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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. X, No. 11

BUTTE, MONTANA

Wednesday, May 26, 1965

M-DAY ELECTION RESULTS

Congratulations to the newly elected student body officers. Fifty-five per cent of the student body cast their ballots during the "M-Day" election, choosing the following students to lead them next year:

Bill Thompson, a Sigma Rho candidate, is the new student body president. Bill is also president of the junior class, president of the Anderson-Carlisle Society, and the business manager of the Amplifier. He is an honor roll student, majoring in mining engineering, is married and has one child.



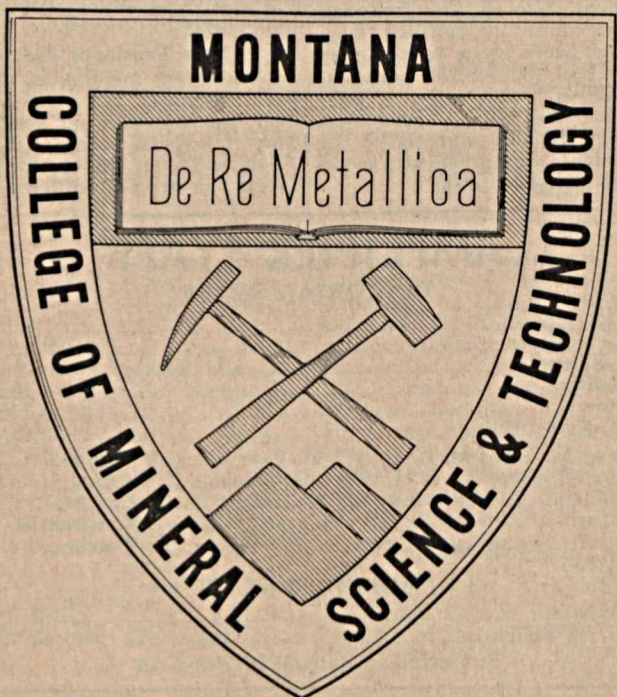
Vice-President is Georgeann Thurston, Independent Party a sophomore engineering science student. She is the first coed in MSM history to be elected to this office. With a grade point average of 3.5, Georgeann is also on the honor roll.

Bill Daily secured the office of Secretary Treasurer. Bill is a sophomore honor roll student taking Petroleum Engineering. He is active in sports, an M Club member, a member of Newman Club, and was recipient of a Fees Scholarship. Bill also is of the Independent Party.

Delegates are Theta Tau candidate Dave Koskimaki and Independent Party candidate Tom Downey. Dave is also Duke of the Copper Guards. He is an honor roll student, a sophomore in metallurgy, and recipient of an Anaconda Scholarship and a Fees Scholarship. Tom is active in sports, an honor roll student, and a member of M Club, Newman Club, the General Students Club, and Circle "K" Club. He is also Associate Editor of the Amplifier, assistant manager of the SUB, and recipient of an Advanced Fees Scholarship.

New Shield

Because of an act of the recent legislature, the name of the Montana School of Mines has been changed to The Montana College of Mineral Science and Technology. This new name for the school also will introduce a new shield. The wording of the old shield, MONTANA SCHOOL OF MINES has been changed to MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY. The familiar interior of the shield with the words "De Re Metallica" and the tools of the engineer with the mountains below remain the same.



1965 IN PICTORIAL REVIEW
(See Pages 4 and 5)

GRADUATION SCHEDULE

Graduation commencement will be held on June 6, 1965 at 3:30 p.m. in the Library Museum Building. There will be 38 Senior Degrees, 9 Graduate Degrees, 5 Professional Degrees, and 2 Honorary Degrees. A reception will be held in the Copper Lounge immediately following commencement, which is sponsored by the Faculty Wives Club.

The Professional Degrees to be presented are:

Metallurgical Engineer, honoris causa:

William Robert Opie
Albert Wilbur Schlechten

Geological Engineer, honoris causa:

Edgar Arthur Scholz

Petroleum Engineer, honoris causa:

William Heston Peterson

Engineer of Mines, honoris causa:

Henry Frank Johnson
Geological Engineer:
Clifford Arthur Wendel

Honorary Degrees:

Donald W. Anderson, Dr. of Letters honoris causa
Vincent D. Perry, Dr. of Science in Geological Engineering, honoris causa.

Several luncheons are being planned to honor the graduates and their families.

The Senior Luncheon in honor of mothers and wives is to be held on June 5, at 1:45 at the Finlen Hotel.

The Alumni banquet is to be held at 7:00, on June 5, at the Finlen Hotel.

SIX PROFESSORS LEAVING

Next year the School of Mines will be lacking six of its present faculty members. Two are taking leaves of absence and the other four are leaving permanently.

Dean McAuliffe

After forty-two years of teaching at MSM, Dean D. Charles McAuliffe, long-time and devoted teacher, coach, and administrator is taking a one year leave of absence. Dean McAuliffe is a native of Butte and graduated from Butte High School. In 1919, the Dean received an E. M. degree from MSM. The following two years he taught mathematics and coached athletics in Custer County High School in Miles City. In September 1923, McAuliffe returned to his Alma Mater as an instructor in engineering drawing and descriptive geometry. His duties also included coaching all athletics, including basketball, football, baseball, track and hockey. From 1936 to 1956 Dean McAuliffe was a surveying instructor in the field. He retired from coaching in 1947, but continued as athletic director and professor until he was named vice-president and dean of the college in 1956. The Dean is a registered professional engineer and also a member of the AIME and ASEE.

Dean McAuliffe is going to spend his leave relaxing, visiting and travelling. He and his wife, Helen, have a daughter, a son and one grandson whom they plan to visit. He wants to spend at least one winter in a warmer climate, but he has not as yet chosen a place. This leave is just a short rest in a long and devoted career.

Dr. Stephen W. Nile

"We shall miss Dr. Nile after his 21 years of service to Montana School of Mines, but we wish for him happy years in his new life. During the time he has been at Montana School of Mines, he has been one of our most highly efficient and dedicated teachers and has devoted himself unstintingly to the service and education of several thousand young people."

(Continued on Page 3)

M-Day; 1965

M-Day, the one holiday which School of Mines students look forward to all through the year was begun by a blast set off behind Big Butte at 7:00 A.M., by Harold Yde and Larry Eaton.

The M-Day Planning Committee posted a list of crews and crew chiefs, as well as a list of their duties on the bulletin boards throughout the school. The M-Crews who were put in charge of whitewashing the M met at Marcus Daly and Campus Crews which gave the campus a thorough cleaning began the annual task of painting the school's famed M. They met in the Circle to begin their duties. Then their was the painters who painted the new \$350,000 Alumni Coliseum grandstand as well as themselves. This privileged group met in front of the SUB.

Early in the morning came the job of cleaning up the coeds. The lucky girls were given everything from a mudbath to a swim in the swimming pool. This event was carried on all through the day at intervals and was met with much enthusiasm by the men of the campus and those lucky soaking wet coeds.



At noon everyone on campus was treated to lunch in the gym. The lunch was served by the coeds and Copper Guards. After lunch was served the students were entertained by the Kangaroo Court of 1965.

The events of the day were concluded by the folding up of the terrible hoses which drenched both oncoming cars as well as a few coeds. Then the students proceeded down to the football field where everyone participated in a tug-of-war. This event took place between a pit field with mud, dug by the city. The losers, of course, went for a swim, but a good time

was had by all and a few students went home a little wetter than they came.

That evening a dance was held in the Sub. The dance was sponsored by the Copper Guards. The students and their guests danced to the Music of Ed Bowman and his group.

The officials and their functions for M-Day were as follows: James Eck, Marshal; Carl Koskimaki, Campus Crew Clean-Up; Ray Hyppa, M-Whitewash; Ed Simonich, Painting the Grandstands; Don Hruska, Kangaroo Court; Dave Koskimaki, Copper Guards and Dance and Spike Donnegan, Entertainment.

EIT Exams Completed by Seniors

The state-wide Engineering-in-Training examination was administered May 8, to the seniors at the Montana School of Mines. This test is a prerequisite in order to become a licensed engineer.

The test consisted of ten different topics and was eight hours long. Thermo-dynamics, mathematics, chemistry, fluid mechanics and statics were the topics covered in the morning. In the afternoon session, the topics were dynamics, strength of materials, physics, electricity and engineering economics. Students were required to work six problems out of four or five subjects.

Review sessions to prepare the students for the test were given by the faculty last March throughout April.

This test is actually the first half of a sixteen-hour test, the second half of which is given after four years.

Proof of the fact that this test was actually as hard as it seemed is that no one left early and from comments received from participants verified this.

Honors Convocation

The Honors Convocation will be held on May 27, at which time awards and scholarships will be presented to MSM students. Dr. Edwin G. Koch, President of the Montana School of Mines, will begin the Convocation with introductory remarks. Some of the awards to be presented are: athletic awards presented by Edward F. Simonich, miscellaneous scholarships and awards presented by Dr. Edwin G. Koch, certificates and scholarships by Dean D. C. McAuliffe, scholarships from the Department of Mining Engineering by Professor William A. Vine, scholarships from the Department of Metallurgical Engineering presented by Dr. Vernon Griffiths, scholarships from the Department of Petroleum Engineering by Professor Gustav Stolz, a fellowship from the Department of Mineral Dressing by Professor D. W. McGlashan, a fellowship from the Department of Geology by Dr. F. N. Earll, and the Montana Society of Engineers Gold Medal Award, presented by the President of the Montana Society of Engineers or his representative.

LOOKING BACK

Now that we close the journals on another year of our college life, it is with interest and wonder that we look back on all that has happened since September, 1964. Many amongst us can review the school year with feelings of satisfaction and happiness. Others will be probably discovering some regret and self-reproachment. Some will be neither happy nor dissatisfied, for life is unimportant to them.

Concerning the student body as a whole, its accomplishments are memoirs of new achievements and success. Again, as in the previous two years, the football team won its third consecutive Homecoming victory. Establishing a long forgotten precedent, the team also won another game and tied still one other, a record for MSM football in over ten years. Carol Melvin, beautiful and pleasingly sedate sophomore co-ed, was chosen Homecoming Queen; and for her princesses she had Margaret Berryman, Mary Lou Rule, Dianne McElhenny, and Mary McGrath. Recognition to their efforts on the gridiron were accorded to Chuck Starin, Pat Leary, Ed Simonich, Bill Madison, Terry Hebert, Ken Thulstrom, and Jocko Evans. Later on in the year, sophomore Jim Liefer was given an Honorable Mention for his stellar basketball playing. Selection of Who's Who personalities found eight seniors in the limelight. Jack Weaver, Curt Peterson, Ed Simonich, Jocko Evans, Mansoor Awan, Bob Toivonen, Pat Marx and Don Hruska were the duly honored. Large numbers of scholarships and awards were given to many deserving students for thier scholastic achievements. Too numerous to mention in one article, it is practical to simply congratulate them all and wish them continued success in the future. "E" days was again presented by the engineering students this 1964-65 school year. With impressive displays of their knowledge and talent, the engineers came off with a most appreciative day. The metallurgy department won first place for the best display of their field.

Continuing precedent setting, the Mines for the first time was entertained by its own pep band. Vic Burt took over the difficult task as the acting registrar for the year. Ann Slanders, a new column in the **Amplifier**, made its first appearance under the skillful trickery of Will McLaughlin. Registration witnessed the largest enrollment ever. Kathy Verona, president of the A.W.S. was also elected as the corresponding secretary of the Montana Intercollegiate Associated Student Women. Fifty studious individuals were named to the first semester Honor Roll. Not to be recorded as a year solely of accomplishments and worthy performance, some clandestine and bold thief, or thieves, robbed our Student Union Building of \$185.00. Efforts in baseball and track were not so spectacular, but individual stars were produced. Don Poole and Don Brunell were outstanding performers: Poole in baseball; Brunell in track. Bob Toivonen, Jack Weaver and Ed Simonich were nominated for the engineering Gold Medal Award. Who the final winner is, at the time of publication, is not yet known.

"M" Day, MSM traditional holiday of embibing spirits, enervated minds and bodies, backbreaking hard work, fire hose bathing, kangaroo courting and easeful dancing were all highlighted as "M" Day events. Spotlited as the major event of this famous day were the student elections, unusual for participating candidates, unique in the outcome. Elected to office were Bill Thompson, Sigma Rho candidate, as president; GeorgeAnn Thurston, Bill Daly and Tom Downey as Independent candidates for vice-president, secretary and delegate respectively. The other winner as a delegate was Dave Koskima, Theta Tau candidate. In all, it was a hectic year of unusual happenings and events.

—TOM DOWNEY

LITTLE MAN ON CAMPUS



"Ofcourse I can pass you 'ON CONDITION' — ON THE CONDITION YOU WILL NEVER EVER TAKE A COURSE FROM ME AGAIN."

REBIRTH OF A GHOST TOWN

Feature by Earl Wahl

Champion Mine was opened in the 1890's, closed in 1896, opened again in 1919 and closed once again by falling silver prices and an earthquake. Miles Blunt was the last person in the mine before the mine was closed and the tunnel was sealed. That was 1925.

It was 1963 when Miles Blunt stood again in the spot where his home once was. The town had been torn down by the company and what was left of the buildings was carried off by the surrounding farms. There was a sixty-foot pine tree where his living room used to be, and the whole area hardly looked the same as it had 38 years ago. Years ago, Miles Blunt had been the manager of Champion and he still believed in its possibilities. For years he had talked to his family, friends and associates about his theories on the development of the Champion Mine. Now, as a result, he and several other men in the company with which he was connected, raised sufficient money to sink diamond drill holes for the purpose of seeking the Champion Vein. They had secured a 10-year lease from the Anaconda Company on February 5, 1963, and they formed the Champion Mine Exploration Company on April 18, of the same year.

The two drill holes were sunk under the direction of Dr. F. N. Earll, who is the head of the Department of Geology of the Montana School of Mines. Drill Hole number 1 penetrated the Champion Vein at a vertical depth of 492 feet and drill hole number 2 penetrated the vein at a vertical depth of 1,020 feet, at a point 177 feet west of Drill Hole No. 1's intersection. After these findings Dr. Earll stated, "Although two tiny drill-holes cannot and do not prove the presence of a vast quantity of ore, the drilling does prove beyond doubt that both the vein, and the mineralization in the vein, continues at least to the depths tested." His recommendation was that there appeared to be ample justification to develop the mine to those levels.

The old 600 foot tramping tunnel that had been closed by the 1925 earthquake back to a distance of 1100 feet was re-opened and there a shaft was sunk to the 900 foot level and added an extra 42 feet for a 30 ton ore pocket and space to sink a lower shaft.

At the 900 foot level the owners started a crosscut in the direction of Drill Hole No. 1 which they have now reached. They have started shipping, and presently, things are looking up.

On the surface, things have also started to change. There is now a modern three-story house which has a garage, cookhouse and apartments. There are bunk houses and a structure to house the compressor and a change house. Of the old pipe lines, 90% was found buried in the trenches but workable after 40 years.

If it seems that everything is going along smoothly the impression is a false one. There is the ever present danger of water which has filled the tunnels of the old mine. If they broke into a pocket of water the men could be drowned before they could make it to the surface. There is the agonizing feeling of using your money to tunnel onward and hoping that you will hit ore in the end. Finally there is the hope that the mine will pay in the end.

One mishap could ruin all the work done so far. This mishap almost occurred this winter when the snow and bad weather caused the power to fail and the pumps to quit in the mine. If the tunnel at the 900 foot level filled with water it might collapse when it was pumped out again. There is no telephone at the mine and it was on a weekend so no one was at the mine but the cook and his wife. In spite of the fact that it was night and there was a good old Montana blizzard blowing, Don Gillette and his wife started to get help. Their car very soon got stuck and they were forced to go the many remaining miles by foot. It was 4:00 in the morning when they finally reached a phone but they got the power back on in time.

I am sure that all of us realize that mining is a tricky business to go into. It takes a special kind of courage to re-open an old mine and to put your money on the line so that it will pay. We as students of a college dedicated to the pursuit of the mineral wealth of our earth can only wish them good luck.

EX-PREZ SEZ

Two Weeks to Go. Oh No!

by Bob Toivonen



Have you ever turned into an empty parking spot only to find a pint-sized foreign car there? Have you ever added two and two to get three and lost fifteen points on an important quiz? Have you ever come to class at 8:00 A.M. only to find that the class would not be held? If you answer yes to any of these questions, then you know all about frustration. However, have you ever tried to fit a size 8 foot into a size 7 shoe? That is exactly what it is like to fit a month's school work into the last two weeks. If you do not recognize this predicament as your own, wait, you will recognize it soon. Why then, if you recognize the problem, can you not solve it? The answer is simple. It is impossible. Reading assignments double, reports triple, extra-curricula activities quadruple, but most important, spring finally arrives. Nothing is more frustrating than trying to study when the sun is shining, and girls are parading around in their spring finery. Ahem!

Well, back to the last two weeks of school. What can possibly be done to avoid these hectic weeks? Would it not be practical to transfer those two weeks to the beginning of the school year? If this is not practical why not throw them out or maybe just ignore them altogether? Why not go to school on Saturday to make up for the last two weeks? No, this suggestion is ridiculous! Everyone knows that Saturday is recuperation day following an eventful Friday night escapade. Aha, the solution is evident. Instead of trying to solve this problem reading this foolish article, put it down and pick up a textbook. If you do that, this editorial can end right here. Good luck on your exams.

LETTER TO THE EDITOR

Perhaps through some oversight of the Student Council or as a result of an oversimplification of paper-work, a matter of no small importance has been overlooked: the current elections are in flagrant violation of the ASSM Constitution. In other words, this election is unconstitutional.

In accordance with Article III, Section 7, Part A—with regard to the procedure for election of the president, vice president, secretary and two delegates-at-large—there appears the following statement: "The names of all candidates for offices must be posted by the secretary on the College bulletin board at least five days before the election." This provision is in exclusion of any campaign posters or other political display. To the date of this letter (May 4, 1965) no such list has been posted.

Inasmuch as this election is being held on May 5, the five day stipulation cannot be fulfilled, even if an effort were made to abide by Article III of the ASSM Constitution. And so if this letter is published after the May 5, 1965 elections, then legally who is to be our president, vice president, secretary, and delegates-at-large?

Kangaroo Kourt Kalls For Kandid Komments

By Resistive, Resentful, Ridiculed Reservoir Rock

Juris prudence, as witnessed by throngs of the "lower classes," sank to a new low and Jockolar justice jumped, kangaroo style, in reverse to Precambrian times as the "ruling class" barreled through their annual Kangaroo Kourt spectacular. Ham was the food (for thought) of the day, some seats and some faces turned green from consumption, and even some acts of white-wash were liberally observed.

A dissident, predominantly "lower class" electorate voiced its dissatisfaction while its fair maidens were being dragged through the mire. Even big and little horses created scenes in the hallowed chambers of bygone victories and a small white horse was ridden in disgrace. The fallen white knight was black with rage, and while down—he was made to feel very small.

Black dregs of the witches brew had a sobering effect on some affairs of the court, but were entirely inadequate to fill some of the obvious voids or to cleanse sustained blushes.

A disgust ding slip of the computer was noted and AMPLIFIED out of proportion after which the echoes of super persecution caused many to see red. All the while, justice was clad in the dark robes of "ruling class" self-esteem. A "ruling class" panel of jurists, freely imbibing of their sudden power, made little effort to stem the flow of convictions.

Two yo-yos came unwound when their ups and downs were assailed, but they danced for joy as a result of court leniency. Mad, mad, Madza nearly saw the light as new heights were reached in appeals from Jockolar justice. A bushman, never the less, began to foam at the mouth and then had a close shave with injured pride.

Exemplifying the nearly complete absence of law and order, money bags even disappeared during the proceedings.

The village smithy, with a stout hand, helped to restore peace and order to the scene. A real sense of dignity prevailed when the quiet waters of the Nile directed the placement of well deserved praises and honors — and thus, the 1965 Kangaroo Kourt Kalled it Kwits!

WOMEN'S NEWS

by Kathy Verona

On May 13, the state AWS President, Virginia Speck and Dean Paisley from MSC met with the Mines' AWS officers and Mrs. McBride. A luncheon at the Finlen Hotel followed by a discussion of the workings of MIAWS and the local chapter of the AWS took place. Attending the meeting and luncheon from the Mines were Kathy Verona, Fran Ferris, Sheila Dorgan, Rena Richards, Midge Winston and Jane McCarthy.

Picnic

The AWS sponsored a picnic on Sunday, May 23, at the Gregson Hot Springs. Planning the event were Judy Boudny, Carol Wold, Joanne Shisker, Charlotte Matthews and Patty Dunks. All students were invited to attend.

New President Elected

At a recent meeting of the AWS Rena Richards was elected President for the 1965-66 school year. May I express congratulations to Rena, and wish her best of luck and success in her new office.

AMPLIFIER STAFF

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PROFESSORS LEAVING

(Continued From Page One)

With such feeling, the President of the college Dr. Edwin Koch along with the entire school bid farewell to Dr. Stephen W. Nile, Professor of Physics and head of the Physics Department. After a long and devoted career, Dr. Nile will take a well deserved rest with the completion of this school year.

Dr. Nile was born in Camborne, Cornwall, England and brought up in Kellogg, Idaho and Portland, Oregon. He was graduated from Lincoln High School in Portland, Oregon and in 1927 from Reed College, also in Portland, with a B.A. degree in Physics. Four years later, he received a Ph.D. from New York University Graduate School. After graduation, he taught in New York at NYU. Before securing his position at the Mines, he taught at a number of various universities, including Hamilton College, Princeton University, South Dakota School of Mines, and Reed College. Then in 1944 he came to MSM as head of the Physics Department and has occupied that position since that time. He is also in charge of the Seismograph Station here and is a collaborator in Seismology for Montana for the U. S. Coast Guard and Geodetic Survey. He belongs to a number of organizations which include Sigma Xi, Montana Academy of Sciences, American Physical Society, Seismological Society of America, American Geophysical Union, U. S. Coast and Geodetic Survey.

Upon retirement, he will live at his ranch in the Gallatin Gateway. About this he comments: "There I expect to enjoy country living in fine mountain country, and among other things I plan to fish in summer time and to enjoy photography the year around. My interest in seismology will continue and I expect I shall continue to make contributions to the work of the U. S. Coast and Geodetic Survey and to be helpful to those who will be on active duty with the Seismograph Station at Montana School of Mines. Our friends from Montana School of Mines will be visiting us from time to time, so it will be easy to keep in touch with developments at this institution."

It is certain that "Stevi," as he is known on the campus, will be missed by his students and fellow faculty members. His teaching career has been one of devotion and dedication and he has enriched the quality of the school by his personal distinction and professional contributions. MSM sadly bids farewell to this highly respected educator.

Dr. William Hall

Dr. Hall, associate professor in the Geology Department is leaving Butte to assume a position on the teaching staff at the University of Idaho. Dr. Hall has been at MSM for the last 5 years, and has taught classes in Physical Geology, Structural Geology, Photomicrography, Stratigraphy, Geomorphology, and Photogeology.

Dr. Hall is a native of Cincinnati, Ohio, and was graduated from high school in Asheville, North Carolina. Upon graduation he joined the army and served in the infantry and was a photographer for Aberdeen Proving Ground in Maryland. Then from 1946 to 1950, Hall attended Princeton University and was graduated cum laude with an AB in Geology. In 1951, he received a MS from the University of Cincinnati, and also in that year he was married. For the next 3 years he was employed as a geologist for the Pure Oil Company in the Rocky Mountain Division. He then began work on his Doctors at the University of Wyoming, and came in 1958 to the Mines and in the meantime worked on his Doctorate. He received his Doctors Degree in 1961.

Last summer, Dr. Hall went to Italy for 8 weeks to study the geology of the Appenine Mountains. His trip was financed by the National Science Foundation. He and his wife, Elizabeth, have 3 children, 2 daughters and 1 son, with whom he shares his many hobbies include photography, exploring, boating and recording nature sounds.

Professor Robert W. Mannon

Professor Robert W. Mannon is leaving his teaching position at MSM so that he may begin work on his Doctor's Degree. He is returning to the University of Southern California to work on his Doctors in Petroleum Engineering. Originally from California, Man-

non graduated from Los Angeles High School, after which he served in the navy in the latter part of World War II before starting college work. In 1950, he was graduated from Stanford University with a B.S. in Petroleum Engineering.

Following graduation he went to work for an oil company in New Mexico. Then in 1953 he went to work for the National Petroleum Company of Egypt in the Sinai Desert. While there he met his wife Dodie from the United States. A year later they returned to the United States and he was employed by the Gulf Oil Company in California. Previous to his appointment at the Mines he was employed by Gulf, working with oil companies as a Petroleum Consultant. During that time he did graduate work and received a M.S. from the University of Southern California in 1961.

Professor Mannon is the father of four children: twins, a boy and girl, and two younger boys. One of Professor's Mannon's personal pleasures is working with young people, and the favorite family pastime is skiing.

When asked to comment on his stay here, he replied: "My stay here has certainly been an enjoyable one. I consider it a distinct privilege to have had the opportunity to be on the faculty of this outstanding school. I have been greatly impressed by the level of academic work at the school, by the unique teacher-student relationship, and by the unusual dedication of the people on the teaching staff. My wife and I leave here with much regret; it has been an unforgettable experience. We will always remember all the friends we have made here in the Butte area."

Professor William L. Roberts

Professor William L. Roberts is leaving MSM after two years. While on the teaching staff of the Humanities Department he taught classes in Psychology, Sociology, International Relations, Diplomatic History, American Government and Speech. Professor Roberts is a native of Seattle, Washington, and was graduated from Roosevelt High School in 1958. In four years he was graduated with a B. A. in Political Science from the University of Washington, and he immediately started work on his Master's Degree which he got from the University of California at Berkeley in Political Science and International Relations. Next year he will return to the University of Washington, to begin work on his Ph.D.

Upon his leaving, Professor Roberts commented: "My experience at the School of Mines for the past two years has been most enjoyable. I consider it a definite privilege to have become identified with an institution of national reputation and also one that goes so far in meeting the educational needs of the local community. My associations with different members of the faculty and student population have been most rewarding and I find it difficult to separate myself from the many people I have come to know and appreciate. I extend my sincere best wishes for the continued success of Montana College of Mineral Science and Technology."

Although Professor Roberts education is in Political Science, his hobbies and previous occupations are many, varied and have little to do with his major. Since High School, he has been employed in a number of "odd" jobs. He was a cab driver, a custodian of a department store, a morphologist, librarian, and a member of a dance band. Professor Roberts is a music enthusiast, he enjoys both listening and playing. He is also interested in the Orient as a hobby and is a connoisseur of foreign food. Roberts plans to continue teaching upon receiving his Doctor's Degree or he may become a counsellor to foreign students in a larger university, but whatever he does, he is assured success.

Profesor Kohler Stout

Next year, the Engineering Science Department will be missing its present head Professor Kohler Stout, will leave the staff at MSM for one year's leave of absence to attend the University at Colorado, Boulder. He will study structural engineering and engineering science under a 15 month grant awarded to him by the National Science Foundation. He is working toward his Doctors Degree in Structural

NEW LOAN FUNDS

If you need financial assistance for your next term of college, the best time to arrange it is right now, an authority on student aid advised here this week.

Allen D. Marshall, President of United Student Aid Funds, Inc., pointed out that college loan officers are usually in a position to arrange in the spring for loans to be disbursed in the summer or fall terms. Qualified students on most campuses can borrow either from the college itself, from the federal government under the National Defense Education Act, or from commercial banks participating in various nonprofit state or private guarantee programs.

USA Funds, the largest such private program, has endorsed loans for 41,264 students in 700 colleges and universities. Mr. Marshall reported, its current endorsement rate exceeds \$30 million a year. Needy students can borrow up to \$1,000 annually in their sophomore, junior, and senior years, and up to \$2,000 annually in graduate years. Repayment, at a nonprofit rate of interest, does not begin until five months after the borrower leaves school, and extends over three or more years.

More than 6,000 banks now make loans based on USA Funds guarantees, Mr. Marshall said. In most cases the student borrows from his own home bank, and so not only acquires a knowledge of credit principles but establishes an invaluable credit rating for his later business life.

To be eligible for a USA Funds loan, a student needs only a statement from his college that he is of good character and in good academic standing. Loans can be arranged in the spring for disbursement in summer or fall terms.

Every accredited college is eligible to participate in the USA Funds program. A student can learn whether his college is a participant simply by asking his loan officer. Full information is available from United Student Aid Funds, Inc., 845 Third Avenue, New York, New York 10022

Mechanics. Stout is a native of Helmsville, Montana, graduated from Powell County High, and then came to school here at MSM. In 1948 he graduated with a B.S. in Mining Engineering and a year later he got a MS in Geological Engineering. After graduation he went to work in New Jersey as Mining Production Engineer and became Mining Superintendent. In 1959 he received a L.L.B. degree in law from LaSalle Extension University. For 13 years he has served in the mining engineering department, and in 1962 was appointed head of the department of engineering science.

He has authored publications for the "Mining Congress Journal," "Mining Engineering" and the Montana Bureau of Mines and Geology of which he has been mining division chief since 1952.

Stout is a member of the American Society for Engineering Education; the American Institute of Mining, Metallurgical and Petroleum Engineers; the Montana Section of the AIME for which he served as chairman during 1963-1964; the Montana Society of Engineers; the American Bar Association; the Montana Bar Association and the National Society of Professional Engineers.

Stout is a registered professional engineer and land surveyor in Montana and an attorney licensed to practice before the Montana Supreme Court and United States District Courts in Montana.

Professor Stout and his wife, Phyllis, have three daughters. One of his many hobbies is prospecting. In September of 1966 he will return and resume his present position.



"Of the many remedies that won't cure a cold whiskey is by far the most popular."

Charles Gale Presents Seminar

On April 27, Charles Gale presented a seminar to the Metallurgy Department on "The Production of Beryllium Metal for Concentrates." The seminar covered four categories of beryllium metal production as follows: 1. reduction of halides; 2. reduction of oxide or hydroxide; 3. thermal decomposition of iodide; 4. electrolysis of fused salts.

The second and third categories are of academic or laboratory interest only, and there are no industrial processes based on these categories. Much of the chemistry in these categories was discussed.

Brush Beryllium Company uses a fluoride reduction as the basis for their operations. The flowsheet of the Brush operation and the various processes were diagramed and discussed.

The German De Gussa Process, and electrolysis of NaCl-BeCl₂ fused salt, was discussed with respect to the flowsheet and processes. Feed material production and various engineering aspect were also illustrated. A short discussion was then held.

FALL SEMESTER MAKES COMMENCEMENT OF GEOPHYSICS SCHOLARSHIPS

Scholarships in geophysics will be offered next year at MSM. The scholarships are to be a joint effort of many companies and will be administered by the Society of Exploration Geophysics. Students eligible are high school seniors who intend to prepare themselves for a career in Geophysics, and college undergraduates who are following a course directed toward a career in Geophysics. A student must be in urgent need of financial assistance and have above average grades to qualify.

The scholarships are for a period of one year and will vary in amount from \$500 to \$1000. Anyone interested who meets the requirements should see John McCaslin.

Geophysics is one of the earth sciences. It makes use of basic principles of physics, mathematics, engineering, geology and chemistry in studying the characteristics of the earth-its interior and its surface, its atmosphere and water covered areas. Exploration geophysics investigates the subsurface structure of the earth with the intent of finding geological structure favorable to the accumulation of hidden natural resources.

Petroleum, bodies of ore, water the exploration geophysicist searches for these basic things necessary to sustain our complex technical civilization. Of all exploration geophysicists, about 90 percent are engaged in exploration for oil. Others are in mining, civil engineering and research.

McGlashan and Rovig To Travel

The American Metal Climax Foundation has invited Professor Donald W. McGlashan and Mr. D. H. Rovig to attend a conference in New York City. At this conference the research accomplished on the problem of the Health Steel Ore will be discussed, and plans for activities on this project will be formulated for the coming year. Mr. Dan Rovig will receive his Master of Science Degree in Mineral Dressing Engineering this coming June. His dissertation is entitled "Selective Separations of Copper, Lead and Zinc Minerals from Massive Sulfide Ores." Mr. Rovig's approach to this research problem has been of a fundamental nature. Professor McGlashan states that "Mr. Rovig's research has indicated the possibilities of several innovations in particulate solid separations. In a sense, his work has been of a probing nature to explore and indicate the way for rather unusual methods of separation. It is my opinion that Mr. Rovig's work is most outstanding."

Mr. Rovig was this year's recipient of the Donald W. McGlashan Fellowship in Mineral Dressing Engineering which is sponsored by the American Metal Climax Foundation, under the coordinating supervision of Dr. William R. Opie of the Research and Development Department of the United States Metals Refining Company.

Professor McGlashan and Mr. Rovig will leave for New York on May 27, where they hope to visit briefly at the World's Fair.

SEMINARS

Dan Rovig

Dan Rovig presented a seminar on May 20, on "Selective Separations of Copper, Lead, and Zinc Minerals From Massive Sulfide Ores." The development of concentration methods by analysis of mineral structures, interfacial reactions, electrokinetic measurements and analysis of environmental conditions affecting selective separation schemes was the main body of the seminar presentation. The above study was made by disregarding the stoichiometry of the past while searching for new methods of mineral beneficiation.

John Richards

On May 27, John Richards gave a seminar on "The Particulate Separation of Antimony-Oxide Minerals From Ores." The seminar was the study of the antimony-oxide minerals in which the mineralogical, structural, and electroforenetic properties were examined. The ultimate goal of the study was the development of a systematic and dynamic separation process.

Ed Simonich Presents Seminar

The Petroleum Department presented a seminar by Ed Simonich on May 4. The seminar dealt mainly with the oil shale geology of the Piceance Creek Basin in northwestern Colorado, and with the four main retorting processes by which oil shale can be converted to a petroleum crude. The oil shale of Piceance Creek Basin is the result of deposition in Eocene lakes of an organic matter called kerogen. This deposition resulted in the Green River Formation, which contains the richest and thickest deposits of oil shale in the world. The oil shales of the basal section of the Parachute Creek member lend themselves to mining, either open pit for shallow deposits or room-and-pillar mining for deeper sediments. Retorting processes for the mined shales can be divided into the three experimental retorting methods now in the United States: the Bureau of Mines Retort, the Union Oil Co. Retort and the Oil Shale Corporation Retort. All of these methods have many advantages and disadvantages. However, the final decision as to which process will be used in shale oil production still relies upon economics.

1965-66 FRESHMAN SCHOLARSHIP ANNOUNCED

Scholarships, having a total value of \$3,000, were recently awarded by the Scholarship Committee at Montana School of Mines to seven recipients, according to Professor W. M. Laity, chairman of the committee.

Freshman fee scholarships which remit specified fees payable to incoming students and varying in value based on Montana residency were granted to Charles R. Huitt, Newt, Townsend; Wesley A. Patterson, Blackfoot, Idaho; and Janis M. Platt, Butte.

Cash scholarships for freshmen intending to pursue careers in fields associated with the mineral industries were given to Robert S. Morrison, Huson, Montana; Charles J. Speake, Jr., Victor, Montana; Clark L. Walters, Billings. These scholarships amount to \$250 per semester of the freshman year.

Other members of the College's Scholarship Committee are Dean D. C. McAuliffe and Professor Edward F. Simonich.

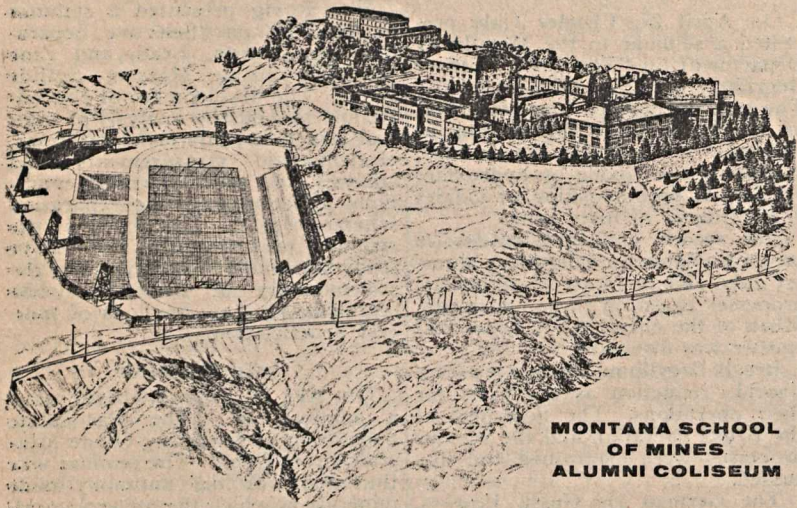
Guido Vellena

On May 13, Guido Vellena presented a seminar on "Electrokinetic Studies of Cassiterite." It explained the studies of the effect of cations and surfactants on the surface of Cassiterite. The summer outlined the theoretical aspects of the electrical double layer around particles and related this concept to mineral processing.

THANKS

Kathy Verona and the members of the AWS would like to thank Mrs. McBride, women's advisor and the other MSM professors for helping the Associated Women Students during the past year. You have helped make the AWS functions and activities a great success.

HEADLINE STORIES -:- 1964 - 65



MONTANA SCHOOL OF MINES ALUMNI COLISEUM

THE COLISEUM: A RECAPITULATION

by Al Dirksen

Responding to a need felt both on campus and throughout the community, the MSM Alumni Association last spring began to make plans for a stadium adequate to the needs of both the college and the community. In its conception and in its realization it has never been a small undertaking. All who have watched it take shape here west of the College have been impressed by the dispatch and efficiency with which the work has progressed. Here is a recapitulation of what has been accomplished:

By the end of October a place had been leveled large enough to accommodate a football and track field, baseball diamond, baseball grandstand, permanent bleachers, lighting facilities and parking lot. Four inches of sand, six inches of dirt and finally sod were put in place. Water outlets for future rest rooms and for sprinkling systems had been installed.

Before Christmas vacation most of the fencing around the property had been completed and additional spaces provided for parking, along with the extension of Park Street past the Student Union Building down to the parking areas.

January saw the completion of concrete footings for the grandstands and the start of erection of 154 tons of steel to form a 1,340 seat edifice on which work is still progressing. About a third of it was painted by students and Alumni on M-days in April.

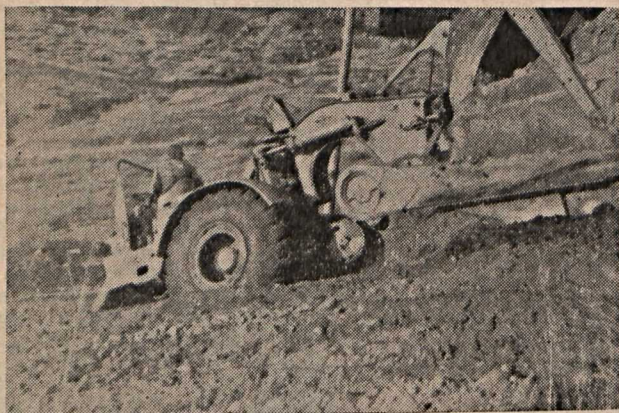
A drive began on the first of May to collect \$40,000 to enable the work to continue. Students and alumni were both active in this effort. The "M" on Big Butte was decorated with red lights, and as the money came in white lights were substituted for the red ones, giving everyone evidence of how the drive was progressing. Response of the community to this effort was very gratifying.

Work still to be completed includes the lighting for the field



(which will be on separate circuits for baseball or football as needed), and permanent bleachers, along with the roof on the grandstand and change rooms and concession area underneath.

Donations of time and material and use of equipment continue to come in. There can be no question that due to the public-spiritedness of many people, Butte and MSM will have a valuable addition to their resources for recreation for all the future.



Make Who's Who—1964-65

Among the top ten stories of the year includes the selection of eight MSM seniors to be named in this year's edition of Who's Who Among Students in American Colleges and Universities. Who's Who is an annual directory of distinguished students selected from colleges and universities throughout America since 1934. Selection is based on the students' personal qualities as well as scholastic achievement. The students named to this year's edition are: Monsoor A. Awan, Quetta, Pakistan; John G. Evans, Fremont, California; Donald C. Hruska, Lutherville, Maryland; William P. Marx, Seattle; Curtis K. Peterson, Butte; Edward L. Simonich, Butte; Robert W. Toinvonen, Butte; and Jack L. Weaver, Trident, Montana.



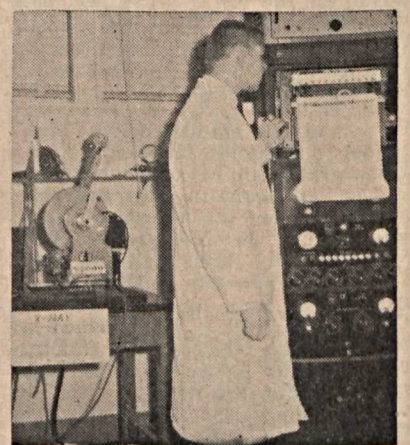
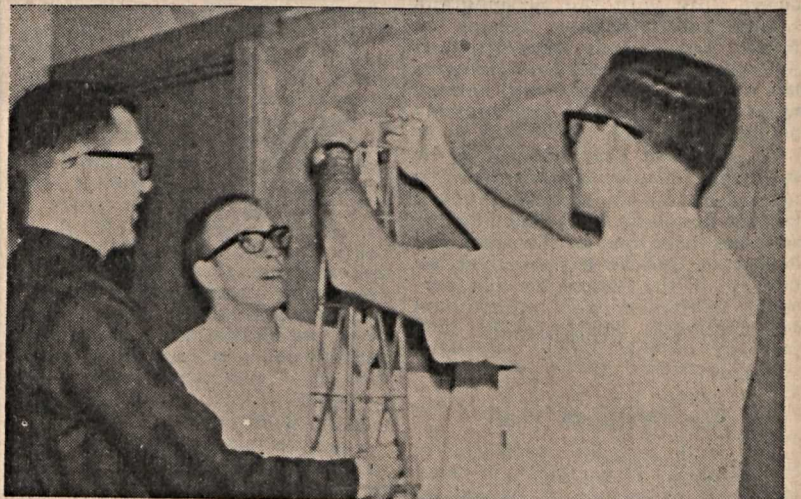
E-DAYS

On March 27 and 28, M.S.M. presented Engineering Days. Future engineers of M.S.M. showed the public a little portion of their dreams. "E" days gave the general public a chance for seeing what engineers have accomplished, which give them a chance to appreciate the things that go into making living easier and healthier.

Various departments entered exhibitions in their respective fields. These exhibits were judged and awarded the first three places were mineral pressing, first; petroleum department taking second; and the geology department third.

Another attraction of "E" days was a parachute jump by Carl Koskimaki, Dan Moilanen and Dave Bennett. During the jumping the newly organized M.S.M. band performed for the public.

The Associated Women Students served refreshments to the public on both of these days. The refreshments were purchased by the Anderson-Carlisle Society. Carl Koskimaki was put in charge of the days activities.



M-Day

M-Day began on Tuesday night with the first interfraternity beer-bust, which was commemorated by a songbook composed by the frat members. Elections and campus cleanup were held the next day with the "M" taking on a new coat of whitewash, and the new bleachers being painted. Bill Thompson was elected president; George Ann Thurston, vice-pres.; Billy Daly, sec-treas.; and Tom Downey and Dave Koskimaki won the delegate positions. The fun and frolic of Kangaroo court was highlighted by honorary presentations to Dr. Nile and Dean McAuliffe. The highly popular Ed Bownan Band played at the M-Day dance which concluded a successful day.



WHITEWASHING THE "M"—1961 STYLE

HEADLINE STORIES -:- 1964 - 65



MSM's First Pep Band Formed

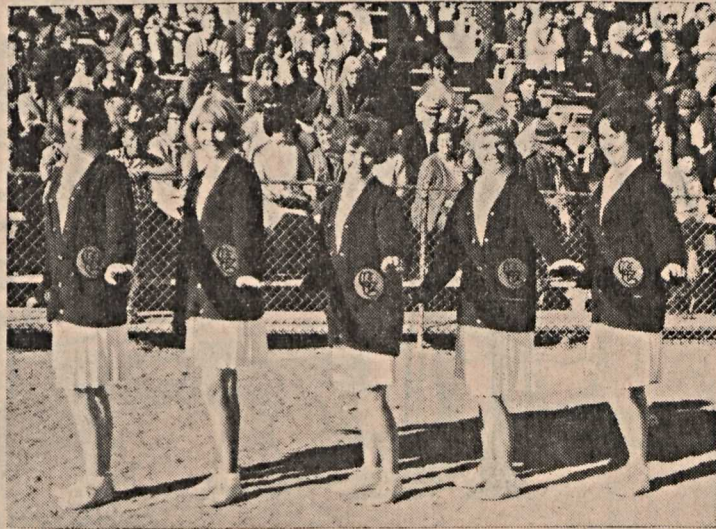


The Montana School of Mines Pep Band, consisting of 19 members, was organized September 30 under the direction of Rod Lewis with Mr. William J. Van Matre as faculty advisor. Throughout the year the band shared in aiding the school's football and basketball teams by playing for these affairs. The band will always welcome new members.



Homecoming

Homecoming events began on Thursday, Oct. 22 with a bonfire and pep rally. Carol Melvin was announced as this year's Homecoming Queen. The Homecoming parade was held Friday afternoon. After a 13-7 victory against Northern Friday, Oct. 23, MSM's Homecoming dance was held at the Copper Lounge.



SPORTS SUMMARY

Homecoming Victory

MSM defeated the Lights of Northern Montana College before 1,500 fans by a score of 13-7.

The Robinson passes via Sutey and Marx provided for the offensive scoring while the defensive held the decisive balance and protected the backfield. Daily provided the extra point.

Baseball

The Orediggers ended the Mines season with a Conference record of two wins and four losses. Four non-conference losses were also suffered by the team. The wins consisted of triumphs over Western and Northern Colleges; the losses were twice to Carroll, once to Eastern and Western. There were four non-conference losses to Montana State University.

M.V.P.'s

The most valuable players award in football was awarded to Pat Leary and Chuck Starin—Evans, Simonich and Madison were co-captains for the squad. Baseball's MVP award was given to Don Poole.

Intramural Activities

The Intramural Basketball Championship went to the Tapakegabrews, followed by the GF's and the Hoochers, respectively. The Tapakegabrews finished with a perfect record of 16-0.

The Mines Intramural Champs defeated the top Carroll Intramural team by a score of 49-45.

The activities still in progress include softball, golf and tennis.

Basketball

The MSM basketball team was whitewashed throughout the season this year, but contrary to the scores and record the team played hard and well.

Track

The MSM track team—as did the basketball team—met strong opposition in its respective events—they managed to score a number of points at the meets, which is comparatively good within the competitive scale.

Support

The teams and individuals received good and deserved support from the student body under the leadership of the cheerleaders: Mary Lou Rule, Diane McElhenny, Leona Harrison, Chris Gale, Carol Wold, Carolyn Stuart.

Gold Medal Nominees

Edward L. Simonich, Butte, has held many offices, and has been a member of clubs and fraternities throughout his school years. Ed has also received fee scholarships and the Mobil Co. Scholarship during both his junior and senior years. He is a senior in petroleum engineering.

Robert W. Toivonen, Butte, is a senior in metallurgical engineering and president of the Student Council. He has participated in intramurals, and his name has appeared on the College's honor roll.

Jack L. Weaver, Trident, has been student manager of the Student Union Building for the past two years. He has held many class offices, and offices in Theta Tau Fraternity. He was recipient of the Conoco Scholarship. He has also participated in varsity and intramural sports. Jack is a petroleum engineering student.

Fee Increase

The Board of Regents have raised the student fees for the coming school year. Resident fees have been increased \$45 a year, and nonresident fees have increased \$270 a year. Out of the total \$38.5 million received from the increase, the Montana School of Mines will receive only about \$2 million. That represents a minute 5%.

The effect of the bill to hike fees at MSM could have far-reaching consequences. These consequences might very well be the discontinuation of the Montana School of Mines; the closing of the Dormitory; or a drastic reduction of the student body. The fee increase is to benefit the college by bringing in more money; but is it wishful thinking or will the hike in fees injure MSM?

"What this country needs," says Sizmo Sam, is to have a designer of women's bathing suits as Director of the Budget."

Koch's Entertain Seniors

The Montana School of Mines seniors of 1965 were entertained by Dr. and Mrs. E. G. Koch at a buffet supper on Wednesday, May 19, on Thursday, May 20, in the president's residence.

Seniors in the Departments of Mining Engineering, Mineral Dressing Engineering and Geological Engineering (Mining Option) were guests of the President and Mrs. Koch on May 19; and those in Metallurgical Engineering, Petroleum Engineering, Geological Engineering (Petroleum Option) and Engineering Science were received by President and Mrs. Koch on May 20.

Heads of the various departments and their wives, as well as wives of the seniors, were invited.

VIC BURT ANNOUNCES E.O.A.

Montana School of Mines now has an aid for students whose families are considered in the low income bracket. This financial aid falls under the Economic Opportunity Act. Interested students who feel their parents fall into the category of low income, should see Vic for detailed information.

From July, 1961 to June, 1965, in the Atlantic alone, satellites detected 10 storms and tracked 18 others.

Strikeout king, outfielder Dave Nicholson of the Chicago White Sox, struck out 175 times during the 1963 season.

Boston has the oldest subway system in America.

Austria has 14 universities.

Foreign visitors spent \$275,000,000 in the U. S. in 1963.

About 44 percent of the chemists in Finland are women.

Bureau Employs Seven MSM Students

Seven Montana School of Mines students have had parttime employment with the Montana Bureau of Mines and Geology during the past school year.

Doreen Shea and Cathy Burke have been working with J. M. Chelini in the Museum; Jeanine Richards aided in the clerical and publications departments; Ellen Hurlbut and Mary Jean Ungaretti compiled information for a publication on Montana Springs for S. L. Groff; Carl Koskimaki assisted F. M. Young on the rock-breaking project; and Ernest Bond helped R. B. Holmes with the heavy work load in the drafting department.

In line with its policy of employing students needing financial assistance while attending the School of Mines, the Bureau has felt very fortunate in having their services to alleviate the excessive work load.

Wood Butcher Supreme

by Doc Jordan

Anyone who has occasion to pass the carpenter shop very often must think that the mortality rate in that building is fairly high because there is a long black hearse parked outside the door everyday. If the passer-by should become too curious and decide to inquire as to the presence of the funeral vehicle, he would discover that it is the personal conveyance of the one and only Walt Boehler, who is wood butcher supreme at Montana Tech.

We all know that the undertaker covers up a doctor's mistakes, but Walt lets Smiley Seccomb, the campus painter, cover up his. Therefore, the hearse is retired from the job and is now merely a go-to-work car for Walt.

Now then, as long as we are on the subject of Mr. Boehler, let us delve into his past and check on his qualifications as a carpenter. Upon doing this, we will discover that he is no fly-by-night. He has been at the trade for twenty-five years now and has left in his wake many fine structures to prove his ability. Before he started work at Montana School of Mines three years ago, Walt was a construction boss for Cahill Mooney for fifteen years. During this time, he helped construct the new Milwaukee Depot, many local service stations, several highway bridges in the Missoula area and, along with numerous other structures, he can be proud to claim the very building in which he now works.

This fine craftsman came to Butte from Hebron, North Dakota, in 1940 and has remained here since that time, except for the four years that he spent in the Pacific during World War II, with the United States Army Air Force.

Walt married the former Viola Denny, who incidentally, is the daughter of Earl Denny, who was campus foreman at the Mines for thirty-nine years.

The Boehlers reside at 3151 Keokuk with their thirteen year old daughter, Kimberly, who is an eighth grade student at the Butte Junior High. They also have a son, Denny, who is serving in the United States Coast Guard on the Winona Coast Guard Cutter.

This carpenter is a member of the Butte Elks Lodge No. 240. His hobby is bowling; and his past scores prove that he can play with the best of them.

McBRIDE ATTENDS CONVENTION

Mrs. Louise McBride, Associate Professor of Humanities, recently attended the Montana Foreign Language Teacher Convention in Helena.

Those present included college, high school and junior high school language teachers throughout the state. Mrs. McBride participated in the Spanish group. Highlighting this meeting was a speech in Spanish by a professor from Cuba. Among other speakers were Dr. Gordan Doring and Harriet Miller.

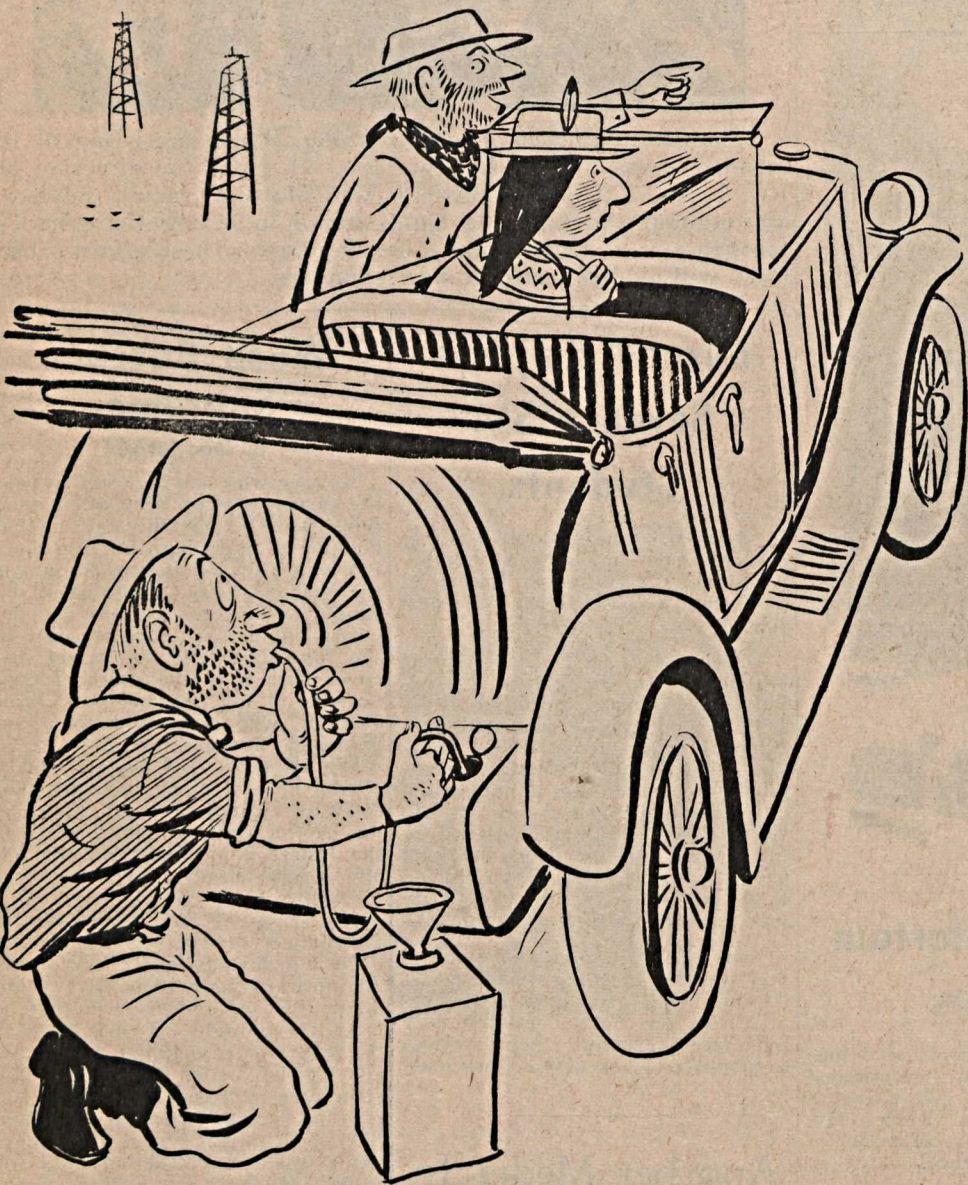
Another Media In Search of a Dane

TIME MAGAZINE

PEOPLE

Brooding, sometimes psychotic Prince (Melancholy Dane) Hamlet of Denmark (see FOREIGN NEWS), still mourning the mysterious, untimely death of his father (TIME, Sept. 17, 1600), suddenly turned historic, treasure-filled Elsinore Castle (see ART) into a rapier-thrusting, poison - quaffing blood bath (see SPORT). Following a spirited conversation with his late father, during which he learned that his power-hungry, opportunist uncle, KING CLAUDIUS, had "murdered" [sic] his predecessor by pouring juice of cursed hebenon in his ear (see MEDICINE), the prince took matters into his own calloused, stubby-fingered hands. Hamlet, feigning madness, which creaky, cranky LORD CHAMBERLAIN ("this above all — to thine own self be true") POLONIUS attributed to unrequited love for the latter's daughter, shapely (38-23-37) nunny — dispatched (see RELIGION) OPHELIA, touched off a Dane reaction of explosives. When the smoke had cleared, here was the grim, grisly toll: Polonius dead (stabbed), Ophelia dead (drowned), QUEEN GERTRUDE (Hamlet's doting, sometimes incestuous mother) dead (poisoned), King Claudius dead (stabbed and poisoned), Laertes (Ophelia's impetuous, sometimes bon vivant brother) dead (stabbed), Hamlet dead (stabbed) (see MILESTONES). Commented a passing minstrel: "We have learned much (see EDUCATION) from this spectacle (see SHOW BUSINESS of bloody 'murder' (see SIC). (See No. 8, March 26, Amplifier.)"

THE AMPLIFIER HIGHLIGHTS THE MAJOR DEPARTMENTS ON CAMPUS



Petroleum



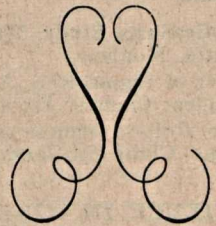
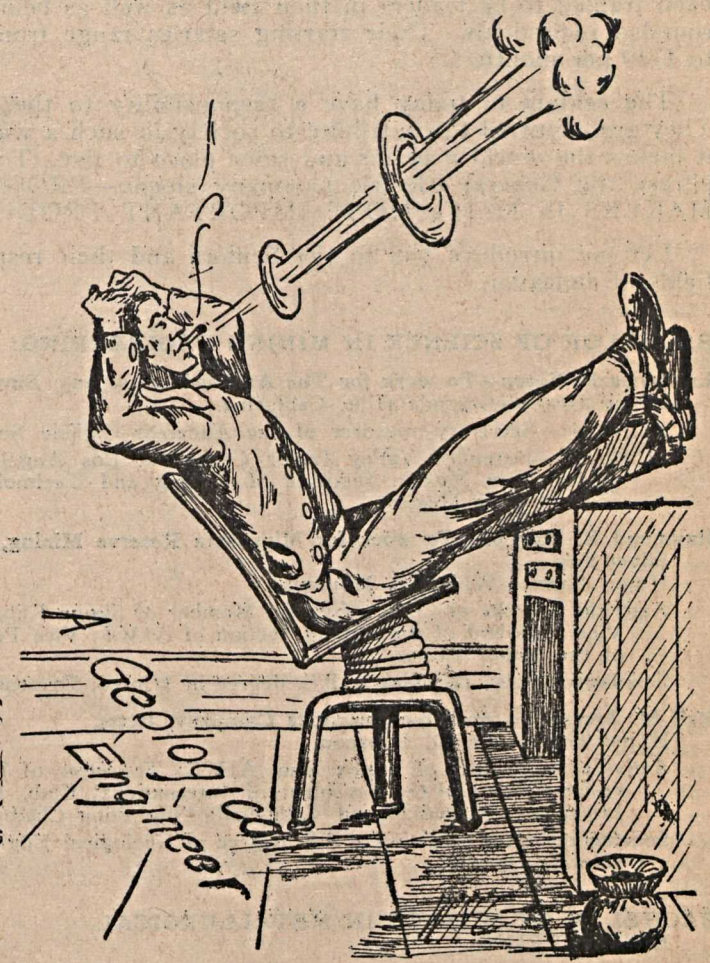
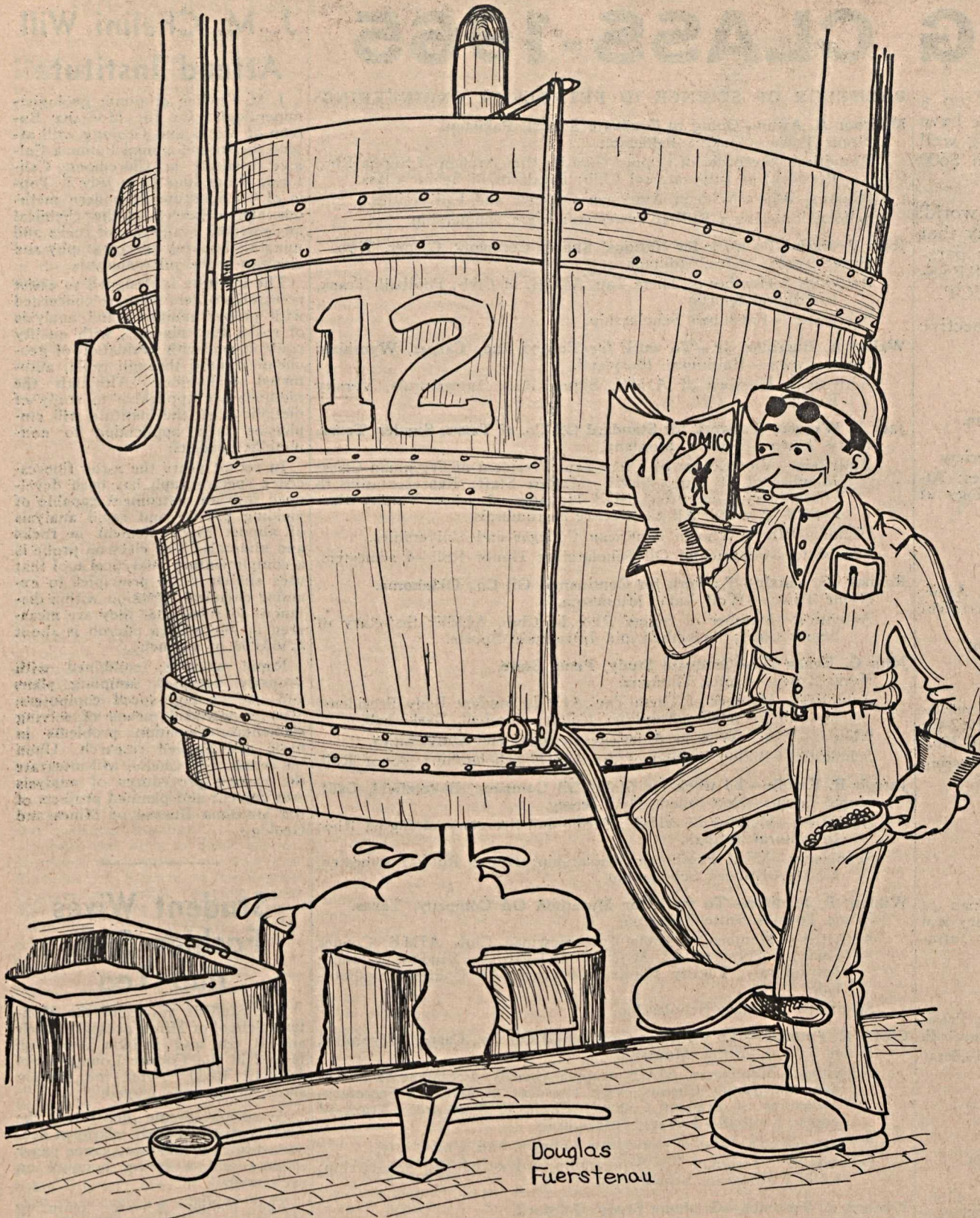
GEOPHYSICS



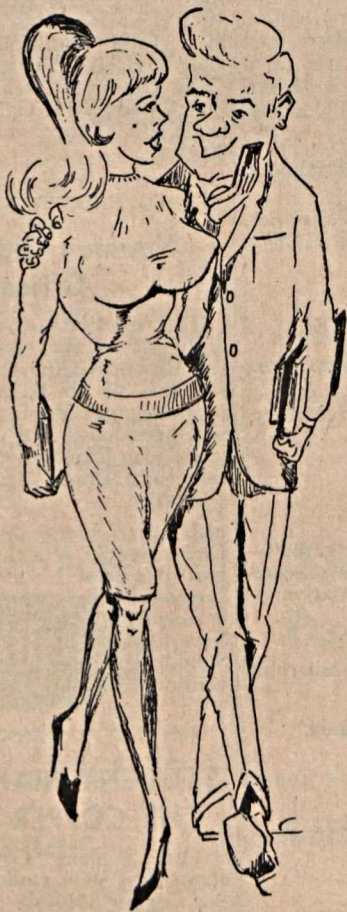
MINING



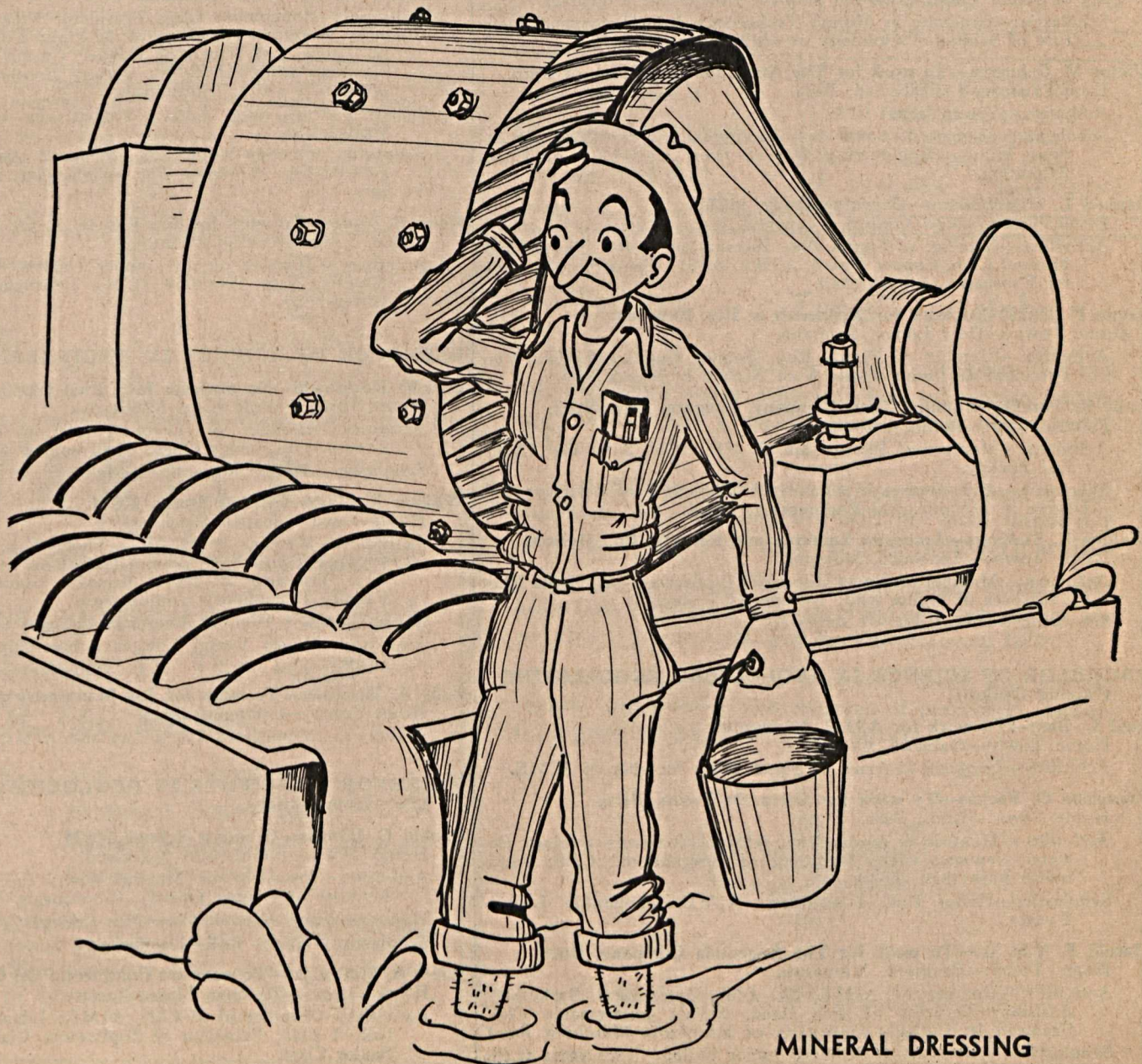
ENGINEERING SCIENCE



METALLURGY



FAMOUS LAST WORDS
WHAT CAN GENERAL STUDENTS
DO FOR THIS CAMPUS ?



MINERAL DRESSING

GRADUATING CLASS-1965

On graduation day, thirty-one seniors will embark on a new phase of their lives. These seniors are men that have been trained to be leaders in their field as well as being well rounded individuals. Their starting salaries range from \$600 to \$730 per month.

The seniors of today have a responsibility to the world. They are expected to contribute to society in such a way that it makes the world a better and safer place to live. To paraphrase the General Electric Company slogan—PROGRESS-MAKERS IS MSM'S MOST IMPORTANT PRODUCT.

Let me introduce you to the Seniors and their respective fields of endeavor.

BACHELOR OF SCIENCE IN MINING ENGINEERING:

Lawrence R. Eaton—To work for The Anaconda Company, Butte.
Home Town:—Granada Hills, California.
Activities:—Secretary-treasurer of the Anderson-Carlisle Society.
Scholastic:—Attended Valley Junior College at Los Angeles; Attended New Mexico Institute of Mining and Technology at Socorro, New Mexico.

Raymond R. Hyyppa—To work for Minnesota Reserve Mining, Silver Bay.
Home Town:—Whitehall, Montana.
Activities:—Duke of Copper Guards; Member of Sigma Rho, ASM; Vice President of the Mining Section of AIME; Vice President of the Junior Class.
Scholastic:—Also receiving a B.S. degree in Mineral Dressing.

Raif M. Zacca—To work for Anaconda Company, Butte.
Home Town:—Beirut, Lebanon.
Activities:—Member of Sigma Rho, AIME; Treasurer of International Club, 1964-65; President of International Club, 1962-63; Intramural Basketball and Volleyball; Ping Pong Champ, 1962.
Scholastic:—Also receiving a B.S. degree in Geological Engineering (Mining Option).

BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING:

Donald Podobnik—Taking graduate course in Mineral Dressing.
Home Town:—Anaconda, Montana.
Activities:—Member of Sigma Rho, ASM, AIME; Chairman of ASM; Vice President of Met. Section of AIME; Secretary and Archon of Sigma Rho; Vice President of Junior Class; Intramural Basketball.

Robert W. Toivonen—Graduate Study, MSM.
Home Town:—Butte, Montana.
Activities:—Member of Sigma Rho, ASM, AIME, Pep Band; President of the Student Council; Intramural Basketball and Baseball.
Scholastic:—Honor Roll—3 semesters; MSM Scholarship; Federation of Womens' Clubs Scholarship.

BACHELOR OF SCIENCE IN MINERAL DRESSING ENGINEERING:

James A. Ek—To work for Waubash Iron Co., Laborador, Canada.
Home Town:—Fort William, Ontario, Canada.
Activities:—Member of Sigma Rho, AIME, International Club; President and Vice President of International Club; Treasurer of Senior Class; Editor of Magma; Intramural Volleyball.
Scholastic:—Graduate in Mining Technology from Provincial Institute of Mining Technology at Haileybury, Ontario.

Victor M. Galaretta—To work for The Anaconda Co., Butte, or Peru.
Home Town:—La Libertad, Peru.
Activities:—International Club.
Scholastic:—Colegio Nacional de Inge Ingenieros de Mines, Argentina; Mining Engineering Degree from University of Cuyo, Argentina.

Samuel L. Higinbotham—Graduate Study, MSM.
Home Town:—New Oxford, Pennsylvania.
Activities:—Member of Sigma Rho, International Club, Photo Club, Mineral Club, Copper Guard, AIME, ASM, Glee Club; Manager for Football and Basketball.

James F. Jenks—To work for Kennecott at Ely, Nevada.
Home Town:—Deer Lodge, Montana.
Activities:—Member of Sigma Rho, Copper Guards, AIME; Vice President of Junior Class; Vice Archon of Sigma Rho.

Lalit K. Parekh—National Lead Company, Niagara, New York.
Home Town:—Bombay, India.
Activities:—Member of Photo Club, AIME, ASM, American Chemical Society.
Scholastic:—B.S. Degree in Chemistry, University of Bombay; B.S. Degree in Metallurgical Engineering, MSM.

Manley K. Stallings—American Smelting and Refining Co., Helena.
Home Town:—Anaconda, Montana.
Activities:—Member of Sigma Rho, AIME; Secretary of Sigma Rho; Treasurer of Sigma Rho; Intramural Volleyball.
Scholastic:—Honor Roll—1 semester.

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING (Mining Option):

Paul L. Blair—To work for AS&R, Nicaragua.
Home Town:—Oakland, California.
Activities:—Sergeant-at-Arms of Sigma Rho; Member of AIME.

Francisco O. Pachas—To work for Cerro De Pasco, Peru.
Home Town:—Lima, Peru.
Activities:—Member of Sigma Rho, AIME, Economic Geology Society, Newman Club; President of International Club; Intramural Basketball, Track.
Scholastic:—Honor Roll—1 semester; AIME Scholarship Loan—2 years.

Harold F. Yde, Jr.—To work for The Anaconda Company, Butte.
Home Town:—Brainerd, Minnesota.
Activities:—Member of AIME, Ski Club, Intramural Basketball; Assistant Director of Pep Band, MSM; Letterman's Club, Brainerd Jr. College; University of Minnesota Marching Band.
Scholastic:—Two years at Brainerd Junior College; Two years at the University of Minnesota.

BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING:

Mansoor A. Awan—Going to Graduate School, Pakistan.
Home Town:—Quetta, Pakistan.
Activities:—Recorder of Copper Guards; Vice Archon of Sigma Rho; President of International Club; President of Senior Class.
Honor:—Who's Who in American Colleges and Universities.
Scholastic:—Honor Roll—5 semesters; MSM Scholarship.

John V. Burk—To work for National Supply Company, Casper, Wyo.
Home Town:—Glen, Montana.
Activities:—Member of Theta Tau, AIME, M Club; Football, Track, Intramural Sports.
Scholastic:—Freshman Scholarship.

Walter A. Busenius, Jr.—To work for Texaco, Inc., Casper, Wyoming.
Home Town:—Baltimore, Maryland.
Activities:—Member of AIME, Sigma Rho; Intramurals, Varsity Baseball.

Jack L. Weaver—To work for Standard Oil Co. of Texas, Snyder, Texas.
Home Town:—Trident, Montana.
Activities:—Vice Regent of Theta Tau; President of Freshman Class; Member of M Club, AIME, Magma Staff; Representative to Disciplinary Committee; SUB Manager—2 years; Varsity Basketball—2 years; All Conference Intramurals.
Honor:—Who's Who in American Colleges and Universities.
Scholastic:—Continental Oil Scholarship; Honor Roll—4 semesters.

Rodney W. Ylitalo—To work for Continental Oil Co., Oklahoma.
Home Town:—Wolf Lake, Minnesota.
Activities:—Member of Sigma Rho, M Club, AIME; Secretary of Senior Class; Basketball and Intramural Sports.

John G. Evans III—Graduate Study, Penn. State.
Home Town:—Butte, Montana.
Activities:—Member of Theta Tau, AIME; Student Body President; M-Club President; Amplifier Editor; Football, Basketball.
Honor:—Who's Who in American Colleges and Universities.
Scholastic:—Billing Section of the AIME Scholarship; Honor Roll.

Joseph R. Kandle—To work for Mobil Oil Company, Bakersfield, Calif.
Home Town:—New Salem, New Jersey.
Activities:—Member of AIME; Scribe and Secretary of Sigma Rho; Intramural Softball.
Scholastic:—MSM Freshman Scholarship; Honor Roll—1 semester; MSM Advanced Scholarship.

William F. Madison—To work for Marathon Oil Company, Texas.
Home Town:—Butte, Montana.
Activities:—Member of Theta Tau, Newman Club, AIME, Copper Guards; President of M-Club; Delegate to Student Council; Intramurals; Varsity Football—4 years; All Conference—Football.
Scholastic:—Rotary Scholarship.

Curtis K. Peterson—To work for Continental Oil Co., Casper, Wyoming.
Home Town:—Butte, Montana.
Activities:—Member of AIME, Copper Guards; President of Freshman and Junior Classes; Vice President of M-Club; Secretary-Treasurer of Student Council; Circle K Treasurer; Track—4 years; Football—3 years; Intramurals.
Honor:—Who's Who in American Colleges and Universities.
Scholastic:—Freshman Fee Scholarship; Advanced Fee Scholarship; Cobb Foundation Scholarship.

Edward L. Simonich—Graduate Study, Stanford.
Home Town:—Butte, Montana.
Activities:—Sophomore Class President; Vice President of Student Council; Secretary-Treasurer of M-Club; Corresponding Secretary of Theta Tau; Duke of Copper Guards; Member of AIME, Newman Club, Circle K; Varsity Football—4 years, All Conference—2 years; Intramurals.
Honor:—Who's Who Among Students in American Colleges and Universities.
Scholastic:—Socony-Mobil Scholarship—2 years; Freshman Honor Scholarship; Advanced Fee Scholarship; Honor Roll—8 semesters.

Keith E. Tyner—To work for Sun Ray D. X. Oil Co., Tulsa, Oklahoma.
Home Town:—Conrad, Montana.
Activities:—Member of the Copper Guards, Theta Tau, Amplifier, Magma; Vice President of the Petroleum Section of AIME; Intramurals.

BACHELOR OF SCIENCE IN ENGINEERING SCIENCE:

Carl M. Koskimaki—To work for Mtn. Fuel Supply, Rock Springs, Wyo.
Home Town:—Wolf Lake, Minnesota.
Activities:—Member of Theta Tau, Copper Guards; Secretary-Treasurer of Junior Class; Chairman of 'E' Days.
Scholastic:—Honor Roll—1 semester.

William P. Marx—Further Study, MSM.
Home Town:—Seattle, Washington.
Activities:—Member of M Club, Theta Tau; Varsity Basketball—4 years, Football—1 year; Delegate to Student Council; Secretary-Treasurer of Dorm Council; Student Representative to Faculty Disciplinary Committee.
Honor:—Who's Who in American Colleges and Universities.
Scholastic:—Viola Vestal Coulter Scholarship; AIME Scholarship Loan.

Rudy A. Wachtler—To work for Joy Manufacturing, Pennsylvania.
Home Town:—Connequt, Ohio.
Activities:—Member of Theta Tau and AIME; Football and Track.

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING (Petroleum Option):

Donald C. Hruska—Graduate School, MSM.
Home Town:—Lutherville, Maryland.
Activities:—President of Mineral Club; President of Glee Club; Member of Copper Guards, Intramurals, Pep Band.
Honor:—Who's Who in American Colleges and Universities.
Scholastic:—Honor Roll—1 semester.

James A. Mazza, Jr.—To work for Continental Oil Co., Casper, Wyoming.
Home Town:—Chicopee, Massachusetts.
Activities:—Member of M-Club, AIME; Intramurals, Varsity Football—1 year; President of Sophomore Class; Vice President of Senior Class.
Scholastic:—Gino Diamonti Scholarship—2 years.

J. M. Chelini Will Attend Institute

J. M. Chelini, economic geologist-mineralogist for the Montana Bureau of Mines and Geology, will attend the second annual Pomona College Institute at Claremont, California, from June 18 to July 2. Topic of the institute is modern methods and advances in the chemical analysis and evaluation of rocks and minerals by x-ray spectrography and electron-probe microanalysis.

The institute is designed to assist research workers who are concerned with proper sampling and analysis of rocks and minerals, with quality control, and with evaluation of geochemical data through rapid, automated techniques. Although the methods are applicable to study of metallic ores, the institute will emphasize their application to non-metallic deposits.

In recent years the x-ray fluorescence spectrograph has been developed into an instrument capable of yielding precise and rapid analysis of almost every element in rocks and minerals. The electron probe is a complimentary analytical tool that uses similar x-ray principles to examine chemical variation within distances so small that they are measured in microns (a micron is about 4/100,000 of an inch).

Rapid analysis, combined with properly designed sampling plans and use of high-speed computers, offer a powerful means of solving elemental evaluation problems in basic and applied research. Upon his return, Mr. Chelini will integrate the newest procedures of analysis into current and planned projects of the Montana Bureau of Mines and Geology.

Student Wives Fashion Show and Tea

The Student Wives of the Montana School of Mines presented their annual tea and fashion show on May 2 in the Copper Lounge from 7:30 til 10:30. After the fashion show, bridge was played.

A spring theme decorated the SUB with the models' platform decorated in colorful spring crepe paper flowers and a spring bouquet on each table.

The fashion show, featuring clothes from Hennessey's, showed the latest summer fashions in women's and children's wear. Adult models were: Mrs. Sharon Tyner, Mrs. Mike Lewis, Mrs. Sharon Lindstrom, Mrs. Kent Taylor, Mrs. Judy Tedesco, Mrs. Clifford Laity, Mrs. Julie Thomson, Mrs. Arlene Gale, and Mrs. Diane Fenton. Modeling children's wear were: Laura Sue Caddy, Tom Gale, Laurie Lewis, Keith Tyner, and Beth Ellen Taylor.

Newman Club Elects Officers

The election of officers was a highlight of the recent meeting of the Newman Club. Officers elected for the '65-'66 term were Sparky McGarry, president; Annette Frazer, vice-president; Don Brunell, treasurer; Jean Rau, corresponding secretary; and Linda Murray, recording secretary.

Another event on the Newman Club calendar was the Rocky Mountain Regional Newman Club Convention. This event was held the weekend of May 10, in Missoula. Several students of the Montana School of Mines attended that convention.

STUDENT MANAGER OF THE COPPER LOUNGE

The Student Council will be choosing a new student manager of the Copper Lounge in the near future. In order to qualify for this position the applicants must be active in school activities and concerned with the many aspects of student life. The student manager must also have the respect and consideration of students and professors. Any experience in janitorial supervision and any other form of management will all correspond to form a better student manager. Howard (Trig) Forsythe will manage the SUB next year.

PROFESSIONAL DEGREES TO BE AWARDED

Six professional degrees will be awarded by Montana School of Mines at its sixty-fifth commencement to outstanding persons in fields associated with the mineral industries. Dr. Edwin G. Koch, president, has announced.

The recipients and their degrees are: Henry Johnson, Engineer of Mines; Edgar A. Scholz, Geological Engineer; Dr. William R. Opie and Dr. Albert W. Schlecten, both metallurgical engineers; William H. Peterson, Petroleum Engineer. Each of these degrees is granted *honoris causa*. Additionally, Clifford Wendel will receive the earned professional degree of Geological Engineer.

Johnson is manager of the Montana operations of the Victor Division of Stauffer Chemical Company; Scholz, manager of exploration for Placer Development Limited of Vancouver, B.C.; Dr. Opie, director of research and development for U. S. Metals Refining Division of American Metal Climax Company; Schlecten, head of the Department of Metallurgical Engineering and director, Institute of Extractive Metallurgy, Colorado School of Mines, Golden; Peterson, manager of asphalt sales for Texaco, Inc.; Wendel, Chief geologist in charge of geological work for Maurico-Hochschild Mining Interests in Peru, Chile and Brazil.

Johnson was graduated from Montana School of Mines in 1939 with the degree of Bachelor of Science in Mining Engineering. He was employed as a mine engineer for the Anaconda Company from 1940 to 1944. In the latter year he started with Gravity Meter Exploration Company, Houston, as a party chief and in 1947 rejoined the Anaconda Company as a shift boss and assistant foreman.

Scholz was born in Sand Coulee, Montana. He received the degree of Bachelor of Science in Geological Engineering (with honor) from Montana School of Mines in 1941.

He has been employed successively by Glacier Production Company, Cut Bank, as a junior geologist; The United States Geological Service, Washington, D.C., as an assistant geologist; Martin Brothers, Whitehall, Montana, as exploration manager; Ruby Gulch Mining Co., Zortman, Montana as general manager; Hillside Mining and Milling Co., Bagdad, Arizona, as general superintendent. In 1950 he became an operating partner in Scholz and Cazier, Bagdad, Arizona, and from 1951 to 1960 was president of the Black Pearl Mining Company, also of Bagdad. In 1956 he accepted a position as senior geologist with the American Exploration and Mining Company, and two years later was named vice president of the same firm. He assumed the duties of his present position in 1961.

While with Placer Development Limited he served as director of Endako Mines, Ltd.; vice president, American Exploration and Mining Company; second vice president, Marcopper Mining Corporation; president, Camex Aerial Exploration, Ltd.; director, Magnum Consolidated Mining Co., Ltd.

Opie, a native of Butte, received the degree of Bachelor of Science in Metallurgical Engineering from Montana School of Mines in 1942, attended Stevens Institute of Technology, Hoboken, New Jersey, and in 1946 entered M. I. T., Cambridge. In 1949 he was awarded the degree of Doctor of Science in Metallurgy.

He had been successively employed by Wright Aero Corporation, Paterson, New Jersey; American Smelting and Refining Company, Perth Amboy, New Jersey;

National Lead Company, Sayreville, New Jersey. Opie holds three U. S. patents concerned with titanium production and has authored numerous articles.

Schlecten, received the Bachelor of Science degree in metallurgical engineering from Montana School of Mines in 1937 and in 1940 received the Doctor of Science degree from M. I. T.

He has taught also at the University of Minnesota, Oregon State College, and Missouri School of Mines. From 1944 to 1946 he was employed by the U. S. Bureau of Mines as a metallurgist. He was awarded the ASM teaching award in 1953 and is the mining and metallurgy department editor for the *Encyclopedia Britannica*. He also is an editor of chemical abstracts and in 1967 will be AIME lecturer in extractive metallurgy. Dr. Schlecten has written 50 articles which have appeared in numerous professional journals throughout the world.

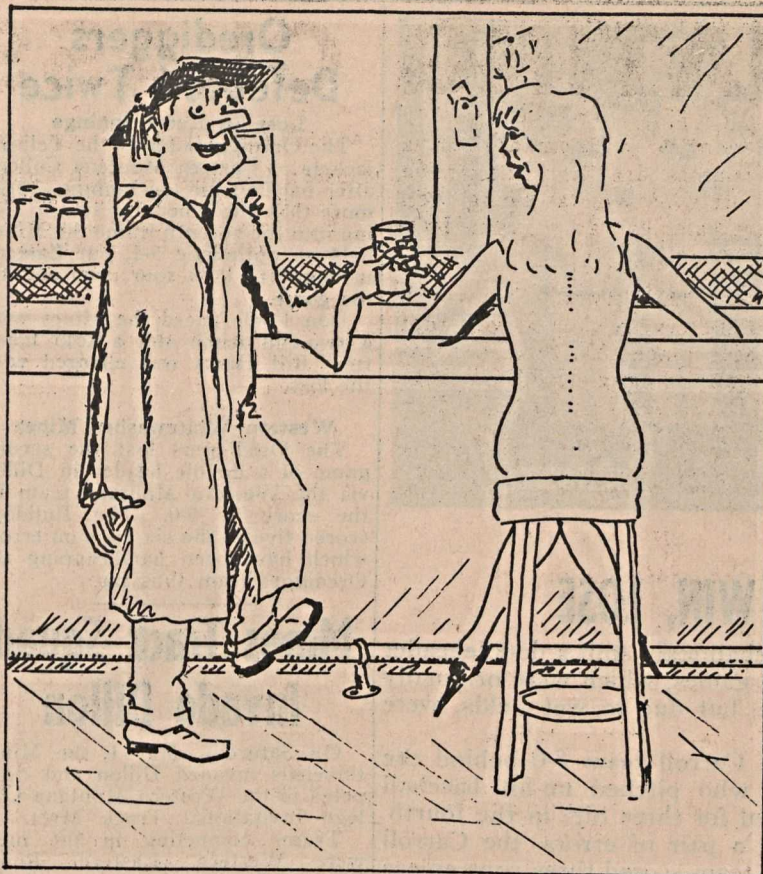
Peterson was awarded the Bachelor of Science degree from Montana School of Mines in 1943. Before joining Texaco he was employed by the Anaconda Company as an assistant mining engineer.

He is interested in petroleum marketing and the technical application and development of petroleum products.

Wendel has served as chief geologist for many firms since his graduation from Montana School of Mines in 1935.

He has worked as a geologist for the Anaconda Company, Butte; as staff geologist for the Maurico-Hochschild mining interest; Pula-cayo, Bolivia; as staff geologist for Chile Exploration Company at Chuquicamata open-pit copper mine in Chile; as chief geologist for the Andes Copper Mining Company in charge of geologic work at Potrerillos; as chief geologist for Lallagua-Unica, Bolivia's largest tin mine until the mine was confiscated by the Bolivian government. For six months (1952-1953) he worked as a free-lance consultant doing prospect examinations in Spain and Spanish Morocco. He became exploration engineer for Guayama Mines, Ltd., Peru.

Professional degrees are awarded by Montana School of Mines to graduate engineers of the college who have established a professional career of at least ten years of which five years have been in a definitely responsible capacity, and who have contributed in an outstanding manner to the furtherance of their profession. Such engineers are eligible to become candidates for the appropriate professional degree of Engineer of Mines, Metallurgical Engineer, Mineral Dressing Engineer, Geological Engineer, or Petroleum Engineer. An engineer, graduated from some institution of higher learning other than Montana School of Mines, who fulfills the above requirements, may become a candidate for a professional degree by invitation of the faculty of Montana School of Mines.



I KEEP THINKIN' THERE WAS SOMEPLACE I WAS SUPPOSED TO GO TONIGHT

BUREAU OF MINES NEW INDUSTRIAL MINERALS PROGRAM

A concerted two-fold program of the Montana Bureau of Mines and Geology is designed to effect greater coordination between consumers of industrial minerals and Bureau industrial mineral surveys in the state. The program consists of (1) establishing the present and near-future industrial minerals needs of manufacturers within marketing distance of Montana, and (2) establishing a comprehensive file on industrial mineral deposits in the state.

To effect results in both phases of the program, manufacturers in Montana and neighboring states and provinces, and individual owners and prospectors are being canvassed for data on needs for and sources of mineral commodities. Industrial mineral deposits for which "Requests for Examinations" are received will be examined and evaluated by Bureau geologists as time and funds permit. Priority for examination will be given to those deposits that contain mineral commodities in greatest demand by manufacturers.

Manufacturers and individuals not canvassed but having knowledge of industrial mineral deposits in Montana and who can contribute information to this survey are requested to write the Montana Bureau of Mines and Geology, Main Hall, Montana School of Mines, Butte, Montana.

Senior High Girls Treated By AWS

The Montana School of Mines Associated Women Students presented a reception for High School Senior Girls on May 2. The reception, held in the Copper Lounge, was to inform the graduating girls of the curriculum and opportunities available at the Montana School of Mines.

Kathy Verona, president of AWS, welcomed the guests and gave the closing remarks. Rena Richards spoke on the social life of a coed at MSM, and Don Podobnik told of the engineering fields open to women. Guest speaker was Professor Gustav Stolz, who gave the graduating students a very informative talk on college life and what they could gain by furthering their education at MSM. During the program, cookies and punch were served to the guests.

Leona Harrison and Margarette Berryman were co-chairmen for this event.

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Have You Heard?

Mr. Laity was heard stating Chevrolet has better steering than Ford.

Our Great Leaders, Tom Semmons and Bill Hicks, were seen performing in rare style M-Day. Have fun kiddies?

Mary Lou Rule, Claudia Reindel, Betty Richardson, and Pat Thompson were honored guests of the city last M-Day. Enjoy your stay girls?

Pat Marx was seen looking for several missing items the day after M-Day. Such minor things as his car, glasses and jacket.

Carol Wold and Pat Thompson were seen tied to the stair rail in ing M-Day festivities at 5:00 A.M. the dorm. Just couldn't tear yourselves away, huh girls?

Kathy Verona, Carol Melvin, and Jane McCarthy will henceforth be referred to as the shaving cream kids.

Colin Reddin was seen directing traffic at the corner of Park and Montana about 2:00 A.M. on M-Day morning.

Overheard at the Frat Beer Bust: John McCaslin saying, "Never let it be said Gus Stolz outdrank me!"

Cheryl Costello and Kathy Verona were seen buying shaving cream and toothpaste in the Finlen at 2:00 A.M. the other night. Have a hot date girls?

The new Rho-Tau Songbook commemorating the first inter-fraternity beer bust was quite a hit. Copies are available from Spike Donegan or Russ Bills.

Mike Arne was heard arousing everyone in the dorm for the coming 'M' Day activities. A little early to be getting started, huh Mike? Must have just been getting in.

Frank Wills' Fan Club was out in full force M-Day. He got the only write-in vote for President!

Bob Lefeldt's popularity in Roundup has gone up three fold.

Hey, Marg, is the truth finally coming out with your new Voodoo Ring?

Judy Hayes has a problem. She keeps loosing her car. Just ask Marcella!

Joe Cunningham was a ward of the city "M" Day night. We understand that the pads offer all the comforts of home—ALMOST.

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HOSEHIDERS WIN, LOSE

Montana School of Mines baseball team split a doubleheader in Helena Saturday, May 8. The games, which were originally scheduled to be played in Butte, but due to wet fields, were switched to Helena.

In the opener, Mines led the Carroll team 5-0 behind the pitching of Don Poole. Poole, who pitched no-hit baseball the first three innings, was rapped for three hits in the fourth. Aided by a couple of walks and a pair of errors, the Carroll nine erupted for five runs. Each team scored three runs apiece in the sixth frame. The final score was 9-8 for Carroll.

The Mines baseball team won its second game of the season by defeating Western Montana College in the latter half of the doubleheader 6-5 in an extra inning game. Western scored in the first inning but Mines knotted the count at one all in the last half of the inning. Mines took a 2-1 lead in the third. In the last half of the inning Mike Marinovich doubled to drive in two runs and then scored himself on Bill Hick's single. Neither team scored until the seventh

inning when Western pushed across the tying run.

In the bottom of the eighth inning Mickey Lynch led off with a triple. John Sutey and Don Poole walked to load the bases and then John Hanley rapped a single through the middle to score Lynch which was the winning run. Bill Hicks, who went the distance for the Mines, was credited with his second win of the season.



Pre-M-Day Socials

As tradition specifies, pre M-Day refreshments were enjoyed by many MSM students on the Tuesday afternoon and evening preceeding M-day. Even though the location of the party was split into factions, as opposed to the gulch site of previous years, the students who attended enjoyed themselves immensely.

The fraternities on campus, Sigma Rho and Theta Tau, staged their first annual Rho-Tau beer bust at the site of the Plutus mine, two and one-half miles west of the campus. Food and drinks were served throughout the afternoon and evening. Honored guests were Professors Stolz and McCaslin, and Tom Downey. Entertainment was provided by the Bumps-Mitch-Gooch trio. Those who attended reported that the party was a tremendous success.

An open party was staged by the remainder of the students who desired refreshments at Columbia Gardens. Refreshments were served throughout the afternoon. Athletic contests were enjoyed by many of the students who attended the gathering.

Even though the Tuesday afternoon tradition was threatened by unfortunate events which overshadowed the success of last years' M-Day, the students of the school chose to keep the tradition alive. Congratulations are due the student body for staging a successful, orderly and trouble-free warmup for M-day.

Orediggers Defeated Twice

Lose In Extra Innings

The Orediggers fell to the Yellow-jackets of Eastern Montana College after battling for ten innings—three more than the scheduled seven. Going into the seventh frame the Mines held an optimistic 5-1, but Eastern managed to tally four runs and tie the game.

Don Poole paced the Mines with a two-run triple and a solo home run. Bill Hicks was charged with the loss.

Western Whitewashes Mines

The Orediggers lost the second game of a double header in Dillon via the Western Montana team by the score of 6-0. The Bulldogs scored five of the six runs on errors which have been handicapping the Oredigger team thus far.

Mines Track Squad Invade Dillon

On Saturday, May 1, the Mines thinclads invaded Dillon and competed in the Western Montana College Invitational Track Meet.

Teams competing in the meet were Western, Eastern, Ricks, Rocky, Carroll, Northern and the Mines.

The boys who made the trip for the Mines were: Don Brunell—mile and relay, Frank Koskimaki—440 and relay, Curt Peterson—440 and relay, Bart Penny—javelin and discus, Ken Scherr—880, Ron Lowney—100, 220, and relay, Joe Holland—broad and high jump, Dan Pizzola—pole-vault and Creighton Barry—pole-vault.

Men scoring for the Mines were: Don Brunell, 3rd in the mile, Frank Koskimaki, 4th in the 440, Ron Lowney, 5th in the 220, and Curt Peterson 6th in the 440. The Mines relay team of Koskimaki, Lowney, Peterson, and Brunell nosed out Western for third place. The Mines scored a grand total of 7 points in the meet, while Ricks the winner of the meet scored 55½ points.

The next meet for the team is in Billings on May 14.

Junior Prom

The Junior Class recently held the annual Junior Prom in the Silver Bow Room of the Finlen Hotel on Friday, May 21, in honor of the graduating Senior Class. The cost was \$1.75 per couple. Music was provided by Tony Difronzo and his band. The theme being "Golden Fantasia" was carried out with gold and silver floral pieces adorning the tables surrounding the dance floor. Punch was served.

The Junior Class officers Bill Thompson, President; John Koger, Vice President; and Bob Frantz, Secretary Treasurer made all the arrangements for the dance.

Among the patrons and patronesses for the prom were the Senior Class, Governor Tim Babcock, Mayor Tom Powers, members of the Board of Regents, officers of the MSM Alumni Association and faculty of MSM.

Congratulations to the Junior Class on the big success of the dance which was well attended.

MINES DROP A DOUBLEHEADER, 26-1, 2-0

MSU hitters collected 22 hits in the second game of a doubleheader in Missoula to win by a score of 26-1, after barely slipping by the Mines in the first game.

Wally O'Connell of the Mines pitched a 2 hitter the first game. Frank Spear, a Butte native, collected the 2 hits off O'Connell. MSU's DeMers and Oddy combined to throw a one hitter at the Mines. Ken Tholstrom pounded the only hit for the Mines. The final score in the game was 2-0.

Coach Bill Cullen used five pitchers in the second game. John Sutey started and went one-third of an inning, and gave up 8 runs. Hicks relieved Sutey and pitched one and two-thirds innings, giving up 3 runs. Lawrence followed Hicks and worked one-third of an inning also. Poole and O'Connell, respectively, finished the game for the Orediggers.

The Mines collected 7 hits off two Grizzly pitchers and scored one run. But the Mines left eight men stranded on the bases during the course of the second game. Although the score doesn't show it, the Mines had one of their best hitting games so far this season. Tholstrom and Poole cashing in on most of the hits for the Mines.

The losses left the Orediggers with a 1-5 overall record and a 1-1 conference record.

M Club Enjoys Dinner-dance

A dinner-dance was enjoyed by members of the M Club Saturday, May 15. The evening highlights were a dance at the Columbia Gardens pavilion with music by the famed Si Zentner and his band and a steak dinner at Lydias. At this time, Coach Ed Simonich was honored for his 25 years of coaching and his work at the School of Mines. Out-going president, Bill Madison, presented him with a large silver football and thanked him for the many things he has done for the School of Mines students.

Coaches Tom Lester, Jimmy Freebourn, Gene Downey, Danny McCarthy and Bill Cullen were guests of the M Club.

New officers for the 1965-1966 school term are: president, Bill Daily; vice-president, Creighton Barry; and secretary-treasurer, Ken Tholstrom.

Dedication . . . 25 Years In Sports

by Marcella Burke

For 25 years Ed Simonich has been known throughout Montana as one of the leading sportsmen of all times. He has dedicated his time and work for the betterment of the physical well being and moral lives of many young men and women.

"Big Ed" started out in sports at Luther L. Wright high school in Michigan. There he lettered four years in football, basketball and track. After graduating, he enrolled in the University of Notre Dame. Here he played three years as a varsity fullback and linebacker. He majored in liberal arts and physical education and graduated in 1939 "cum laude."

In the Fall of 1939, he began coaching at Carroll College. In the Fall of 1945, he played a season with the Chicago Bears. He then coached three seasons of basketball and two of football at Butte Central. From 1947-1955, he coached at Trinity High School in Sioux City, Iowa and later returned to Butte Central.

Ed Simonich started coaching all sports at the Montana School of Mines in 1957. Ever since he has worked hard to produce fine athletes from the school. He has coached golf, football, basketball, baseball and track and under him there have been many winners.

Besides being an all-around sportsman, he is also very active in community affairs. This past year he has been chairman of the Elks Youth Program. For the last four years he has been a judge on the youth scholarship and leadership committees for the Elks. He has acted as chairman of Parks and Playgrounds in Butte's Citizen's Project.

Under this program, the noise parades were started in Butte. For the last five years he has been chairman of the National Association of Intercollegiate Athletics.

Coach Simonich, besides marking his 25th year of coaching, is also celebrating his silver wedding anniversary. His wife is the former Cecilia La Forge, a native of his home town of Ironwood, Michigan. They are the parents of six children, Ed, Tom, Mary, Susie, Peter, and Paula.

For his many years of service and influence, the faculty and students of the Montana School of Mines thank him on this his 25th anniversary of coaching.

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