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## The Amplifier - v.8,(a-5) no. 5

Associated Students of the Montana School of Mines

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# Montana School of Mines AMPLIFIER

Published by the Associated Students of the Montana School of Mines



Vol. VIII, No. 5

BUTTE, MONTANA

Thursday, January 10, 1963

## University Financing

By DR. EDWIN G. KOCH

Biennial budgets covering the 1963-65 biennium for the six units of the University of Montana were approved by the State Board of Regents and by the State Budget Director at the October 8 meeting of the Regents. These budgets will provide \$10,527,168 for Montana State University, \$11,085,748 for Montana State College excluding the Agricultural Experiment Station and Co-operative Extension Service, \$1,481,636 for Montana School of Mines including the Montana Bureau of Mines and Geology, \$1,118,749 for Western Montana College of Education, \$2,955,511 for Eastern Montana College of Education, and \$1,584,810 for Northern Montana College. These budgets are made up from the university millage tax income, income from veterans education, income from state land endowment, student fees, gifts and grants, sales and services, and miscellaneous sources, with the balance from state general fund appropriation. For Montana School of Mines, this analysis results for the biennium in \$170,660 from fees and collections, \$131,800 from other sources, and \$1,179,176 from state appropriations. \$255,264 is the portion of the total biennial budget allotted to the Bureau of Mines and Geology.

As a result of complete coordination and co-operation among the six university units, the State Board of Regents, and the State Budget Director over the past several months, the 1963 legislature will be presented one budget upon which all parties concerned are agreed. All unit budgets were prepared under the Board policy of maintaining existing programs, with no new or expanded programs envisioned for the coming biennium, and with all necessary monetary increases based on the 1962-63 operational level and geared to providing necessary essential operating funds on a program basis. In all phases of budget preparation and evaluation, all units of the University were given equal consideration and proportional increases over the 1962-63 base.

Salary levels are uniformly based for all units upon maintaining a competitive level with neighboring educational institutions with which they must normally compete for personnel. Increases for the 1963-65 biennium over the 1962-63 level of operation include provisions for salaries, wages, supplies and operational expenses, equipment, and maintenance. These increases for all units of the University are uniformly based, and the in-

(Continued on page 4)

## Late News

On Friday, January 11, the International Club will hold another open meeting. The subject of this meeting will be British Guiana, and the speaker will be Michael Benn of that country.

Donald J. McMillan '61 has been promoted to paste plant superintendent at the Anaconda Aluminum Company facility at Columbia Falls, Montana. Don received his bachelor's degree in Metallurgy.

Our congratulations go to Joe Cassidy on his winning the 1963 Tempest.

The Preliminary Annual Report on the mineral industry of Montana in 1962 has just been released by the regional office of the U. S. Bureau of Mines in Albany, Oregon.

## Senior Trip?

The annual debate or discussion concerning the possibilities of a senior trip is underway. Should we go? Where should we go? How long should we take? What are the expenses and so forth? It appears rather definite that some seniors will travel this spring.

The Petroleum and Geology seniors plan to travel to Denver in May to attend a convention. During their stay they intend to tour such plants as Gates rubber plant and a missile-construction plant. An invitation is extended to all seniors to take the trip. It has been pointed out that such a trip will be equally "educational" for all. Travel will be via car to cut expenses and allow for inspection of points of interest along the way. Twenty dollars was one estimate for travel expenses.

The general consensus of opinion around the Metallurgy building seems to favor such a trip; however, financial conditions are such to render such a trip almost impossible. Preparations for marriage along with present expenses already point to deficit spending by some. Others sense an injustice of a husband taking a trip while the working wife foots the bill. One metallurgical engineering student suggested the possibility of a short trip through Great Falls, Columbia Falls, and some parts of Canada.

Up until now it's "the Pet's to Denver, but the Met's can't spend'er."

## Charles Olson Wins Election

On Thursday, December 13, an election was held to select a new Delegate-at-Large for the Student Council. Three candidates indicated their willingness to run; they were Wayne Lenton, Charles Olson, and Frank Trask, III.

The final tabulation showed that Olson had a majority of the votes with 104, that Lenton was second with 67 votes, and that Trask was third with 32 votes. A total of 203 students voted, approximately one-half the student body.

## 5 Top Stories In 62

Leading the 1962 news picture about Montana School of Mines were these five major stories:

1. The college achieved the highest enrollment in its sixty-nine year history.
2. The M atop Big Butte was electrified.
3. The football team won in its forty-fifth consecutive attempt at victory.
4. The beds in the Residence Hall created an uproar.
5. The Metallurgy, and Mineral Dressing Departments received sizable research grants.

There were many other stories of importance to Montana School of Mines including a number of firsts. This was the first year in which a fraternity had purchased a residence for its members, in which Montana School of Mines undertook to offer a TV course for college credit, in which our students attended the Montana Power Company management clinic, in which Mines students went to work as drivers in the Berkeley Pit, in which NAIA recognition had come to the college.

The retirement of Earl Denny as campus foreman, the selection of Carol Dunstan as Homecoming Queen, the announcement of the seven seniors who "made" Who's Who, the address of Justice Harrison to the graduating seniors, the cost of living increase in the Residence Hall, the addition of four new members to the faculty of the college, the announcement of Sahinen's appointment as associate director of the Montana Bureau of Mines and Geology, and Stout's headship of the Department of Mechanics and Electricity were all items of exceptional interest.

### College Enrollment Reached 412

In 1962 the college enrolled over 400 students. When final figures were reported to the executive secretary of the university system at the close of registration on October 5, the first semester became numerically the largest in the college's history.

More than sixty girls were registered in the college's various offerings. The addition of so many young women has had a noticeable effect about the campus.

### The Electrified M

On Wednesday, May 1 Governor Tim Babcock threw the switch that gave Butte a lighted

M. The project which had been undertaken with the cooperation of the alumni, students and faculty created a beautiful sight for the entire community.

The M which measures 90 feet by 90 feet was built in 1910 atop Big Butte. The placing of retaining walls and reshaping of the letter gave it the rigidity needed for the installation of wiring.

The change in the color of the bulbs to honor various holidays and seasons has made our M the pride of Butte. Red, white and blue bulbs heralded the Fourth of July and red and green bulbs an-

(Continued on page 4)

## EXAMINATION SCHEDULE First Semester 1962-1963

### FIRST SEMESTER 1962-1963

#### Friday, January 25, 1963

9:00 to 11:50

HSS 100—Albertson Eng. 104  
HSS 101—McBride Eng. 104  
HSS 101—Chance Met. 115  
Chem. 215—McLeod Met. 216  
Phys. 301—Nile Pet. 10  
Mech. 311—Stout Eng. 101  
Geol. 405—Earll Main 212-A

1:15 to 4:05

Eng. Dr. 101—  
McAuliffe Eng. 101  
Chem. 321—Murray Met. 214  
Geol. 303—Hall Main 200  
Met. 311—Smith Met. 115  
HSS 451—Pickney Main 115

#### Saturday, January 26, 1963

HSS 261—Laity Eng. 104  
Math. 005—Staff Main 103  
Geol. 301—Earll Main 200  
Chem. 401—Ensley Met. 214  
Met. 471—Griffith Met. 115  
Pet. 403—Stolz Pet. 108

HSS 171—Pickney Eng. 104  
Geol. 411—Cox Main 215

#### Monday, January 27, 1963

Math. 007—Staff Eng. 104  
Math. 101—Staff Eng. 104  
Phys. 201—Nile Eng. 101  
Chem. 331—Ensley Met. 216  
Min. 301—Vine Eng. 208-E  
Pet. 301—Harnish Pet. 108  
Geol. 401—Earll Main 200  
M. D. 403—  
McGlashan Met. 214

Geol. 101—Hall Eng. 101  
and 104  
HSS 301—Chance Main 112  
Geol. 409—Cox Main 215

#### Tuesday, January 28, 1963

Chem. 101—McLeod Met. 216  
Chem. 103—Murray Met. 214  
Math. 201—Staff Eng. 104  
Met. 351—Hahn Met. 115  
Mech. 441—Stout Eng. 101

Geol. 201—Earll Main 200  
Mech. 351—Young Pet. 107  
Min. 401—Vine Eng. 208-E

For courses not listed above the instructor will arrange for the time and place of examination.

In cases of conflict in the above schedule, students will make arrangements with the instructor of the higher numbered course for an examination at some other time.



Almost ready to throw the switch.



## OUR ATHLETES

All persons connected with Montana School of Mines are proud, and we are proud for a just reason. Two of our more able football players have been honored by the National Association of Intercollegiate Athletics with honorable mentions on their All-American football team. We are further elated by the fact that no other athlete or school in the Montana Collegiate Conference has been so honored.

Charles "Fuzzy" Olson and George Sever are the two that, by dint of their football prowess, brought glory to MSM. This nationwide recognition proves to us, beyond the shadow of a doubt, that people who participate in sports for the love of the game are among the best of athletes. It is a notable fact that our players at MSM play ball for no more remuneration than the possibility of being adorned with a figurative olive wreath. We feel that this fact may be one of the reasons that our players were selected over others in our conference.

Contrary to some people's beliefs we are certain that this is one of the highest honors that could be accorded to these players and to our school. We hope that in the future, the continuation of our present sports policy will bring many more such honors to our campus.

## PARTICIPATION

An election was held recently on the Montana School of Mines campus and people were completely apathetic over it. The candidates hardly went to the trouble to make themselves or their platforms known. Only one went to the trouble of putting up posters identifying himself, but he gave no indication of his platform, ideas, or qualifications. Another candidate hoped that people would remember his appearance, for he made no attempt to have his identification placed on campus. This candidate did, however, list his platform and qualifications, which was an exemplary act. The last candidate made no attempt whatsoever at campaigning. The election became a popularity contest. However, the electorate is to share much of the blame, for less than half of the student body voted. Furthermore, of those that voted, there were many that did not even find out what they were voting for.

This situation is indicative of a more serious problem that exists on our campus. A certain inertia exists among the students in regard to their participation in valuable extra-curricular activities. For instance, less than one-fifth of the total membership of the Anderson-Carlisle Society attended a valuable speech given on December 17. Remember, there is more to your education than the perfunctory attendance of classes.

### Academic Calender

1963

(Subject to Change)

#### FEBRUARY

- 2—First semester ends
- 4—Registration Day
- 14—Valentine Dance

#### MARCH

- 29—Easter Dance

#### APRIL

- 7-14—Easter Recess

#### MAY

- 1—"M"-Day
- 30—Memorial Day Holiday

#### JUNE

- 3—Commencement Day
- 7—Second semester ends
- 10—Mine surveying begins
- 22—Mine surveying ends

### COMING EVENTS

JANUARY

(Subject to Change)

- 10—Faculty Women's Club, Dr. Koch's residence
- 12—Student Wives Meeting, Copper Lounge, 7:30 p.m.
- 12—Mines vs. Northern (here)
- 16—Convocation, 10:15 a.m.
- 17—Student Wives Bridge Club, Copper Lounge, 7:30 p.m.
- 18—Mines vs. Northern (there)
- 19—Mines vs. Carroll (there)
- 22—Mines vs. Western (here)

## In Recognition



MRS. DOROTHY NILE

By BRENDA BROPHY

There are on the School of Mines campus many hard-working but unrewarded staff members.

Mrs. Dorothy Nile, who runs the book store has a tremendous job to do. Mrs. Nile was born in Cascade Locks, Oregon and attended schools there. She is married to Dr. Stephen Nile, professor and head of the Department of Physics at Montana School of Mines.

During past years Mrs. Nile worked in various libraries back East and was a computer in the Mathematics and Physics Department at Princeton University. This is her nineteenth year of service at the Montana School of Mines.

The book store entails a lot of work. One of a few of the jobs that have to be done is: ordering books and supplies and counting and selling them. Mrs. Nile also runs a verifax copying machine, binds reports and laminates things in plastic.

Mrs. Nile, an avid photographer, spends a great deal of time on her hobby, photographing anything that catches her eye. In years past she took pictures for the Magma and occasionally photographs functions on campus. In addition to photography, Mrs. Nile also enjoys hiking and mountain climbing.

### Campus Ogranizations

#### SIGMA RHO FRATERNITY

In 1894, at the Michigan School of Mines, the first professional fraternity was established for the purpose of aiding and bringing the members more closely together, and helping each other in every way pleasantly to pass their college days. The fraternity was established for undergraduates in the mineral industries and was named Sigma Rho.

In 1927 a chapter of Sigma Rho was established at Montana School of Mines and has been an active organization on Montana School of Mines campus since that time. The newest addition to the Sigma Rho chapter is the Fraternity House, which was purchased in the spring of 1962.

### The Old Timer



"Some men grow, others swell."

## MSM To Have Freedom Shrine

Montana School of Mines will soon display a collection of twenty-eight historical documents symbolizing freedom in the United States. This collection, called the Freedom Shrine, can be seen in both high schools in Butte.

After five years of indecision as to where this display would be hung, it has been agreed by the Student Council and the Board of Control of the Student Union Building to display it in the study room of the Copper Lounge. Early in January, dedication ceremonies will be held with the National Exchange Club which provided the Shrine. The exact date has not been decided upon.

A list of the documents in the collection follows:

Declaration of Independence, Bill of Rights, "Rough Draft" Declaration, Franklin's Epitaph, Patrick Henry's Instructions, John Paul Jones' letter, Deborah Gannett's Deposition, Treaty of Paris, Washington's "Last Letter", Washington's First Inaugural, Northwest Ordinance, Washington's Constitution, Jackson's Letter, "The Star Spangled Banner", Monroe Doctrine, Emancipation Proclamation, Gettysburg Address, Lee's Letter, 13th Amendment, Overlord Agreement, Selection of Eisenhower, McAuliffe's Christmas Message, German Surrender, Japanese Surrender, United Nations Charter.

Associated with this project are professors Harnish and Stout.

## Anderson-Carlisle Addressed

Clifford Hicks, Western Field Secretary of the American Institute of Mining, Metallurgical, and Petroleum Engineers, spoke to the Anderson-Carlisle Society of the Montana School of Mines about the functions and duties of the AIME.

Mr. Hicks graduated from the University of Wisconsin in Mining Geology. He worked for the Army's Corps of Engineers for three years after graduation, and then worked for the Anaconda Company for thirteen years. When he left the Company he was Senior Geologist at the Kelley Mine. The AIME has been his employer for the last three years.

His speech included helpful suggestions to the society about methods of increasing membership by promotional activities. The meeting was followed by refreshments.

## WOMENS NEWS

By CAROL GRIFFITH and DOREEN SHEA

### Christmas Tree Party Held

A Christmas tree party was held by the Associated Women Students on the evening of December 15 in the Copper Lounge. All co-eds and their dates and the Sigma Rho fraternity members were invited. Refreshments were served. Peggy Davis acted as chairman of this activity.

### Co-Eds Have Christmas Tea

The A.W.S. of Montana School of Mines held a tea in the Co-ed room on the afternoon of Dec. 14. Salad, tea and cookies were served. All girls attending exchanged gifts. Among the treasures received were one live gold fish and one live turtle. Ask Kay Chambers and Barbara Rauch about this. Mrs. Louise McBride, advisor to women students, was also present. All arrangements for this party were made by Beverly Phillips.

### The Sugar Plum Fantasy

Despite the unfavorable comments of the males on campus about the selection of a theme for our dance this year, it nevertheless turned out to be a huge success. The Copper Lounge was adorned with decorations in the true spirit of Christmas. Those attending danced to the music provided by the Black Knights of Butte.

### Mrs. Koch Offers Open House

Mrs. E. G. Koch invited all the co-eds at Montana School of Mines to an open house held on Friday, Dec. 21st, in her home. This was her way to extend holiday greetings to the women students on campus. All the girls would like to express their appreciation to her for her graciousness and hospitality.

## Young Speaks In Utah

Mr. Francis M. Young, Montana School of Mines Department of Mechanics and Electricity, presented his paper "The Secondary Breaking Effect of High-Frequency Electric Energy Applied to Rock Fragments," at a December 13 meeting of the Utah Section of AIME.

The meeting, at which Mr. Young discussed the results of work conducted under a research grant to Montana School of Mines by the Anaconda Company, was held in the Newhouse Hotel, Salt Lake City, Utah. He described the methods utilized and some of the unknowns in the new rock breaking technique that was shown to be feasible by his research.

## AMPLIFIER STAFF

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## Club News

### Sigma Rho Fraternity

Sigma Rho Fraternity members living in the house have initiated the practice of inviting several guests for Sunday dinner. On December 16, we were pleased to have Marvin Senne, Regent of Theta Tau Fraternity, Mike Arne, Paul Komarek, and Kent Taylor for dinner. For future Sundays the fraternity plans to invite officers of clubs and organizations, students, and faculty members.

The weekend before Christmas vacation we made a major addition to the first floor furnishings of the house. Using Dave Rovig's truck, some of the more beefy members moved in an upright piano. Earlier in the week the fraternity voted to purchase the instrument. The piano, formerly a player type, is in good condition, and it reduces the bareness of the large living room.

### Glee Club

The officers are Don Hruska, President; Janice Roberts, Vice-President, and Sharon Breen, Secretary-Treasurer. Don Hruska, Jon Engleking, Sam Higginbottom, and Bill Coughlan recently formed a quartet. Professor Smith is planning some programs following the Christmas holidays.

### Chess Club

The Chess Club held its first meeting on Monday, December 3. Officers elected were Bob Norton, President; and Carole Anne Stevens, Secretary. The advisor is Professor Adam J. Smith. A chess tournament is being planned following semester examinations.

### International Club

On January 11-12 the Third Annual Montana Model United Nations will be held at Rocky Mountain College, Billings. Ornie Gutfeld will head the School of Mines delegation, which will include Mansoor Awan and Don Hruska. The MSM delegation will represent the Philippines.

### Theta Tau Initiates

Theta Tau Lounge was the scene of the initiation of three new active members on the evening of Friday, December 15. John Ceserani, Metallurgy, Ken Arne, Mining, and Bill Watkins, Petroleum, were admitted to Psi Chapter. Following the ceremony, the new members attended a party and an impromptu limbo session at one of Butte's popular night spots.

## Scholarship; Loan Funds

Although the cost of an engineering education at Montana School of Mines is low, many students with high ability need assistance in the form of a scholarship or loan.

Advanced scholarships are awarded to undergraduates in attendance at the Montana School of Mines, exempting the holder from state fees for the following year. The basis of award includes scholastic record, other especially meritorious student performance, financial need, and the character and promise of the applicant. This scholarship is granted for one year, but the individual may renew his application for successive years. These advanced scholarships are awarded automatically to five percent of the engineering students in the sophomore, junior, and senior classes, whose grade point indexes for both semesters of the preceding year are highest.

In addition to these scholarships, awards by various industrial firms are granted each year

to worthy students. Among these grants is the Billings Petroleum Section of the A.I.M.E. Scholarship. This award of three hundred dollars is made annually to a senior or graduate student enrolled in the Department of Petroleum Engineering who has high moral character promising credit to his profession. He is required to be a junior or student associate of A.I.M.E. Another industrial firm grant is the American Smelting and Refining Company Scholarship which awards one thousand dollars, five hundred of which is awarded to a student of mining and five hundred dollars to a student of metallurgy. These two students are chosen by their respective departments. A third industrial firm award is the American Society for Metals Scholarship which offers an undergraduate scholarship to a student in Metallurgical Engineering in the amount of five hundred dollars. Award is based on recommendation of instructors, scholarship, character, and engineering promise. Another industrial firm award is the Anaconda Company Scholarship from a grant of \$3000 payable to sons and daughters of employees of the company. Recipients must be engineering students in the Mining, Metallurgical Mineral Dressing, or Geological Engineering curricula. In addition, the Anaconda Company Research Fellowship of \$7500 per year has been granted to support five cooperative graduate research fellowships in the Geology, Metallurgy, Mining and Mineral Dressing departments. Other industrial firm awards are the Continental Oil Company Fellowship and Great Falls Breweries Montana Distributors Scholarship which offer grants to students evidencing financial need, leadership and citizenship. In addition to these scholarships, awards such as the Montana School of Mines Student Loan Fund, Gino Diamant Scholarship, Theodore Simons Memorial, National Defense Student Loan Fund and others are granted in amounts according to the financial need of the student.

The applications for these scholarships and loans must be in the Registrar's office by March 1 and are awarded for the following academic year.

## Alumni Group Is Formed

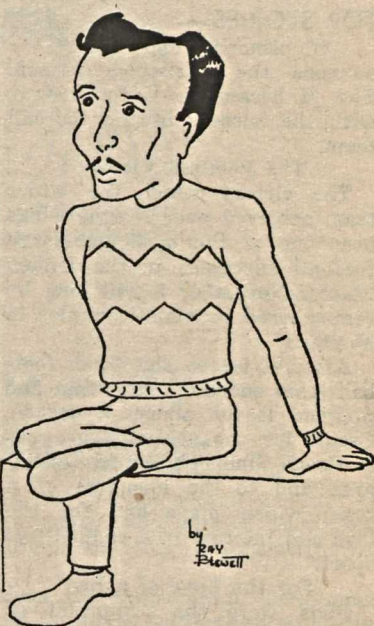
At an initial gathering of Mines graduates in Billings, Montana, plans were formulated to organize an alumni club in the Billings area. The main purpose of such an organization would be to promote the School of Mines and particularly the Petroleum Engineering Department.

Bill Pickard '62 who has been instrumental in organizing the alumni in the area reports that the following graduates attended the initial gathering: Dick Siguaw '57, Howard R. Lowe & Assoc.; Gus Coolidge '59, Humble; Doug Wadman '60, Humble; Joe Bato '59, McAlester Fuel; Art Talp '55, Humble; Dick Engbretsen '59, Pan American; Jack Nordquist '45, Consultant; R. C. Rockwell '49, Mud Control Labs Inc.; Arden Blair '48, Consultant; R. G. Mock '60, Shell; and Gary Riley '60, Schlumberger.

The organization meeting will be held in the Petroleum Club in Billings on the second Tuesday of January. Once organized, the meetings will follow a regular monthly schedule.

Additional graduates in the Billings area who have expressed interest in an alumni club but were unable to attend the initial meeting are: John Warren '50, Farmers Union; Wes Davis '43, Texaco; Willard Leskela '48, Phillips; Miles Pepper '55, Amerada; Bob Newman '61, U. S. Govt.; Dick Osterman '59, Northern Testing Lab.; Duane Diekman '58, Eastern Montana College; Bob Covlin '53, Pan American; Dick Hunt '61, Pan American; and Norm Warberg '50, Consultant.

To spur contributions to its alumni fund, Bates College (in Maine) offers trading stamps to donors.



I resolve not to wear bright sweaters in 1963!

## Russell Painting In Dormitory

For many years Montana School of Mines has had a painting by the late famous Charles Russell. The value of this nameless painting has been estimated at approximately \$3,000. The painting was finished in 1902 and is a water color original. It hangs in the main lounge of the Residence Hall.

It was given to the college in memory of the late John Gillie, 1858-1941, "one of the founders of the school and a distinguished Mining Engineer who devoted his life to the development of the mines in Butte." It was presented by his wife and daughters.

They say Venice will be completely covered by water in a century.

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These new ventures, requiring large investments, are proof of our faith that the Montana minerals industry can be placed on a solid, competitive basis. They also express confidence that Butte, even after 100 years, is still young as a mining district.  
  
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