speaks at Tech

“The Dynamics of Life, Death

from normal irradiation by

239 Pu and 226 Ra. Aging, Ca-

cier and other Diseases” was
discussed February 10 by

Henry Eyring, distinguished pro-
fessor of chemistry and meta-
lurgy at the University of Utah
in Salt Lake City. A no-host

dinner, at Lydias, preceded this

task.

Dr. Eyring’s presentation was
made on the basis of data for

analysis to data on irradia-

tion to modernize its facilities in

the Metallurgy Department

Wins Awards

The Metallurgy Department

won three awards from The

National Science Foundation

Instructional Scientific Equip-

ment Program.

Dr. Griffiths was awarded
$1000 for the purchase of pow-
der metal die and $1300 for

the purchase of two furnaces
with an ammonia dis-

crtrode; an environment re-

airing special pots for molten heat treat-

ments. Dr. Twidwell was award-

ed $1100 for the purchase of a

gas partitioner and recorder.

Some of the new equipment

is already available for use,

and the rest is in the process of

being set up.

The N.S.F. has now terminat-
ed its Instructional Scientific
Program which was in existence
for eight years. The program,

which was a matching grant

program, selected those pro-

posals which appeared to offer

the greatest promise of relative

improvement in the teaching of

their under-graduate science

curricula.

During the program’s exis-

tence, the Metallurgy Depart-

ment submitted proposals every

year and had at least one suc-

cessful proposal each year.

The awards enabled the depart-

ment to modernize its facilities in

several areas and provide for

additions to the departmental

equipment. Some of the equip-

ment purchased was a swaging

machine, an atomic absorption

spectrophotometer, differential

thermal analysis apparatus,

a pole-figure device for a Norelco

x-ray goniometer, an electron

microscope and vacuum evap-

orator, and a portable, manual

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Of Interest to You

Feb. 19-Movie-SUB

Feb. 20—Sweatheart Dance

Feb. 21-Concert
The study was made at the Colorado School of Mines, University of Nevada, as part of the National Academy of Sciences' study on the critical status of one of the nation's most vital sources of economic wealth.

The study included an analysis of the fields of mining, extractive metallurgy, and mineral and metal economics and resources.

Six panels of experts were named by the Committee to survey and report on the fields of mining, extractive metallurgy, production of mineral fluids, fuel science, and technology, nonmetallic materials, and mineral and metal economics and resources.

Reports of these panels comprise six of the seven studies. The seventh prepared by the committee itself, entitled "Mineral Science and Technology -- Needs, Challenges, and Opportunities," includes a discussion of mineral education and research and summarized the U.S. position, with recommendations for the future.

The committee adds: "We also find an amazing lack of coordination and support of mineral resource research by both Federal and State governments as compared with the organization and funding of research on agricultural resources but not out of mineral technology needed for their profitable production and processing in world competition."

Relating this to the Nevada scene, Dr. Scheid says that although mineral activity and production in this State have been increasing steadily over the past several decades, with mineral production two to three times greater than agriculture, the problem of Federal and State support for mineral research and education to meet the needs of the mineral industry is as critical here as elsewhere in the nation.

Two University of Nevada professors contributed to the National Academy of Sciences' study. Dr. George B. Maxey, Research Professor of Hydrology and Geology at the Mackay School of Mines, and Research Associate, Desert Research Institute, also contributed.

The report is on file at the Mackay School of Mines Library, University of Nevada, and is available to the public.

**NAC Sounds Note of Alarm**

(Taken from the California Mining Journal, May 1970)

The National Academy of Sciences has sounded a note of alarm regarding the status and future of the nation's mineral science and technology.

In a seven-part study just released, the academy presents a critical assessment of the deteriorating U.S. position in the world mining and mineral education.

"The state of mineral technology in the United States is wretched," the report announces.

According to Dr. Vernon E. Scheid, Dean of the Mackay School of Mines, University of Nevada, "This report could do much to help focus attention on the critical status of one of the nation's most vital sources of economic wealth."

The study made at the request of the U.S. Bureau of Mines in response to growing concern over the problems of mineral-related fields of research and education.

As a result, in 1966 the National Academy of Sciences, with the National Academy of Engineering and National Research Council, established the Committee on Mineral Science and Technology, charged with the task of "determining the state of mineral science and technology in the United States and providing information and recommendations regarding its health and effectiveness."

The seven volume "Mineral Science and Technology" is the outcome of that endeavor.

Six panels of experts were named by the Committee to survey and report on the fields of mining, extractive metallurgy, production of mineral fluids, fuel science, and technology, nonmetallic materials, and mineral and metal economics and resources.

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EIT Review Session in Progress

Evening review sessions in preparation for registration as Engineers-in Training began February 4, at Montana Tech. The classes, sponsored by the Butte Chapter, Montana Society of Engineers, will review engineering fundamentals and will be conducted from 7:30 to 9:30 p.m.

The schedule for sessions and their instructors, as is follows:
February 4, Main Hall 103, Mathematics, William Catenaro, associate professor of mathematics; February 11, Petroleum 10, Statics, Dr. Michael Doman, assistant professor of physics; February 18, Petroleum 207, Dynamics, Charles Herndon, associate professor of engineering science; February 25, Petroleum 10, Chemistry, Joseph Murray, professor of chemistry; March 4, Petroleum 10, Fluid Mechanics, Professor Herndon; March 18, Petroleum 10, Thermodynamics, Professor Herndon; April 1, Petroleum 10, Electrical Theory, Frank Young, associate professor of engineering science; April 8, campus Easter vacation; April 15, Petroleum 10, Economic Analysis, William Van Maanen, head, Department of Mining Engineering.

Enrollment is open to practicing engineers and engineering students. The fee is $10 for practicing engineers and $2 for college seniors.

The application deadline for E. I. T. examinations will be about March 1.

Application forms or further information may be obtained from Gus Stolz, Dean of Student Affairs or Professor Herndon.

Concert Sunday

The Butte Symphony, directed by Fred Honeychurch, will present a concert in the Montana Tech auditorium Sunday afternoon at 2:30. Students will be admitted on presentation of an activity ticket.

Featured as soloist is Dr. Carl Lobitz of the music faculty of Montana State University. He will be heard in a concerto for trombone and orchestra by Ferdinand David. This is one of the few concertos for this instrument written in the 19th century.

The orchestra will be heard in the “Clock” Symphony of Franz Joseph Haydn, Glinka’s overture to “Ruslan and Ludmilla,” and selections from “Oliver.”

During the rush hours on the subway a lecherous old man pressed close to a pretty lady and whispered in her ear. “You know, you’re rather a tasty morsel.”

“And do you know,” she replied angrily, “that it’s impolite to eat with your hands.”

Bureau Publishes New Mineral Report

The Montana Bureau of Mines and Geology has published a report entitled Geology and Mineral Resources of the Eureka and Flathead Counties, Montana, by W. M. Johns. The publication combines information contained in the earlier report with some newer work into a single comprehensive treatment of the two-county area. It is the culmination of an extensive study under a cooperative agreement with the Great Northern Railway Company (now Burlington Northern Railway) and the Pacific Power & Light Company.

Economic minerals receive major emphasis, but physiography, stratigraphy, igneous rocks, and structure are described, and their relationship to ore deposits and nonmetallic minerals of possible commercial value is indicated. More than twenty placer deposits and more than a hundred lode mines and prospects are described and illustrated by about fifty maps showing the geology and geology of the entire area at a scale of 2 miles to the inch.

Analyses of sedimentary rocks are presented in four tables, and reported production of gold, silver, copper, lead, and zinc in three tables: About two hundred references are listed, a glossary defines unusual technical terms, and an appendix provides a means for finding on the large maps all places mentioned in the text.

A copy of the report, Bulletin 79, can be obtained by visiting or writing the Montana Bureau of Mines and Geology, Rm. 200-B, Main Building, Montana College of Mineral Science and Technology, Butte, Montana, 59701. Price of the complete report and maps is $2.50.

Enrollment Reaches Record High

At the conclusion of the third day of registration February 6, for the spring semester at Tech, 891 students had enrolled as compared to 764 last spring. This represents an increase over spring semester of 1970 of 16.6 per cent, reports Registrar Frank Kelly.

Registration continues through February 19 and Kelly expects the enrollment will increase even more before the deadline. In the breakdown of figures, almost all areas of study show an increase over last spring in the number of students enrolled. Prospective freshman degree students, including those in mathematics, chemistry and engineering have risen 34.7 per cent; from 98 students last spring to 132 this spring. The number of general studies, freshman has not increased as much, however, this semester 280 have registered as compared to 238 last year.

A big jump of 48.6 per cent is evident in the number of sophomores registered for engineering, math and chemistry. Last spring 74 sophomores were enrolled in these fields. The number of sophomores general is 133 to 117.

Somewhat of a drop is seen in the number of juniors at the college. Last spring 93 were enrolled in engineering, mathematics and chemistry, while this semester 71 have registered so far. In general studies there are 45 juniors, compared to 47 last year.

The largest increase is seen in the number of seniors in the engineering fields, including math and chemistry. This is an increase of 5.17 per cent as 88 seniors are enrolled this year as compared to 58 seniors last spring.

Spring semester 1971 finds 24 students enrolled in graduate programs. This number is about the same as in other years.

The number of women enrolled in degree curricula this semester stands at 19.

Students Judge BHS Speech Meet

Among the judges for the Butte High School Invitational Speech Meet, held the weekend of February 5, were nine Montana Tech students.

Those who helped to judge were Jori Brinkhoffer, Denver, Colorado; Cheryl Due, Karlene Hirsh, Bob Miller, Art Noonan, Tom Pelletier, Ed Shea and Steve Wing, Butte.

All of these students—either participants or not—considered the experience enjoyable.

He—“Hi ya, Baby!” She ignores him.

He—(Sarcastically): “Pardon me, I thought you were my mother.”

She—“I couldn’t be, I’m married.”

NEW REVISED HERESY

by Linda Lee Holmes

Last night they elected me God. So this morning I rewrote the Bible.

Got rid of all those “Thou shalt nots!”

And reduced all religion to only two commandments: “Thou shalt love”, and “Thou shalt obey the above-mentioned commandment I wonder if I’ve got it.

A chance for re-election?”

Maybe they’ll impeach me.

P. O. NEWS

YOUR BOOK HEADQUARTERS

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Rocky Mountain Equipment Company

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William’s Camera Shop

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Tech Graduate Presents Paper


Optimizing High Temperature Steam Stimulation Operations was the topic discussed by Angrove, who is an associate engineer for Conoco in Ventura, Calif. He is originally from Butte. Angrove talked about some unusual problems encountered by his company resulting from the high temperatures required to steam wells up to 4,300 feet deep in some of its operations. His discussion dealt with different methods used to make steam stimulation profitable as well as the success or failure of each method.

According to Gustav Stolz, dean of student affairs at Montana Tech, giving a presentation of this sort before a regional meeting of the A.I.M.E. "is quite an honor." He said it is unusual that a person out of school such a short time is involved with a study as significant as one completed by Angrove. The paper Angrove prepared for the A.I.M.E. meeting represented the results of his complicated study.

Tech Gets Grant

Trustees of the R. C. Baker Foundation, Los Angeles, California, have announced that a grant for 1970-71 is in the amount of $1,000.

From the grant will come $600 scholarships, one for a junior and one for a senior. The remainder of the money is unrestricted, and according to Dr. Halbert, will be used to provide scholarships at the freshman-sophomore level.

POSTSCRIPT TO EASY RIDER by Linda Lee Holmes

I have had hundreds of hours for reflection. And though I still regret your deaths, now I wonder if death is not the only answer. Given to those who run from life, the world has entered a new stage of history, the age of the maturity of the beginning of a world civilization.

The source of this new development was a beginning of a world civilization. In 1900 the members of the faculty were: Nathan R. Leonard, president, and professor of mathematics; William G. King, professor of chemistry and metallurgy; Alexander N. Winchester, professor of geology, mining and mineralogy, and Charles H. Bowman, professor of mechanics and mining engineering.

The act of Congress providing for the organization of the State granted 100,000 acres of land for establishment of a School of Mines. The legislature of the State located the school at Butte.

The dormies feel that it's about time that the rooms in the dorm were improved, that it should have been done long ago. Doug Glaspie said the improvements in the dorm will enhance the outlook of spending another semester here and coming back next year. The dormies are generally agreed that anything would have been an improvement.

The dormies like having four electrical outlets in each room, opposed to only one in the old rooms. They like being able to regulate the heat in their own rooms. They like the acoustics, which as one dormie put it, "It's better for grooving on acid music—the only think is there isn't much acid because of the dorm's 'copulating' policies. They like the grass-green rugs (but wish it was grass).

The dormies dislike not being able to put poster's up on their walls. They also dislike not being able to have girls in their rooms. Said one dormie, "Now that we have decent rooms that we wouldn't ashamed to have girls see. It's about time to change Montana Tech's Dark Age policy of not being allowed to have girls in our rooms."

One dormie cited that fact that Bozeman has adopted Missoula's policy of allowing girls in the dorm 24 hours on week-ends, and from 1 to 12 on weeknights. "It's about time," he said, "that Tech adopt this rule also."

One dormie adequately summed up the whole idea of the new rooms by saying, "They're real FAR OUT ! ! ! ! And so they are."

Doctor—"You need to relax and get away from it all. Could you go abroad?"

Patient— "Sure could, Doc. What about new rooms?"

Doctor—"They're FAR OUT ! ! ! ! And so they are."

Dick—"Last night I was with my girl in a taxi and I snuggled up close to her."

Nick—"How far did you get with her?"

Dick—"About a half of a mile. I only had 50¢."

History of Tech

The first building on the Montana Tech campus was the Main Building located between the Library Museum Building and the Engineering Building. It was erected in 1906-68, and was then supplied with $13,000 worth of furniture and apparatus.

The institution was opened for the reception of pupils on September 11, 1906, and at that time freshman and sophomore classes were formed. The courses of study adopted required four years for their completion and led either to the degree of Engineer or Electrical Engineer.

The requirements for admission and for graduation corresponded closely to those of similar institutions in other states. In 1900 the members of the faculty were: Nathan R. Leonard, president; and professor of mathematics; William G. King, professor of chemistry and metallurgy; Alexander N. Winchester, professor of geology, mining and mineralogy, and Charles H. Bowman, professor of mechanics and mining engineering.

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THE AMPLIFIER February 19, 1971

Page Four
Chess Tournament Results Told

Two chess tournaments which began at Montana Tech in early December ended Friday, Jan. 22.

Champion of the Class A tournament is Jim Becker, Tech student from Butte. Placing second and third in this group are Dr. Gordon R. Shuck, associate professor of chemistry at the college, and another local student, Mike Claxton.

Winner of the beginners Class B tournament is Dr. Shuck's son, Gordon R. Shuck, Jr. Second place was won by Sunipond Chandruang, Bangkok, Thailand.

According to Frank Young, faculty advisor to the Montana Tech Chess Club, another tournament is planned for sometime after the beginning of spring semester. The club also is hoping to play the Butte Chess Club and the chess organizations of Bozeman and Missoula.

Poetry Contest

All college students are invited to submit verse to be considered in the Annual Anthology of College Poetry.

The students name, home address and college must be typed on each entry submitted. Failure to follow these instructions will disqualify the entry.

Goebel's study concluded that the increase of the river's temperature was not significantly enough to cause any harmful effects.

The final lecture was delivered by Prof. Joseph Kasperic. His topic was "The Economics of Pollution." Kasperic said that between 1933 and 1970, the production of pollution increased by 150 percent. The estimated cost of pollution is $131 billion to clear up water pollution; $42 billion to take care of waste disposal. These costs would result in an over-all saving to the consumer, who in the long run would end up paying for these controls anyway.

VOCABULARIA

by Linda Lee Holmes

i have given you words—

a whole dictionary full,

falling freely as i like them

into patterns joined with

crystal fragments:

but all i really want

is to give you is

a charity affair.

Captain Crook

by Linda Lee Holmes

you dance at me

from power plants and smelters;

oxides, nitrogen and carbon

monoxide from automobiles;

lead, flouride, and hydrocarbon.

Capsaicin is an increase of atmosphonic

The AMPLIFIER

For the most part these lectures were well attended by both members of the faculty and students. The lectures were very enlightening to those who were able to take the time and attend.

Ugly—"It's mighty nice of you to come to see me." Pluggy—"Don't mention it. It's a charity affair."

The Butte Hill earned the label as the "Richest Hill On Earth" not only because of its huge output of non-ferrous metals but because of its vast reserves of ores.

The amount of known ore remaining is at least as great as total tonnage extracted in the past century.

To maintain Butte's reputation is a challenge to us, to engineering and technology and to state and community cooperation.

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Miners Bank of Montana

Don Miles-Rob Worley
18 W. Park
Phone 723-6120

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by Linda Lee Holmes

i have given you words—

a whole dictionary full,

falling freely as i like them

into patterns joined with

crystal fragments:

but all i really want

is to give you is
Summer Courses Offered for Teachers

The fifth annual field and workshop course in petroleum conservation for Montana secondary and elementary school teachers will be offered again this summer by Montana Tech.

The course, which is jointly sponsored by Montana Tech and Montana Petroleum Association, will be presented on the campus of Eastern Montana College, Billings, from June 7 thru July 2, according to Dr. Kenneth McLeod, dean of academic affairs at Tech. Credits for the study program in "Mineral Resources Conservation — Petroleum" will be awarded by Montana Tech.

The four semester credit course will be coordinated by Gustav Stolz, dean of students at Montana Tech. He will work in conjunction with Ben G. Havrali, executive secretary of the Montana Petroleum Association.

Registration charges and college fees for the course will be paid by the Montana Petroleum Association, which also will provide field trip transportation. Application forms may be secured by writing to Professor Stolz at Montana Tech Butte.

Participants will be notified of their selection before April 15. Stolz explained that the faculty will be made up of about 50 authorities from as far as New York City and Tulsa, Okla., who are active in the various aspects of the petroleum industry, including geology, geophysics, drilling, production, secondary recovery, transportation, refining, marketing and research.

Stolz went on to say that the previous four years of the program have been overwhelmingly successful and that this summer "many additional Montana secondary and elementary teachers will be provided with an intimate working knowledge of the intricacies of Montana's petroleum industry and awareness of its tremendous significance to the State's economy."

Construction to be completed Soon

Expansion on the Student Union Building is expected to be completed by November 1, 1971, although there are hopes to be using some of the facilities by fall semester in September of 1971.

Facilities included in the expansion of the Student Union Building will be a new book store, double the present size, a large lounge, conference rooms, and game rooms. Also included will be a separate cafeteria for dorm students.

Partitions will separate the two cafeterias and can be removed for dances and other occasions held in the Student Union Building which require extra room.