**MONTANA SCHOOL OF MINES**

Published by the Associated Students of the Montana School of Mines

**Vol. IX, No. 4**

**SAPERSTEIN RECEIVES APPOINTMENT**

Rhodes, Page 1

Lee W. Saperstein, a senior in mining engineering and editor of the Amplifier, announced his resignation from the Mines staff as of today by the Mines staff and members of the Montana School of Mines. It was announced by Professor William W. Chance, a member of the Amplifier faculty.

**Career of Saperstein—Honors**

Saperstein, who was the first student from the Mines to be selected for the Rhodes Scholarship, where he attended the public only once. He received his first significant honor from the Mines High School Science Society, where he was elected to the茅rary of the West, next year. He has also received the American Society of Mechanical Engineers, a fellow of the AIME, and a fellow of the I.E.E.E. He is a member of the American Institute of Mining Engineers and a member of the American Society of Civil Engineers. He is a member of the Montana Mining Association and a member of the American Society of Mechanical Engineers. He is a member of the American Institute of Mining Engineers and a member of the American Society of Civil Engineers.

To add to his many other honors, Saperstein was conferred, with eight others from the Mines, to the American Association for the Advancement of Science, 1949. He spent last summer in Germany and traveled throughout Northern Europe. He is a member of the Amplifier faculty and is a fellow of the AIME. He is a member of the American Society of Civil Engineers. He is a member of the American Institute of Mining Engineers and a member of the American Society of Civil Engineers. He is a member of the Montana Mining Association and a member of the American Society of Mechanical Engineers. He is a member of the American Institute of Mining Engineers and a member of the American Society of Civil Engineers.

**A.I.P.G. Founding Convention**

EARL, GACH ATTEND


The first meeting of the Convention was held in the Golden Convention Hall, Tuesday, November 14, 1963, at 2 p.m. The Convention was opened by President Earl S. Koch, who reviewed the history of the organization and its objectives.

The Convention adjourned at 3:30 p.m. and reconvened at 7 p.m. The Convention was adjourned at 10 p.m.

**SAPERSTEIN COMPETES FOR RHODES SCHOLARSHIP**

by Gary Traglawn

Lee W. Saperstein, a senior in mining engineering and editor of the Amplifier, announced his resignation from the Mines staff as of today by the Mines staff and members of the Montana School of Mines. It was announced by Professor William W. Chance, a member of the Amplifier faculty.

**AMPLIFIER**

Tuesday, December 17, 1963

**President Koch with new Who’s Who members: Calvin J. Strobel, Concordia College; Peter Jensen Evans, Carroll College; and Frank C. Harris, University of Montana.**

The Christmas Formal Dance will be held in the Y.M.C.A. on Saturday, December 20, 1963, at 8 p.m. The dance is sponsored by the Student Council and the Free University. Office of the Free University.

The Christmas Formal Dance will be held in the Y.M.C.A. on Saturday, December 20, 1963, at 8 p.m. The dance is sponsored by the Student Council and the Free University. Office of the Free University.

**CHRISTMAS DANCE**

The Christmas Formal Dance will be held in the Y.M.C.A. on Saturday, December 20, 1963, at 8 p.m. The dance is sponsored by the Student Council and the Free University. Office of the Free University.

**SAPERSTEIN COMPETES FOR RHODES SCHOLARSHIP**

by Gary Traglawn

Lee W. Saperstein, a senior in mining engineering and editor of the Amplifier, announced his resignation from the Mines staff as of today by the Mines staff and members of the Montana School of Mines. It was announced by Professor William W. Chance, a member of the Amplifier faculty.

**Career of Saperstein—Honors**

Saperstein, who was the first student from the Mines to be selected for the Rhodes Scholarship, where he attended the public only once. He received his first significant honor from the Mines High School Science Society, where he was elected to the茅rary of the West, next year. He has also received the American Society of Mechanical Engineers, a fellow of the AIME, and a fellow of the I.E.E.E. He is a member of the American Institute of Mining Engineers and a member of the American Society of Civil Engineers. He is a member of the Montana Mining Association and a member of the American Society of Mechanical Engineers. He is a member of the American Institute of Mining Engineers and a member of the American Society of Civil Engineers.

To add to his many other honors, Saperstein was conferred, with eight others from the Mines, to the American Association for the Advancement of Science, 1949. He spent last summer in Germany and traveled throughout Northern Europe. He is a member of the Amplifier faculty and is a fellow of the AIME. He is a member of the American Society of Civil Engineers. He is a member of the American Institute of Mining Engineers and a member of the American Society of Mechanical Engineers. He is a member of the American Institute of Mining Engineers and a member of the American Society of Civil Engineers.

**State of the Union**

The states of the Union are grouped into eight districts or six states, each for the purpose of making these appointments. A screening competition is held annually in every state. For each state an appointee is recommended by the Committee of Selection (that is, a committee usually sits in Missoula), which may nominate two candidates to appoint before the District Committee. Each District Committee then selects from the 12 or 14 candidates so nominated, but not more than four who will represent their states (and members of the same profession) in the District Committee and the Senate.

**Selection Committee andCandidates**

The members of the Montana Selection Committee are Mr. E. E. Miller, secretary, Missoula; Dean Nathan M. Hause, Missoula; Mr. Roger M. H. Hunsaker, Missoula; Professor Paul H. Grindley, Missoula; Professor Howard A. Johnson, Butte; and Professor William W. Chance, president of the H.S.S. Department of Mines.

The other Montana candidates to be interviewed are Donald E. Hunsaker, Rocky Mountain College, Billings; Dr. H. G. Franklin, Harvard University, Boulder; and Mr. Edward E. Setz, Carroll College, and the California Institute of Technology.

**Sires Presents Program**

Sires presents Program, a series of programs of the U.S. Bureau of Land Management, Billings, Montana, for the Montana Association of Mining Engineers, at 7:30 p.m. in the Museum Hall, Thursday, December 13, 1963.

The program will include a presentation of the new system of records and procedures for the Bureau of Land Management. The program will also include a discussion of the land. Two years is the minimum time that Montana School of Mines. It has been discovered that Montana will be among the states in the country in achieving its goals.

**Cecil Rhodes in that section of his son, Butte; and Professor William W. Chance, president of the H.S.S. Department of Mines.**

The other Montana candidates to be interviewed are Donald E. Hunsaker, Rocky Mountain College, Billings; Dr. H. G. Franklin, Harvard University, Boulder; and Mr. Edward E. Setz, Carroll College, and the California Institute of Technology.

**Selection Committee andCandidates**

The members of the Montana Selection Committee are Mr. E. E. Miller, secretary, Missoula; Dean Nathan M. Hause, Missoula; Mr. Roger M. H. Hunsaker, Missoula; Professor Paul H. Grindley, Missoula; Professor Howard A. Johnson, Butte; and Professor William W. Chance, president of the H.S.S. Department of Mines.

The other Montana candidates to be interviewed are Donald E. Hunsaker, Rocky Mountain College, Billings; Dr. H. G. Franklin, Harvard University, Boulder; and Mr. Edward E. Setz, Carroll College, and the California Institute of Technology.

**Sires Presents Program**

Sires presents Program, a series of programs of the U.S. Bureau of Land Management, Billings, Montana, for the Montana Association of Mining Engineers, at 7:30 p.m. in the Museum Hall, Thursday, December 13, 1963.

The program will include a presentation of the new system of records and procedures for the Bureau of Land Management. The program will also include a discussion of the land. Two years is the minimum time that Montana School of Mines. It has been discovered that Montana will be among the states in the country in achieving its goals.

**Sires Presents Program**

Sires presents Program, a series of programs of the U.S. Bureau of Land Management, Billings, Montana, for the Montana Association of Mining Engineers, at 7:30 p.m. in the Museum Hall, Thursday, December 13, 1963.

The program will include a presentation of the new system of records and procedures for the Bureau of Land Management. The program will also include a discussion of the land. Two years is the minimum time that Montana School of Mines. It has been discovered that Montana will be among the states in the country in achieving its goals.
MANAGEMENT

Too often, we have been told about many conditions on campus to the extent that we feel that this is not the direct concern of a student newspaper; but now we realize that this is not the case. Complaints brought to us by students and faculty alike are, for example, the icicles that form on the buildings, which are not only an aesthetic damage, but a health damage should they fall on a person; the dirt that often lies in corridors and classrooms; the unwashed blackboards; the garbage that is often left in the Student Union Building. Although much of this refuse is left by the students and the proper blame for it should be attached to them— and divers other woes Dohler criticisms. We sincerely hope that the above irritations may be removed without the manifestation of further hard feelings.

WOMAN'S RIGHTS

It is high time that we women in the student body stand up and be counted. Girls, assert yourselves; follow the footsteps of noble leaders such as Carrie Nation and take control of your hallowed rights. "Equality with men" should be your motto!

What are we getting at? The cool room is our target. We are not suggesting the abolition of this sanctum sanctorum and the creation of a laboratory—it was previously a lab, but a whole new building was built to replace it—rather, we are suggesting a change in purpose. It is easily recognized that there is a disparity between the women and the men as concerns this room. It is obvious that the large numbers of men are not provided with bedrooms on campus, but yet the women have created one for themselves. We feel that before a stigma of untidiness on campus, we should condition this circumstance and make themselves equal to the men.

Our suggestions. First, remove the furniture, which is presently inadequate, and replace it with wardrobes or lockers sufficient for every woman's needs. Secondly, do your resting at home, for we have here an exhibition of higher learning, not an old people's home. Lastly, do not feel that, following the first two solutions, you are destroying your inalienably feminine rights. Look at this room and all the attendant nuisances. Is there a greater symbol of your inalienably masculine rights? No! Mark this as a matter of science. Under the present setup, this room is overcrowded and replace it with wardrobes or lockers sufficient for every woman's needs.

We feel that before a stigma of untidiness on campus, we should condition this circumstance and make themselves equal to the men.

AMPLIFIER STAFF

Editor: Lee Saperstein
Make-Up and Copy Editor: Mike Brennan, June Quinn
Feature Writer: Mike Brennan
Sports Editor: Calvin Strobel
Assistant Sports Editor: Tom Dewey
Business Editor: Lee A. Petersen
Photographers: Don Ulsh, Jerry Young
Reporters: John Dabrowski, Joe Healy
Columnists: John Evans, Mary Jane, Bernard Vetter

BUSINESS STAFF

Business Manager: Frank Thrall III
Business Ad Solicitors: Ann Mullany, Mary Kay Larsen, Donna Burke

Subscription Rate $1.50 Per Year

Published bimonthly during the academic year by the Associated Students, Montana School of Mines, Butte, Montana. Entered as second-class matter, March 3, 1879, at the Post Office at Butte, Montana, under the Act of March 3, 1879, as amended.

INTERVIEW SCHEDULES

December 16—Kaiser Aluminum & Chemical Corporation (Company is to be interviewed by the Metallurgical and Mineral-Dressing Engineering. Prof. D. W. McGlashan in charge of interviews, Met. Bldg.


Tuesday, December 17, 1963
THE MONTANA SCHOOL OF MINES AMPLIFIER Page Three

Engineering-In-Training Tests
The EIT test is the first step a graduate engineer must hurdle toward his registration as a professional engineer. It is given once a year either in April or May. The test is an eight-hour exam administered by a member of the Montana State Board, and a fee of $10 is charged for an application to be examined. Upon successfully passing the exam, the graduate engineer is registered as an Engineer-In-Training. If he fails this test, he may take it again the following year.

The engineer is examined for his knowledge of the ten basic engineering sciences: mathematics, physics, chemistry, electronics, electricity, statics and dynamics, mechanics of materials, thermodynamics, heat power, and fluid mechanics.

Here are a few sample questions which are given on such a test. Answers will appear in the next issue of the Amplifier.

Economics: A $2,000 3% bond will mature in ten years and can be purchased for $1,850. The interest earned on the bond will be $180 annually. According to this schedule, if the buyer holds to maturity, collects all interest when due, and reinvests the interest in a 3% savings fund, what is the nominal rate of interest he will have realized on his investment will be...

Electrical: If an 8-ohm resistor is connected in series with a 6-ohm resistor, the combination is connected in parallel with a 6-ohm resistor, and the connection is connected in series... what is the total resistance?

MAGGIE ANN'S
39 E. Park Place
"THE CAMPUS SHOP"

Compliments of
Ed, Phyllis and Bernie
136 WEST PARK

THE LEN WATERS MUSIC COMPANY
YOUR BEST MUSIC AND
INSTRUMENT SERVICE
119 North Main, Butte
PHONE 721-7384

"THE CAMPUS SHOP"

U. S. ROYAL TIRE CENTER
375 South Montana
Butte Phone 723-3217
YOUR SAFETY CENTER

Ellis Office Supply
ENGINEERING SUPPLIES
129 N. Main
Butte Phone 723-8183

PHIL JUDD
SPORTING GOODS AND
HARDWARE STORE
80 East Park St., Butte, Montana

Leggot Barber Shop
Where Mines Students Get CLIPPED
Tom Miller
52 W. Broadway, Butte

RESIDIBILITIES
This is the time for reflection and resolution. Every citizen should review what contribution he is making and what he should make to his nation, his state and his community.

If he wants to continue to enjoy the privilege of living in a democracy, he must be willing to accept fully the inherent responsibilities of citizenship.

If he believes in our dynamic American economic system and its dependence upon free competition and private initiative, he must encourage its continuance, must defend it from attack.

ANACONDA COMPANY
"A Partner In Montana's Progress"
Meet The Orediggers

by Col. Sorek

Every year a group of men here at the School of Mines sacrifice long hours of potential study time for the grueling test of the cage season. The obvious evidences of glory are not always the exciting things about these men is their reason for being out on that basketball court on Friday and Saturday nights.

If dedication and determination were the only prerequisites for success we would win the games in a game in which size and experience are controlling factors. The Orediggers are but the shortest team in the Montana Intercollegiate Conference. In addition to this handicap, many of them have played little or no basketball at school, yet their first taste of varsity competition under the tutelage of Coach Ed Simonich here at the School of Mines. They play basketball because, for them, the game instills a personal satisfaction and a sense of achievement that no other exercise can match. And no matter what their major, even if it be the study of geology, their enthusiasm and alertness is a credit to the Orediggers.

Beginners with this issue of The Amplifier, the men who will represent the School of Mines for the game in which size and experience are controlling factors. The Orediggers are man for man, 24 inches shorter than the Ricks cage. They: lay basketball because, for them, the game instills a personal satisfaction and a sense of achievement that no other exercise can match. And no matter what their major, even if it be the study of geology, their enthusiasm and alertness is a credit to the Orediggers.

John Badovinac

John (nicknamed “Baby John”) never played on a basketball team before coming to the School of Mines. During his first season with the Orediggers, John, now a two-year letterman, averaged 16 points per game, an impressive performance for an initiate. Taking the floor against teams like Rocky or Carroll, John, though standing 6’2”, was dashing into a herd of giraffes, even foot. “Baby John”, but he doesn’t need a big-game rifle to shoot. He’s got a forest of legs enroute to the basket. John’s interest in sports also extends to running—his court concentration on the boards for he is a workhorse on the basketball team as he led the conference in scoring opportunities, their appearance first-game jitters contributed to the society by the A.S.S.M. During the meeting, the months of December 11, at 8 o’clock in the physics’ lecture room. The guest speaker was Mr. Harry R. Gill, chief technical engineer of the Permanente Cement Plant at Montana City. He showed pictures of the automated processing equipment and adjacent installations. Approximately 100 color slides were shown, displaying all the features throughout the plant. He then broke various phases of the operation and discussed the mining, milling and geological aspects of the cement industry. It was pointed out that the main market and uses of this plant is the Yellowtail Dam, which is being built near Hillings. He then answered questions concerning this new installation. Coffee and doughnuts were served after the meeting.