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Associated Students of the Montana School of Mines

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Montana School of Mines AMPLIFIER

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BUTTE, MONTANA

Friday, March 5, 1965

SENIOR INTERVIEW TRIPS

Engineers are in great demand, and the prospects are that the supply of engineers will not meet the demand in the foreseeable future. This demand is evidenced by the number of Montana School of Mines seniors who have been invited to inspect the operations of the larger companies in the Western United States. These trips are particularly advantageous to the graduating engineer in that they give him a chance to observe, first hand, the opportunities and working conditions which a company has to offer.

This winter, the seniors of the Petroleum Department have traveled the width and breadth of the Western United States. Joe Kandle and Curt Peterson flew to Los Angeles, California, to observe the operations of Socony-Mobil Oil Company. Curt Peterson also interviewed Shell Oil Company in Los Angeles. Jack Weaver, Jim Mazza and Dick Roberts traveled to Casper, Wyoming, to observe the operations of Socony-Mobil Oil and Pan American Petroleum there. Sunray DX flew Keith Tyner and Bill Madison to Tulsa, Oklahoma, for interviews and inspection tours.

Don Podobnik, a senior in metallurgy, and Ray Hyyppa, a senior in mining, flew to Silver Bay, Minnesota, to observe the operations of Reserve Mining Company. Jim Jenks will travel to Silver Bay in the near future.

Graduate students, Bob Shogren and Dan Rovig have also made trips this winter. Rovig, a mineral dressing engineer and recipient of the Donald W. McGlashan Fellowship last year, has made a trip to Salt Lake City, Utah, to interview Kennecott Copper Company, and to Solver Bay, Minnesota, to interview Reserve Mining Company. Shogran, a metallurgical engineer, flew to Waterloo, Iowa, to interview John Deere Tractor Company.

Stolz and Careers



On February 9, Professor Stolz, Associate Professor of Petroleum Engineering, presented a talk to the Christian Brothers' High School on the advantages of engineering as a vocation. He opened his talk with a description of engineering and pointed out that the field has as many advantages as any other profession. Professor Stolz mentioned the attractive features of engineering. Among these features, according to Professor Stolz, are personal satisfaction, service to society and good pay.

He also stated that there is an increasing and tremendous demand for engineers today. English, math and science are the school subjects which Professor Stolz thinks are the most essential. The skills most needed are the ability to think, study and communicate.

In addition to Professor Stolz's talk to local high school students, he has made available to all high schools in Montana a pamphlet entitled *Career Opportunities in Oil*, a study-in-depth reprint from the November 9, 1964 *Oil and Gas Journal*. The journal is for the use of counselling all college-bound students.

VALENTINE DANCE



The Freshman Class held its annual Valentine Dance Monday, February 16, at the Student Union Building.

The Decorations Committee artistically decorated the SUB with red and white streamers, cupids and a large revolving heart in the center. The danger of heart attack was the health and artistic motif of the dance. The tables were decorated with white candles and laden with delicious cake and punch, which were served throughout the evening.

This was truly the evening set aside for St. Valentine, and the entire atmosphere told the story—gaity, laughter and stardust filled the air.

Music was provided by the Dimensions, including John Domitrovich, Jim Pomroy, Bill Goodman and Dennis Abeyta.

The success of the dance was contributable to those members of the various committees who worked diligently to achieve near perfection in carrying out their responsibilities as a committee. The following were responsible: Pat Tomson, chairman of decorations and her committee included Linda Murray, Louann Butala, Marcella Burke, Leona Harrison, Greg Baird, Charlie Ljungberg and Ernie Bond. Joan Britton and Carole Fanning were in charge of publicity. Programs were made by Ed Hislop and Joe Toy. John Domitrovich was in charge of music, and Carole Wold and Claudia Reindl were responsible for refreshments.

The story can be further told by the following poem written by Ernie Bond, entitled "Valentine Ball."

Sweethearts together
Eyes smiling into eyes
Love radiating
To the darkest corner
Music—soft and low
Emotion
Fills the air
Valentines floating
Unseen and discreet
Cupid going wild
Sweethearts dancing
The fragrance of flowers
Enticing the senses
Crowning her beauty
With the final artistic touch
Of the Master
The hearts are praying
Let this night never end
Let it linger in our memories
Forever

Dedication and responsiveness to any function is rewarded by success which sums up the recently-held Valentine Dance.

WANTED

By
Coach Simonich
A 100, 220, 440 and 880 Man;
Pole Vaulter and High Jumper

Seven Students Attend Governor's Prayer Breakfast

On Tuesday morning, February 16, seven students from MSM attended the fifth annual Governor's Prayer Breakfast, held in the Civic Center in Helena. Those representing the Mines were: Robert Toivenen, John Eaton, Mick Hanley, Marcella Burke, Judy Hayes, Norm Stone and Tom Downey.

Guest speaker at the breakfast was Judge Boyd Leedom of the N.L.R.B., Washington, D. C., favoring his very excellent talk with many political jokes Judge Leedom seriously expounded the necessity of God in the daily lives of men. He was of the opinion that the modern world, especially the American Society, was Godless and as a result, a great deal of moral, intellectual and spiritual decline was defacing our national character. Judge Leedom called to attention the special character of Abraham Lincoln, recalling the deep religious convictions of the man considered to be the greatest American President. He stressed Lincoln's humility and courage to call on God for guidance and help during his darkest hours. It was the opinion of the Judge that if all men were to make a spiritual change within themselves as individuals, then each man's power of creativity would receive powerful stimulation from God, "the Source of All Creation."

This was the first time students from the Mines were present at such a function. After the Prayer breakfast, a luncheon was held at the Carroll Commons, on the campus of Carroll College. In April, a Prayer Breakfast will be held at Carroll, for college students in Montana.



This Is Sissy

Miss Shirley 'Sissy' Panion is a pretty 22-year-old Freshman Coed here at MSM. She is a native of Butte and is a 1960 graduate of Butte Girls Central High School. This is her first semester in college. She has charm and courage that won't quit. Her goal is to be a speech therapist and work with children. She has her own phone and drives her own car. Fred Bates a long-time friend of Shirley's and student at MSM, is her co-pilot in case of a flat tire or any other mishap. He also takes charge of her wheelchair and books on campus.

About fourteen months ago, Shirley was happily playing baseball with her friends. She jumped to reach a fly ball and fell and broke both her hips. Instead of healing after being set, the bones deteriorated. Dr. W. H. Walton of Billings, has performed four operations to give Shirley back her legs, and he expects her to be walking around and dancing by the end of summer. Sissy, as she likes to be called by her friends, has spent five months out of the last year in the hospital. She has withstood a lot of pain, sometimes with the help of drugs, and sometimes just bearing it. Just moving from her house to the car is pain. Going up and down the steps at MSM is pain. Pain is also being called a cripple, which she utterly refuses to be, and upon observation, isn't. She looks forward to the day when she can give up the crutches and wheelchair and enjoy life standing up like she was some fourteen months ago. Misfortune seems to be a part of her family. Her father passed away some years ago and her mother, who is now a cook at the Aro Cafe, broke her back when Shirley was young and was in bed for several years.

When asked how she liked college, Shirley said: "I really like it. The teachers are very friendly and helpful. Everyone has been helpful. They don't seem to mind helping me up and down the steps." (And what healthy red-blooded American College man doesn't enjoy helping to carry a pretty young lady Coed up and down steps?)

When she is not studying, 'Sissy' likes to read anything from science fiction to Shakespeare. She spends some of her time baby sitting for her relatives. She enjoys crossword puzzles and games like monopoly, scrabble, and chess.

She says that she and math don't work out, but you would be amazed at the number of telephone numbers she has memorized.

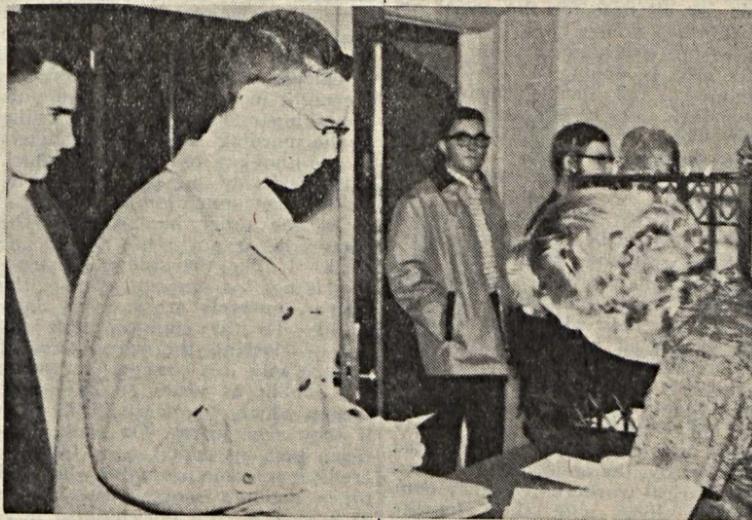
Happiness is spending Saturday afternoon at Gregson Hot Springs. The buoyancy of the water holds enough weight off her legs so she can walk around without aid. It also makes her feel much better.

I asked her where she got all her enthusiasm; she said: "I thank my family and the Reverend Albert Kaporich for pushing me along."

'Sissy' is a very friendly, outgoing person. She likes people. When you meet her in the halls or on the steps, welcome her to MSM with a smile and a 'HI'.

Flunkers Frolic

At the beginning of the Spring Semester, a dance was held on Registration Day, January 18. The dance was sponsored by the MSM coeds. It was held at the Student Union Building immediately following the Mines-Eastern game. Music was provided by records.



REGISTRATION

Registration week began promptly at 8:00 Monday morning, February 8. At the time of this writing there are 467 students enrolled. This is a new record for second semester enrollment at the Mines. Last year's second semester had a total of 410 students attending and the second semester for the year '62-'63 had 359 students in the school.

This semester there are 78 women and 389 men registered. This is a ratio of about one to five. A mere detailed breakdown sees 65 freshmen engineering students, who are all men. There are 196 men enrolled as freshman general students, and 46 women. There are 45 men in sophomore engineering, and 1 woman. The sophomore general class has 69 men and 29 women. The junior class has 41 men and 2 women. The senior class has 35 men; and there are 28 graduate students, all men.

According to the Registrar's Office, the registration process had gone more smoothly than it had in the past. Dr. A. J. Smith, who is head of the Registration Committee, said that he felt that it did go more smoothly and that this could be partially due to Pre-registration, which extended a week before Registration Day.

Podobnik Gives Seminar On Iron Ore

On February 16, Donald J. Podobnik gave a seminar on the Iron Ore Beneficiation of the Reserve Mining Company. Mr. Podobnik, a senior in Metallurgy, described the operation in which a low grade iron ore, taconite, was concentrated to a sufficiently high value to be used in a blast furnace.

Mr. Podobnik sacrificed his semester break in order to go back to the main plant of the Reserve Mining Company, located in Silver Bay, Minnesota, so that he could get a first hand look at how this process was carried on. He also got all his information for his seminar while in Minnesota.

Coed Mishap

Last Saturday afternoon, Mary McGrath, a member of the Amplifier staff, met with an accident and was taken to Silver Bow General Hospital for treatment. Mary was skiing at the Z-Bar-T when she managed to cross the tips of her skis, thereby breaking her leg. She received a compound fracture in her left leg, but she is anxious to get up and around.

ON CAMPUS DISCRIMINATION

With the world around us torn in pieces because of man's insufferable weaknesses of pride, hate, suppression, and ironical discrimination, we who are students at the Mines were fairly well sheltered from too much explosive disruption. Our lives went on in relative peace and security. Many of the problems which had beset the student body in recent years, such as the argument over which was the most important groups, engineers or general students, was solved in a growing spirit of understanding, providing strong evidence of our ability to change and mature. Then, without warning or acceptable reason, the practice of discrimination was renewed, this time by the short-sightedness or whatever else might be the explanation on the part of the school administrators. Several general students had applied for National Defense Education Act loans for the second semester, and were refused. Reason given for the refusal—because they are general students. To tell a general student he is not eligible for an N.D.E.A. loan just because he is a general student is, basically, the same as telling the Negro, who is a native American citizen by birth, that he cannot exercise a constitutional right, guaranteed to every American citizen, regardless of race, creed, color, or sex; because he is a Negro.

Justification for the refusal to grant the loans to general students is sorely wanting. In the future, obviously, those whose position it is to meet student needs and problems, will have to accept the fact that a general student has as much right to a loan sponsored by the Federal Government as an engineering student. There is not an acceptable excuse for the failure to anticipate student requests when application is made for allotment of Federal Funds to supply the money necessary for loan applications. We are certain that the Federal Government would not refuse to advance loans to general students simply because they are general students. Our need is real, our potential service to national security and betterment is real and vital, our right to the loan is provided for. Hopefully, in the future, more pains will be taken to see that the needs of ALL students are accommodated, especially in the eyes of those discriminated against, will suffer badly.

—Tom Downey

A Gay and Festive Occasion

The people of this country have in the last few years become knowledgeable of the strange term Hootenanny. An ABC Television program of the same name brought the word to popular household usage.

The Hootenanny applies to a general songfest—mainly folk songs—presenting the best of the songs in our American heritage. Songs of love, labor, spirituality—with strong emphasis on Negro spirituals—immigrant ballads brought from other countries, song of inspirational patriotism and of true emotion. A Hootenanny is meant to be an enjoyable, rollicking function for all concerned.

Last Saturday night we at Montana School of Mines were mistreated to what was mistakenly described as a Hootenanny. Many students and others who participated and attended this "tribute to folksong," were grossly misled as to the content and purpose of this function. Because of an overabundance of church-oriented music, there was created a nervous and solemn atmosphere which is highly detrimental to any good Hootenanny. It also struck this writer that this "gay and festive occasion" was nothing but a membership drive for the Inter-University Bible Study Club.

Religious clubs on campus—in this writer's opinion—serve an extremely necessary function in any college's extra-curricular life. The college student tends to become overly cynical in his process of maturation, and the presence of religious clubs gives him a chance to enrich and retain the spiritual life so necessary to a person who must live in this age of danger, tension and false values.

To hold a religious recruiting drive under the thinly veiled auspices of a Hootenanny, however, is false in its purpose. The word "damn" was purposely cut from one very good folk song. Another ditty describing the infatuation of a frog with a mouse, was dropped because of its suggestive nature. The song "Three Jolly Coachmen" was not allowed to be performed because it was thought it might lead to drunkenness. This is not a real Hootenanny; it is proscribed, unadulterated humbug.

If we, at MSM, continue to hold this fascinating function, let us bear in mind the following: Religious and so-called moral indoctrination is out; as for the folk songs, let no one tamper with the original lyrics. Hootenannies are not religious revivals.

—William McLaughlin

SELF EVIDENT TRUTHS

We often tell ourselves that since we are college students and potential graduates we are somehow "supreme," the cream of the human population. But in all honesty, are we? Obviously, we are here for various reasons, some good, some deplorable. Many of us are in college because we need to be challenged, intellectually and spiritually. We are all here for the social opportunities college life affords. Some of us are collegians because "every one else is doing it," or because "mommy and daddy" insist that their little ones be educated whether they like it or not." These are two very destructive reasons which do vast damage to those who are so motivated.

This "Great Society" which our age is being called, now idolizes the college graduate with many fine reasons; and yet, it seemingly feels justified in defiling those who do not further their education. What is the justice in ridiculing men who are neither capable nor desirous of advanced education? They do not earn "good" money; therefore, they do not contribute to our society. They are crude and uncultivated. Apparently, the majority of laborers and clerical workers live fairly comfortable lives with their income, probably because their money is just as good as ours. Their contribution to society is greater than ours because there are more of them, numerically; and if they didn't perform their services, we would have to do it. My God, can't you just see the chaos? As for their being cultured: think of some person you know who is a miner, or a truck driver, or a clerk; now look at your schoolmates. Are your classmates more dignified? Do they swear less? Are their manners becoming and plausible? Do they drink more or less than your other friends and acquaintances? Actually, Joe College and Joe Miner have more things in common than they have differences. Besides, there are more "neat" miners than there are "neat" students, and if you don't think so, see Mr. Vine and find out for yourself.

It certainly isn't a question of being "better" than the others, but rather a situation in which we are all equal in different ways. If a miner loves life as much as an engineer or teacher or writer, then how are they better than the miner? If a truck driver is as faithful to his wife as a college professor is to his wife, would the professor have the better quality of faithfulness? If I am honest and you are honest, then we won't pay any attention to these lies about how much better we are than the rest.

—Tom Downey

Engineering As A Profession

by Herbert Hoover

Article in *Engineer's Week*, 1964

Engineering training deals with the exact sciences. That part of exactness makes for truth and conscience. It might be good for the world if more men had a sort of mental start in life even if they did not pursue the profession. But he who would enter these precincts as a life work must have a test taken of his imaginative faculties, for engineering without imagination sinks to a trade. And those who would enter here must for years abandon their white collars except for Sunday.

The profession means years on the lower rungs of the ladder—shops, works, and powerhouses—white collars are not a part of the engineer uniform. On the other hand, the engineer learns through work with his own hands not only the mind of the worker, but the multitude of true gentlemen among them. And men who love a fight with nature, who like to build and see their building grow, men who do not hold themselves above manual labor, men who have the moral courage to do these things soundly, some day will be able to move to town, wear white collars every day, and send out the youngsters to the lower rungs and the frontiers of industry.

It is a great profession. There is the fascination of watching a fragment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realization in stone or metal or energy. Then it brings jobs and home to men. Then it elevates the standards of living and adds to the comforts of life. That is the engineer's high privilege.

The great liability of the engineer compared to men of other professions is that his works are out in the open where all can see them. His acts, step by step, are in hard substance. He cannot bury his mistakes in the grave like the doctors. He cannot argue them into thin air or blame the judge like the lawyers. He cannot, like the architects, cover his failures with trees and vines. He cannot, like the politicians, screen his shortcomings by blaming his opponents and hope that the people will forget. The engineer simply cannot deny that he did it. If his works do not work, he is damned. That is the phantasmagoria that haunts his nights and dogs his days. He comes from the job at the end of the day resolved to calculate it again. He wakes in the night in a cold sweat and puts something on paper that looks silly in the morning. All day he shivers at the thought of the bugs which will inevitably appear to jolt its smooth consummation.

On the other hand, unlike the doctor, his is not a life among the weak. Unlike the soldier, destruction is not his purpose. Unlike the lawyer, quarrels are not his daily bread. To the engineer falls the job of clothing the bare bones of science with life, comfort, and hope. No doubt as years go by people forget which engineer did it, even if they ever knew. Or some politician puts his name on it. Or they credit it to some promoter who used other people's money with which to finance it. But the engineer himself looks back at the unending stream of goodness which flows from his successes with satisfactions that few professions may know. And the verdict of his fellow professionals is all the accolade he desires.

The engineer performs many public functions from which he gets only philosophical satisfactions. Most people do not know it, but he is an economic and social force. Every time he discovers a new application of science, thereby creating a new industry, providing new jobs, adding to the standards of living, he also disturbs everything that is. New laws and regulations have to be made and new sorts of wickedness curbed. He is also the person who really corrects monopolies and redistributes national wealth.

Here's to you Mister, whoever you may be—

You're just the man of the evening
You don't mean a darn thing to me.
But if I should drink your liquor,
And get a bit tight,
I hope you'll be a gentleman,
And see that I get home all right.
But, if in the end, you and your
Technique should conquer—
And you pass the test,
Here's to you Mister—you're a
Better man than the rest.

Sympathy is what one girl offers
another for the details.

Herbert Hoover

Herbert Clark Hoover, the 31st President of the United States, died on October 20, 1964, at the age of 90. His death and his life should have a deep, personal meaning for all engineers.

Mr. Hoover graduated from Stanford University with a B.A. in mining engineering in 1895. He began his career by pushing a car in the lower levels of the Reward Mine in California on a ten-hour night shift, seven days a week. For the next nineteen years, he practiced mining engineering all over the world. At the outbreak of World War I, he turned from private endeavors to public service. He served as Secretary of Commerce under two American Presidents and then assumed the role of Chief Executive only months before the Great Depression.

For his extraordinary range of public and humanitarian services, he received almost a hundred honorary degrees, more than a hundred honorary medals and over two hundred testimonials and awards.

Mr. Hoover is an outstanding example of what engineers can accomplish when they go beyond the immediate range of professional work and apply their understanding to the needs of the community, state, nation and world-at-large. This is a calling that, to a large extent, must be sought and created by the individual, as Mr. Hoover did with such profound benefit to his fellowmen.

In his later years, he always welcomed discussion on how engineers may take their place in national and international affairs. He was deeply gratified to learn of the work that American engineers and management people are doing toward international cooperation and assistance on behalf of underprivileged nations.

The Meaning of E-Days

Engineering Days, a tradition which began in 1957 at the Mines, has continued on a once-every-two-years basis. The occasion has been scheduled for March 26 and 27 this year.

E-days is an opportunity for the people of Montana to become acquainted with the educational facilities and methods of the Mines. Every department and organization sets up displays or conducts demonstrations intended for this purpose.

Students attending the Mines in 1963 or other years when E-days were held, will remember the festive occasion as active days filled with satisfaction of being able to share student pride in the Mines with the people of this community and state.

Watch the *Amplifier* for reports on the progress of E-days. All students should anticipate a festive occasion, a glorious occasion, a meaningful occasion.

King Solomon and King David
Led Merry, merry lives;
Had many, many sweethearts
And many, many wives.
But when old age crept over them
With many, many qualms,
King Solomon wrote the Proverbs
And King David wrote the Psalms!

I like blondes platinum
With some fatinam
For the pleasure of patinam.

"Is this the Salvation Army?"
"Yes."
"Do you save bad women?"
"Yes."
"Well, save me two for Saturday night."

From The Desk of The Student Body President

by Bob Toivonen

FOR THE RECORD



On the fifth of February the Student Council of MSM attended a scheduled hearing in Helena with the House Appropriations Committee to discuss the ill effects of a raise in student fees, particularly the \$270 raise for non-resident fees. A prepared statement was presented to the committee, and its contents were discussed in detail. That such an increase in fees would reduce out-of-state enrollment drastically was emphasized. That such a decrease in enrollment would detract from the national and international prestige of MSM was also stressed. It was noted that a 50% decrease in non-resident student enrollment has occurred at MSM since the last increase in non-resident fees two years ago. Because Montana law provides that education is to be tuition-free to residents of Montana, the Student Council emphasized the fact that continued increases in student fees would seem to be actually the charging of tuition, under the guise of fees. The committee expressed sympathy with our plight, but offered no encouragement. The passage of the bill seems imminent.

Now let us change the subject to another important issue. Just what is E-Days? Is it Escape-Days? Is it Enmity-Days? Maybe it is Elimination Days. Actually E-Days, Engineering-Days, is an opportunity for all students at MSM to esteem their school and to share their knowledge with the public. A successful E-Day is not a result of desultory scheduling. It requires much time and careful planning. This year E-Days have been thought of as Escape-Days—escape the work involved, someone else will do it—escape the planning, "for planning is too much work for my brain." If planning is not begun shortly, E-Days may well become Elimination-Days, a preliminary step to the elimination of this event altogether.

One is amazed at the response of the public when it is shown the Tinius Olsen Testing Machine or the X-ray Diffractometer. The name of the apparatus may appear awesome, but one only requires a short briefing to master the machine's operation. For E-Days, two years ago, a student, who planned to major in history, operated the Tinius Olsen Testing Machine and had such a great time that he was even doing encores. Since E-Days represents a grand opportunity to advertise our school, let this be the biggest and best one the Mines has ever known.

He: "What would you say if I were to steal a kiss?"

She: "What would you say to a guy who had a chance to steal an automobile but only took the windshield wiper?"

Sometimes a woman doesn't care for a man's company unless he owns it.

The big time Charlie said to the beautiful Indian girl: "I've got a quarter that says I can take you out and show you the best time you ever had."

Retorted the girl: "I've got a Buck that says you can't!"

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Senior Class Holds Meeting

On February 18, a meeting of the Senior Class was held in Room 108, Petroleum Building, with President Mansoor Awan, presiding. The subject under discussion was the possibility of a field trip to be undertaken in the latter part of May.

Two possible destination points were considered—Denver and Seattle. The majority vote finally selected Denver, Colorado. A committee made up of a representative from each of the engineering departments was selected to work out the details of the proposed trip. The committee members include Don Podobnik, metallurgy; Don Hruska, geology; Jim Ek, mineral dressing; Larry Eaton, mining; and Pat Marx, engineering science. Ed Simonich, petroleum, is the chairman.

The other officers of the Senior Class include: Jim Mazza, vice-president; Jim Ek, treasurer; Rodney Ylitalo, secretary.



Boiler Tender and Walkerville Judge

by Doc Jordon

Most of the people who pass through the halls of Montana Tech. are aware of the existence of John Medvit, but few realize that this little fellow is the esteemed Police Judge of the great city of Walkerville. John has held the position since 1958 and is hoping to be re-elected in 1965. We are indeed fortunate to have such a versatile man employed at our institution. This seemingly small fellow has worked at a variety of positions in his life, and before he began his term of service as a stationary engineer he worked at the butcher trade, ran a grocery store, owned and tended a tavern, worked as a garbage collector and spent a great deal of time prospecting.

John was born, naturally, "on the top of the world" where he yet resides in a location known to Walkerville folks as "Hungry Hill." He is the father of four children, two daughters and that many sons. Of his daughters, Sharlene lives with her father and Sharon is married. John's oldest child, Eddy, is serving in the United States Navy and the other, John, Jr., is a Brother at the Essex Catholic High School in New Jersey.

Mr. Medvit has worked on this campus since April 1960 and insinuates that he will remain here as long as he is needed.

He has few vices and his hobby is working in his fine garden where he displays still another great talent, a green thumb.

A man can be no more lost than when he cannot find himself.

A man's spirit conspires to noble deeds—his execution of these leaves much to be desired.

A person's fear can be no greater than the unknown of another's thoughts.

Alumni News

Professional Engineering Tests

Professional Engineering tests were given on the Montana School of Mines campus on December 19 by the Montana Board of Registration for Professional Engineers. The following MSM alumni were among those who passed: L. H. Lueck, ('60, Masters, Petroleum Engineering), Gordon D. Lanouette ('49, Petroleum Engineer), Robert G. Mock ('60, Petroleum Engineer), and Peter H. Sweeney ('59, Mining Engineer).

Graduates Honored

Lee W. Saperstein ('64, Mining Engineering) was mentioned in the December issue of *The Newsletter*, a publication of the Council of Education of the AIME. Saperstein is presently at Oxford where he has been awarded a Rhodes Scholarship for a two-year course of study.

Ken Arne ('64, Mining Engineering), who is employed by Pan American Petroleum Corporation, has been promoted and transferred from the company's Powell, Wyoming, to its Casper, Wyoming, offices.

Alumni Graduates From Banking School

Of 268 theses submitted by graduates of the Stonier Graduate School of Banking last June, 26 were selected to be placed permanently in the libraries of the American Bankers Association at Rutgers and Harvard. Among the theses selected was John H. Ferry's, who graduated from MSM with a Bachelor of Science degree in Geological Engineering, class in '44. He is presently vice-president of the Denver United States National Bank, Denver, Colorado.

A copy of Mr. Ferry's thesis is to be placed in the Montana School of Mines library through the courtesy of the Denver United States National Bank. The following is an abstract of Mr. Ferry's thesis:

Abstract

"This work is an introductory guide that provides the non-technically oriented banker with the means for developing a fundamental working knowledge of the appropriate contents, the objectives and the banking uses of appraisal reports on producing oil and gas properties. Discussions are presented on problems confronting the appraiser of petroleum reserves; on factors affecting the reliability of appraisal reports; and on the use of reports for the design of property margined loans. The thesis incorporates elementary information contributing to the banker's ability to judge the quality and acceptability characteristics of petroleum properties offered to him for loan repayment purposes."

A.C.T. REQUIRED

The American College Test is required by all the units of the University of Montana, private Montana colleges, and in many out-of-states colleges and universities.

The next national testing date for the American College Testing Program is April 24, and this will be the last opportunity for students to take the test at the Montana School of Mines until the next academic year. The registration deadline for the test is April 3. Additional information may be obtained in the Registrar's office.

A total of 295 examinees appeared on Saturday, February 20, to take the ACT at MSM.

Buffalo Bill (W. F. Cody) is buried on top of Lookout Mountain near Golden, Colorado.

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GERMAN CLUB TO BE FORMED

Professor Simon would like to announce the formation of a German Club, which will begin its activities in approximately ten days. All are welcome to the meetings of the Club—both students and the townspeople of Butte. At MSM, all the talks delivered should be of interest to all departments.

The first speaker, who will deliver her address in English, will be Mrs. Nita Holmstrom of Butte. Mrs. Holmstrom came to the United States from Bremen about a decade ago. The topic of Mrs. Holmstrom's talk will be, "A Young Woman's Impressions of Nazi Germany."

Once again, all are welcome; refreshments will be served; no membership dues are required; and there will be a question-answer period following Mrs. Holmstrom's talk.

For further information regarding the German Club's first and successive sessions, students and townspeople are requested to contact Professor Simon as early as possible.



Shanty

by Doc Jordon

John Joseph Crowley is the maintenance man responsible for the upkeep of one of the newer buildings on campus. "Shanty," as he is called by his friends, does a bang-up job of keeping instructors and students happy with his work in the Petroleum Building.

"Shanty" came to work at the "Mines" in December 1963. Before joining the campus maintenance staff, he worked as an electrician on the Butte Hill and previous to that he was an over-the-road truck driver for Safeway Stores, Incorporated.

He was born in Butte and attended the St. Joseph Grade School and Butte Central High School. His wife, the former Lucille Thorson, was born in Anaconda and the couple reside at 907 Nevada. "Shanty" is the proud father of three fine sons: Jack, who is a sophomore at MSU; Dennis, who is a senior at Butte High; and Roger, who is in the fifth grade at his father's old grade school.

We are lucky to have men of his caliber to serve us, so please remember our good fortune the next time one of you "jerks" start throwing cigarette ashes and scrap paper on the floor.

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Women's News



MIAWS Convention

The Montana Intercollegiate Association of Women Students held its annual convention on February 12-13 on the campus of Montana State College, Bozeman. The theme of the convention was, "College Women—Static or Dynamic?"

Elected to state office for 1965-66 are Virginia Speck, president, MSC; Sharon Stuver, vice president, Rocky Mountain College; Joanne Luebbe, treasurer, MSC; and Kathy Verona, corresponding secretary, Montana School of Mines. On the executive board for the ensuing year are Alice Lund, MSU; Bonnie Freund, Eastern Montana College; Rena Richards, Montana School of Mines; and Margaret Ore, Northern Montana College. The 1966 convention will be held on the Montana State University campus, Missoula.

The events during the convention included talks by Carol Griffith, state AWS president, guest speakers, workshops, revising of the MIAWS Constitution, a luncheon Saturday and an election and installation of new state officers. The folk singing group—Peter, Paul and Mary, were an added attraction in Bozeman that week-end.

Attending the convention from MSM were Kathy Verona, AWS president, and past member of the state executive board; Fran Ferris, AWS vice-president; Sheila Dorgan, secretary-treasurer; Rena Richards, AWS delegate; Patty Dunks, and Mary Jean Ungaretti. Mrs. Louise McBride, women's advisor, accompanied the coeds.

BOSTON (UPI)—An estimated 17,000 fans broke down the doors at Boston Garden in 1928 to give the Boston Bruins of the National Hockey League their largest home crowd.

GENERAL STUDENTS CLUB

The General Students Club held their regularly scheduled meeting February 12 in the lounge of the Student Union Building. President Chuck Starin brought the meeting to order. Plans for a party at the Longfellow Recreation Center were discussed. The club decided to have a Roaring Twenties Party, which will be held on Saturday, March 6. The party will begin at 9:00 p. m. and will be preceded by a dance at the school. The cost of the dance is \$5.00 a couple, and no one will be admitted without a date. Reservations for the party may be made by contacting Chuck Starin or Will McLaughlin. The party will be limited to fifty couples.

Chuck appointed the following students to serve as chairmen on committees: cleanup, Mick Hanley; publicity, Jane McCarthy; and decorations, Carol Wold.

RALEIGH, N. C., BIBLICAL RECORD-ER: Living on a budget is the same as living beyond your means except you have a record of it.

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Fifty Make Honor Roll

Fifty students worked their way to honor roll status at the Mines during the Fall Semester. In order to receive this honor, one must carry a minimum of twelve credits and attain a grade-point index of 3.25.

The average of classes represented on the honor roll is as follows: 5 seniors with the average of 3.45; 4 juniors, 3.44; 5 sophomore engineering, 3.50; 16 sophomore general, 3.61; 6 freshman engineering, 3.56; and 14 freshman general, 3.57.

The following tabulation gives the name, hometown, class, number of credits, number of grade points and each student's grade-point index for last semester.

Name	Home	Class	Credits	Points	Index
Colenso, Stanley W.	Butte, Montana	Fr. Gen	16	64	4.00
Dockins, Ruth M.	Butte, Montana	Fr. Gen.	16	64	4.00
Hockaday, Anita I.	Butte, Montana	Soph. Gen.	13	52	4.00
Wold, Carol W.	Butte, Montana	Fre. eGn.	17	68	4.00
Domitrovich, John L.	Anaconda, Montana	Fr. eGn.	17	67	3.94
Dunford, Gary J.	Butte, Montana	Soph. Gen.	19	74	3.89
Kargacin, Gary J.	Anaconda, Montana	Fr. Eng.	19	74	3.89
Goldberg, William C.	Butte, Montana	Soph. Eng.	17	66	3.88
Tonkovich, David R.	Anaconda, Montana	Soph. Gen.	16	62	3.88
Simonich, Edward L.	Butte, Montana	Senior	22	84	3.82
McLaughlin, Wm. C.	Butte, Montana	Soph. Gen.	14	53	3.79
Giacomino, John J.	Walkerville, Montana	Soph. Gen.	18	67	3.72
Platt, Diane M.	Butte, Montana	Soph. Gen.	20	74	3.70
Hurlburt, Ellen C.	Butte, Montana	Soph. eGn.	16	59	3.69
Angove, Terrence J.	Butte, Montana	Fr. Eng.	19	70	3.68
Sheehan, Joseph P.	Butte, Montana	Soph. Gen.	17	62	3.65
Fleming, Jerrell P.	Anaconda, Montana	Soph. Gen.	19	68	3.58
Schomburg, Robert R.	Butte, Montana	Fr. Eng.	19	68	3.58
O'Neil, Linda Ann.	Butte, Montana	Fr. Gen.	14	50	3.57
Burke, Marcella M.	Butte, Montana	Fr. Gen.	16	57	3.56
Smith, Jonathan B.	Butte, Montana	Soph. Gen.	18	64	3.56
Gow, John L.	Butte, Montana	Junior	21	74	3.52
Seidel, Bobby R.	Huntley, Montana	Soph. Eng.	21	74	3.52
Daily, William W.	Butte, Montana	Soph. Eng.	12	42	3.50
Taylor, Kent M.	Kalispell, Montana	Junior	22	77	3.50
Evans, John G.	Fremont, California	Senior	23	80	3.48
Schwartzberger, Robert A.	Butte, Montana	Fr. eGn.	21	73	3.48
Hanley, John M.	Butte, Montana	Soph. Eng.	15	52	3.47
Bauer, Walter S.	Butte, Montana	Soph. Eng.	13	45	3.46
Beamer, Timothy W.	Butte, Montana	Fr. Gen.	13	45	3.46
Roberts, Richard W.	Anchorage, Alaska	Senior	18	62	3.44
Donegan, Charles E.	Melrose, Montana	Junior	16	55	3.44
Schwartzberger, Gary	Butte, Montana	Soph. Gen.	16	55	3.44
Knudsen, Harvey P.	Great Falls, Montana	Fr. Eng.	19	65	3.42
Thurston, William E.	Butte, Montana	Fr. Eng.	19	65	3.42
DeLater, James A.	Camarillo, California	Fr. Gen.	15	51	3.40
Koskimaki, David C.	Butte, Montana	Soph. Eng.	21	71	3.38
O'Mara, Carolyn J.	Butte, Montana	Fr. Gen.	16	54	3.38
Koskimaki, Francis P.	Butte, Montana	Fr. Eng.	19	64	3.37
Matthews, Charlotte M.	Butte, Montana	Soph. Gen.	15	50	3.33
Beers, Robert C.	Chicago, Illinois	Junior	19	63	3.32
Hebert, Terry G.	Butte, Montana	Soph. Gen.	16	53	3.31
Wright, Wilma R.	Butte, Montana	Fr. Gen.	16	53	3.31
Boundy, Judith K.	Butte, Montana	Fr. Gen.	20	66	3.30
Guidi, Edith M.	Butte, Montana	Soph. Gen.	17	56	3.29
Thereault, Vivienne A.	Walkerville, Montana	Fr. Gen.	17	56	3.29
Williams, Billy M.	Butte, Montana	Soph. Eng.	17	56	3.29
Weaver, Jack Lee	Trident, Montana	Senior	24	79	3.29
Dirkson, Albert T.	Butte, Montana	Fr. Gen.	14	46	3.29
Toivonen, Robert W.	Butte, Montana	Senior	20	65	3.25

NEWMAN CLUB CONVENTION



The Winter Newman Providence Executive Convention was held on the Montana School of Mines campus, February 12, 13, and 14. The purpose of the convention was to amend the Province Constitution and make plans for the annual Rocky Mountain Province Convention to be held on the Western Montana College campus in November of '65.

Students at the convention represented six Idaho colleges and universities, and nine Montana colleges and universities. Officers are from both states. They are Don Skillested, MSC, chairman; Joy Esser, University of Idaho, extension vice-chairman; Frank Frantz, Boise Junior College, Internal Affairs vice-chairman; Marge Gardner, MSM, External Affairs vice-chairman; Janice Witsh, MSC, Financial Affairs vice-chairman; and Sharon Black, Northern Montana College, secretary.

The Newman members were split into four groups for discussion groups—organization, internal affairs, external affairs, and extension. These various committees discussed such problems as dues, high school orientation and membership drives. Other activities during the convention were a movie, "Catholics on Campus;" and two talks were given by Dr. Vern Dusenberry, and Father James Flynn.

One of the highlights of the convention was the celebration of the first Mass to be presented on the MSM campus. Father James Ferguson, Rocky Mountain Province Chaplain, said the Mass at 11:00 a. m. on Saturday and Sunday.

The Montana School of Mines Newman Club members and Butte Business College girls cooked the meals for the out-of-town Newmanites.

BUREAU'S DILEMA

The Montana Bureau of Mines and Geology has been made aware of a misunderstanding regarding the forthcoming publication "Ground-Water Resources Along Cedar Creek Anticline in Eastern Montana." The report contains the technical analysis of the ground-water situation in the Cedar Creek anticline area, and was prepared under the existing cooperative ground-water study program of the Montana Bureau of Mines and Geology and the U. S. Geological Survey.

The delay in publication of this important report is due, in part, to the state system of contracting all state-report printing to one commercial printer and the resulting overload at this particular time of priority biennial reports of state agencies; and, in part, to the necessity of obtaining special type for mathematical symbols, subscripts, and superscripts used in the scientific hydrologic formulas of this report. Release of the printed report is anticipated within a few weeks.

Only one copy of the report is presently available and this is in manuscript form. This copy, however, can be consulted at the office of the District Geologist, Ground-Water Branch, Water Resources Division, U. S. Geologic Survey, P. O. Box 1818, Billings. This copy is on "open file" and cannot be removed from the Survey office. Public distribution of this report must await its release by the printer who holds the state contract for printing Bureau publications.

The Montana Bureau of Mines and Geology will be glad to send a representative to discuss this report at any meeting desired by the people of southeastern Montana, after release of the report by the printers.

A sweet young thing went into a drug store: "Have you any Lifebuoy?"

"Set the pace, lady," said the clerk, "just set the pace."

BUREAU ISSUES GARNET MOUNTAIN REPORT

The Montana Bureau of Mines and Geology has published as Bulletin 43 a report entitled "Geology of the Garnet Mountain Quadrangle, Gallatin County, Montana." Authors are Dr. William J. McMannis and Dr. Robert A. Chadwick, Department of Earth Sciences, Montana State College, Bozeman. The report consists of 47 pages of text, a geologic map, and other illustrations.

The area described in the report lies south of Bozeman and includes Gallatin Canyon and part of the Gallatin Range, somewhat more than 200 square miles altogether. The topography is generally rugged, and some parts are almost inaccessible.

Paleozoic and Mesozoic sedimentary rocks about 4,500 feet thick overlie complexly deformed Precambrian metamorphic rocks and are overlain by probably Eocene detrital material and volcanic flows and breccias. The volcanic material modified the earlier topography and diverted the ancient Gallatin River to its present position. Thickness of the volcanic sequence is estimated as 4,000 feet, and it was probably much greater originally. Stocks, sills, and dikes emplaced at relatively shallow depth cut all rocks as old as the lower part of the volcanic sequence.

At least four major faults, probably five, produced appreciable displacement of crustal blocks. Trends are northwest and northeast on the major faults, but some minor faults trend in various directions. Movement may have begun in Late Cretaceous time and continued sporadically until early Eocene time. Some southeastward tilting of the area may postdate the extrusion of the volcanic sequence.

Mineral deposits of economic interest include the Thumper Lode mica mine, the Karst anthophyllite asbestos vein and other asbestos veins, and some sparse chalcocite and other copper minerals. The copper deposits have been prospected but no ore has been mined.

Copies of Bulletin 43, Geology of the Garnet Mountain Quadrangle, Gallatin County, Montana, by W. J. McMannis and R. A. Chadwick, may be obtained free of charge by writing or visiting the Montana Bureau of Mines and Geology, Room 203-B Main Hall, Montana School of Mines, Butte. Owing to publication problems, Bulletin 42, which should have preceded this report, will not be available until later.

Have You Heard?

Fran Ferris was wondering where milk sold in cartons comes from. Can anyone set her straight?

Rumor has it that Sandi Salovich and Russ Bills were engaged in high finance down at the Rumpus Room the other night. What was this all about?

There was quite an overflow at Horgan's a certain Tuesday not too long ago. Those finals must have really been tough!

Carol Melvin has a habit of sitting in the strangest places. Was it worth the quarter, Carol?

It appears that the coeds were a little slow in informing the recently enrolled girls of The Great SUB Pastime. As a result, the shooting was great for a couple of days. Thanks, girls!

Say, Dale Scholz, what were you doing sitting in the front seat of a car with three girls the other night? What a hustler!

A certain pinochle player regularly seen in the SUB has a terrible habit of driving the coeds away from anywhere near his table with his fascinating grasp of descriptive expletives. Watch it, Frank!

One night not long ago, Will McLaughlin gave quite a dissertation for the entertainment of the bartender and crowd at the U & I. What was the name of it again, Will?

Those 4.0's sure make it tough on the rest of us!

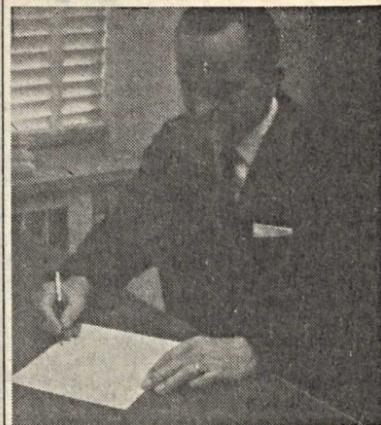
It has been said that you were seen walking home from the It Club the other night, Marcella. Is this true?

Say, Claudia, when are you going to give up trying to play that uke? You're driving everyone crazy!

A few of the male students on campus may soon be hearing wedding bells. Listeners are Rod Ylitalo, Roy Wilkes, Don Podobnik, Cam MacFarlane, Pete Norbeck and Jocko Evans.

There is a new name for an old organization on campus—"The Tunnel Peekers." Newly elected officers are president, Jack W.; vice president, Jim V.; and anyone who thinks he can handle the office of secretary may apply at the president's office.

An Interview With Pan Am



by Ernest Bond

Mr. Floyd Krebill, Engineering Group Supervisor of the Pan American Petroleum Corp., was on campus February 10, interviewing students for summer work. He was also interviewing graduate students for permanent positions. Pan American's headquarters is in Tulsa, Oklahoma. Pan American is the sixth ranking oil and gas producer in the nation. The airline has production in 17 states with operating areas extending into 13 other states. Its largest production volume comes from Texas. Pan American is the largest producer in Wyoming and Nebraska, and is among the top three or four in Texas, New Mexico, Louisiana and Oklahoma. Pan American owns or has part interest in 46 natural gasoline and cycling plants and operates 26 of these plants.

In an interview, Mr. Krebill had the following to say:

Q. What qualities do you look for in the graduating student?

A. Personality, maturity, character; we try to analyze his total personal make-up as well as possible, in the span of a half hour. By maturity is meant that the student should know what he wants to do. In personality and character, the student should be able to communicate and show ability to get along with other people.

Q. How do grades count?

A. Of course, grades are important. But we look for the well-rounded individual who is interested enough in his field and school to do his best to get good grades and participate in outside activities.

Q. Are questions on salaries and fringe benefits at the top of the list?

A. No, in a recent survey, it was found that questions ranging from most important to least important appeared as follows: Opportunity, Responsibility, Job Satisfaction and Remuneration.

Q. Are there enough graduates in petroleum engineering this year?

A. Petroleum engineers are hard to find this year.

Q. How do our graduates compare with other larger colleges?

A. Their quality is comparable.

Q. And for the last question, what type of work are you offering to the juniors as summer employment?

A. The work we offer is on roustabout crews, maintaining and repairing equipment in our producing fields.

FRATERNITY NEWS

Theta Tau Fraternity

At its regular business meeting on February 17, the Theta Tau Fraternity elected officers for the second semester. They are regent, "Spike" Donegan; vice-regent, Bill Robinson; scribe, Dave Duncan; treasurer, Carl Swanson; corresponding secretary, John Koger; marshal, Mike Lewis; inner guard, Mike Arne; and outer guard, Joe Bates.

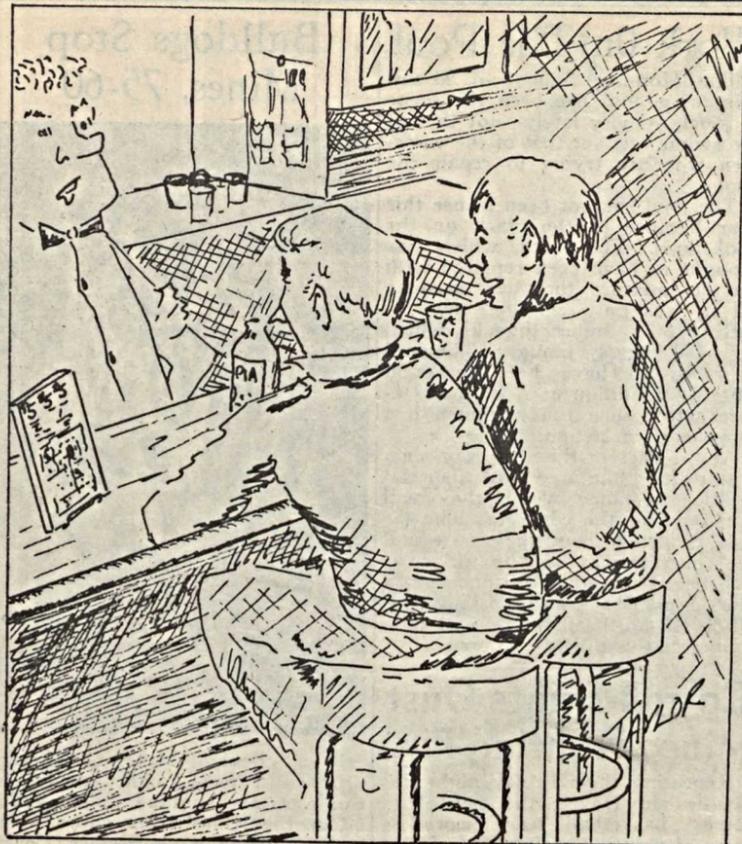
Plans were made for an Engineer's Ball during Engineering Week. The Fraternity of Engineers promises to have slow music for the occasion. Heed—all decrepid students.

Sigma Rho Fraternity

The Sigma Rho Fraternity elected officers for the second semester at a meeting on February 11. Those elected were Russ Bills, archon; Jim Jenks, vice-archon; Joe Kandle, secretary; Jim Rose, treasurer; Pete Norbeck, sergeant-at-arms; and Al Chiamulera, scribe.

Tom: "In some parts of the world you can buy a wife with a hundred dollars."

Jerry: "Not interested—I'm looking for a wife with a million dollars!"



WHADDA YA MEAN, "ITS ABOUT TIME FOR THE BAR TO BUY A DRNK"? WASN'T YOU GUYS HERE LAST WEEK

WESLEY CLUB NEWS

The Montana Methodist Student Movement Convention was held February 12-14 at the Christ Church in Great Falls, Montana. The speakers included James Jones from Illinois, who spoke on the theme of the convention, "Resolved to Be Involved." Those attending from the Montana School of Mines Wesley Club were Carole Fanning, Henry Hollein, and Charlotte Matthews.

On the agenda of club events are Alfreda Valdes, recipient of the Montana Methodist Student Movement Scholarship, who will speak on February 22, and an eight-week program of a discussion of the book **Beliefs That Count**, which is about the doctrines and beliefs of the Methodist Church. Discussion will begin in March.

Meetings are usually open and are held at 2900 St. Ann's Street at 6:00 p. m. Dinner is served. Anyone needing transportation should contact Charlotte Matthews at 792-0691.

Mt. Kennedy, a 13,900-foot giant, rises just east of the Alaskan border in the St. Elias Mountains, highest range in Canada.

The truth is that most, if not all, politicians are frightened of the Press and most political journalists despise a good many politicians.

—Britain's Lord Poole

JOHANNESBURG — Even in the modern state of South Africa, bankers say, more than \$22 million in personal savings is hidden in homes.

WASHINGTON—The first piggyback railroad loads were circus wagons, which were carried on flatcars as far gack as the 1830's.

The Navy bathyscaphe Trieste has an arm, 10 feet long, with which it can pick quarter-ton objects off the ocean floor.

Freeport Sulphur Co. Interviewed

by Ernest Bond

On February 17, Mr. A. P. "Fritz" Jelley, Assistant Manager, Industrial and Personnel Divisions, Freeport Sulphur Co. of New Orleans, Louisiana, was the first representative of this company on MSM's campus in eight years. There are four divisions that make up Freeport sulphur: these are the sulphur division; the oil division, which is primarily in Louisiana but has extensive oil prospects in Eastern Central Montana; the kaolin division, mainly in Georgia; and the potash division, which is mainly in New Mexico.

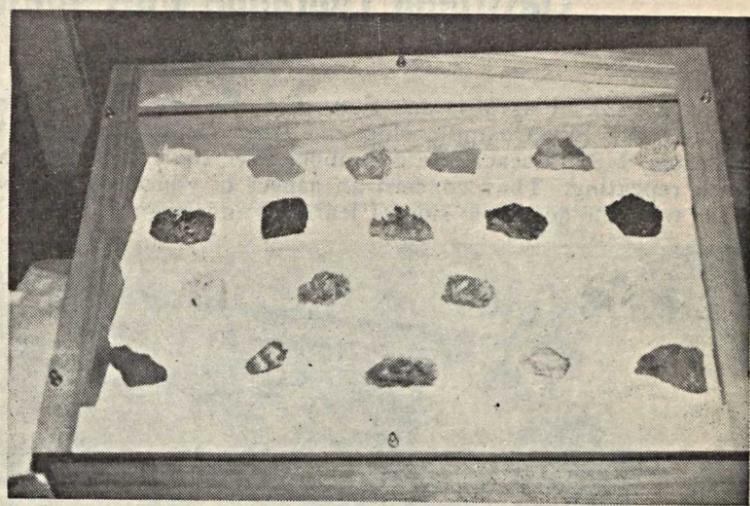
Mr. Jelley has this to say about student applicants: "I look for enthusiasm, perseverance, integrity; the well rounded student. If all the student has done while he has been in school is work to get grades and has done nothing else, he is probably not well rounded. A student should have other interests such as athletics or student government, student chapters, the Circle K (Kiwanis) or the YMCA something to show that he can get along with people. He should have a healthy curiosity with an open mind to go with it. He should be interested enough to be neat and clean. If the student has a lab period, he does not have to wear a suit, but neatness and cleanliness are an important part of the impression the interviewer receives. Another important thing is if the student can display basic understanding on how his courses all work together to round out his education.



Jelley of Freeport Sulphur

"The great weakness that I have found is in communication and report writing. In any part of management the man must be able to communicate his ideas both to his superiors and to those people that he may be supervising. His reports cannot leave room for doubts as to what he meant to record. If this question of salary is brought up too soon it will antagonize the recruiter. Another question that comes up once in a while is 'How long does it take to be a management man?' This shows immaturity. There are four areas of management: production, personnel, financial, and sales. The technical graduates we hire go into production management. They start at the bottom of the department and work up as they become qualified."

Bureau Sends Mineral Cases To High Schools



MINERAL CASES BEING SENT TO MONTANA HIGH SCHOOLS

by Doreen Shea

The Montana Bureau of Mines and Geology is currently preparing 50 display cases of Montana minerals to send to high schools throughout the state. The project was initiated by the Bureau as a means of increasing the incentive of science students to enter the fields of geology and mineralogy, and also to promote the School of Mines as an institute of higher learning.

Originally proposed by Don Lawson, laboratory technician for the Bureau, the high school project has been under the direct supervision of Uno M. Sahinen, Associate Director of the Bureau. Mr. Sahinen devoted a considerable amount of time and attention to the collection and obtained the necessary funds to set it in motion.

The Bureau has invited high schools throughout the state to take part in this endeavor, and at present 103 schools have requested that displays be sent them. In 1964, adequate funds were appropriated to assemble 50 cases. The others will be prepared as funds become available.

Each case contains 28 minerals and rocks representative of Montana. The specimens to be used are approximately 2 x 3 inches and will set on four shelves in the cases. A list of the minerals to be used follows:

- | | |
|---------------|-------------|
| Chalcocite | Phosphate |
| Chalcopyrite | Talc |
| Bornite | Vermiculite |
| Galena | Calcite |
| Sphalerite | Fluorite |
| Rhodochrosite | Barite |
| Magnetite | Gypsum |
| Hematite | Sandstone |
| Pyrite | Shale |
| Chromite | Limestone |
| Quartz | Schist |
| Coal | Gneiss |
| Mica | Granite |

Walt Boehler, school carpenter, has constructed the first 50 cases.

High Schools in the following Montana towns and cities will be recipients of the first 50 cases:

- | | |
|--------------|---------------|
| Great Falls | Gardiner |
| Roberts | Cut Bank |
| Belfry | Darby |
| Edgar | Baker |
| Absarokee | Frenchtown |
| Hogeland | Dodson |
| Willow Creek | Rudyard |
| Red Lodge | Victor |
| Three Forks | Joplin |
| Phillipsburg | Simms |
| Ryegate | Rapelje |
| Richey | St. Regis |
| Ekalaka | Glasgow |
| Scobey | Peerless |
| Boulder | Whitewater |
| Arlee | Wolf Point |
| Bozeman | Roundup |
| Moccasin | Judith Gap |
| Sheridan | White Sulphur |
| Whitefish | Spring |
| Fort Benton | Augusta |
| Harlem | Helena |
| Miles City | Alberton |
| Ennis | Bainville |
| Livingston | Wibaux |
| Hobson | |

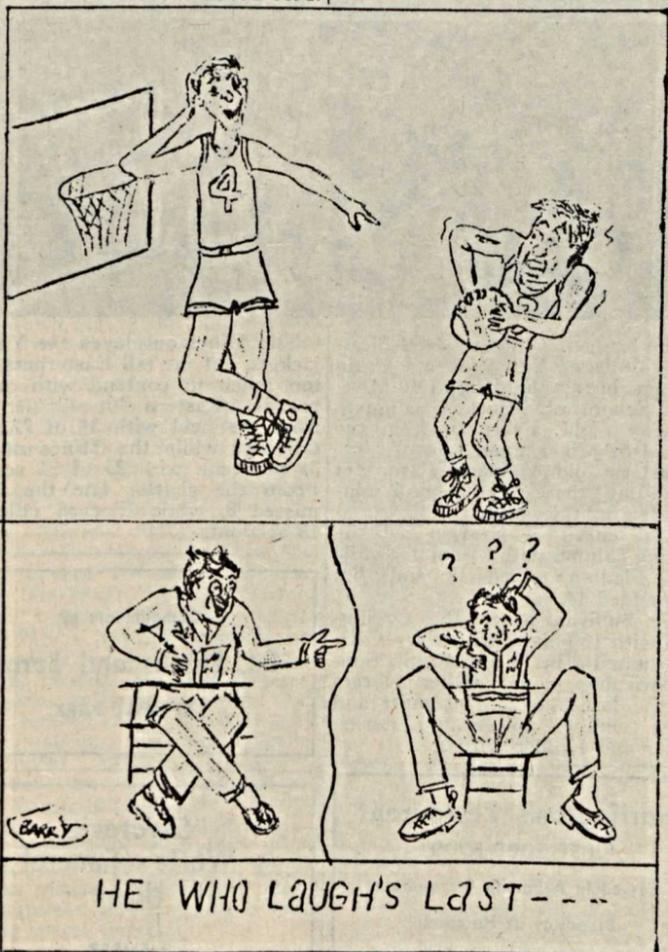
Easter Island in the South Pacific has preserved a venerable culture shut off by a million square miles of empty ocean.

There are 33 joints in the human foot.

White in a color-television picture is 50 percent green, 30 percent red, and 11 percent blue.

There is an estimated 7,000 airports in the U. S.

Last year 6.5 million tourists visited France.



HE WHO LAUGH'S LAST ---

WASHINGTON — Most recipients of federal-state aid to the disabled are between 50 and 65. The number receiving this form of public assistance now is 500,000.

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Classroom Education Plus These Qualities

by Al Dirksen

At a banquet at Montana State College honoring the Bobcats and Coach Jim Sweeney for their Big Sky Championship and their victory in the NCAA Camelia Bowl at Sacramento, California, MSM's ceach, Ed Simonich, gave the main address and in it made some remarks worth repeating. They concern an aspect of education overlooked by some who concern themselves with the academic side of learning and largely ignore others.



From left to right: MSC Athletic Director, Gene Bourdet; MSC President Johnson; Governor Babcock; MSC Head Football Coach Sweeney; MSM'S own 'Big Ed'

Here are some excerpts from Coach Simonich's speech:

"Every man who can, should play football or one of the other rugged sports that test will and body against body. He'll learn to work with a group. He'll learn to discipline himself. He'll learn to pick himself up off the seat of his pants after he's been knocked down. He'll learn the priceless asset—competitive desire.

One of the advantages of the coaching profession is the association and friendships that we are privileged to enjoy. The men that suffer through the joy and heart-break of a schedule obtain a relationship with the members of the squad not realized by any other individual or influence in the lives of these young men.

A coach is fully as much a teacher as any teacher in a classroom. It is true that their classrooms do not have four walls; their laboratories do not have test tubes nor scientific equipment. Their examinations come every Saturday of the season before thousands of people. These are noisy tests, usually exciting, sometimes happy, oftimes heart-breaking. These young men are in a tough course, leading not to specialization, but to a richer experience in living, necessary in the development of the whole man.

Some years ago while visiting the West Point Academy, I saw above the main entrance to the gymnasium carved, these words by the late General McArthur:

"Upon the Fields of Friendly Strife are Sown The Seeds That Upon Other Fields on Other Days Will Bear the Fruits of Victory."

Mary's mother, knowing the kindergarten class was working on courtesy and good manners, asked her little girl what she had learned that day.

Mary answered primly: "When you're seduced, you shake hands."

Notice in a milk depot: "We are a little short of milk just now . . . some of our best cows are out having a bull session."

"What would I have to give you for just one little kiss?"
"Chloroform."

"Fields of friendly strife are any fields where young men may learn fundamentals which will enable them to give a good account of themselves in friendly competition, such as football, basketball, baseball, track, tennis or wrestling. Seeds are sown with chalk talks and instructions ion the practice field. One learns the fundamentals of a sport, as well as self-improvement in it. To implant these seeds, coaches will dwell on how important it is to be thinking in athletic competition all the time. One coach may talk to a player about how he must have courage to play the game. Some of these qualities are intelligence, self-reliance, confidence, intense fire of nervous energy, unselfish spirit of sacrafice, fine muscular coordination, clean living and making fair play an obsession. All these and other seeds are planted by coaches and unconsciously accepted by an athlete to become a better ball player and a better man.

Real success will come to you after graduation. It is then that these seeds will sprout and blossom, bringing success in the athlete's field of endeavor—whether it be as a coach, a teacher, an engineer, a doctor or a lawyer. This will be one's "Fruit of Victory."

Intramural Basketball

Intramurals are back in full swing after the two-week lay-off following the semester break. Results of recent round-ball games are as follows: Hoochers over Tau-5, 48-38; Rho-2 over the Ballbreakers, Tapa-kegabrew over Flip Tops by 71-32; G.F.O.'s over Rho-3 by 52-46, and Tau-4 over Rho-2 by 57-33.

Many of the intramural games are being won by forfeits. Team members are urged to observe the bulletin board in the gym lobby for the schedule of future intramural hoop contests.

OREDIGGER SQUAD ROUTED BY NORTHERN

Hardly able to find the rim in the first half of play, the Mines basketball team went scoreless the first eight minutes of play against the Northern Montana Lites. Finally connecting, the Mines five found themselves far behind at halftime 43-15. Making a comeback on the hard court for the remaining twenty minutes of play, the Orediggers quickly found the range, scoring 49 second-half points to 47 points for their opponent. High scoring honors for the Mines were shared by John Sutey and Gary Carlson, freshmen engineers. Each scored 12 points. Freshman Jim Liefer, sophomore Gary Briney and senior Pat Marx each accounted for 8 markers. Final score of the Friday night encounter was Northern 90, Mines 63.

"If"

If you think you are beaten, you are;

If you think you dare not, you don't;

If you like to win, but you think you can't,

It's almost a cinch you won't.

If you think you'll lose, you're lost;

For out in this world we find Success begins with the fellow's will;

It's all in the state of mind.

If you think you're outclassed, you are;

You've got to think high to rise. You've got to be sure of yourself before

You can ever win a prize.

Life's battles don't always go To the stronger or faster man; But soon or late the man that wins Is the man who thinks he can.

—Author Unknown

Work On The Pool

The Montana School of Mines' swimming pool has been the scene of much activity lately—not that of the swimmers, but that of the workmen who are trying to repair the pool.

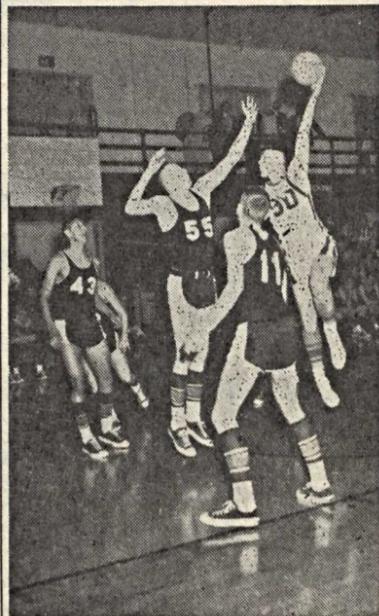
The pool has not been in use this year because of the crack on the pool floor. The crack, which was thought to have been repaired with the tar mixture that was used to fill it, was only enlarged and re-activated by the earthquake which occurred in early January. The pool appeared to have been in good working condition until Mother Nature acted; then the workmen had to go back in action.

At the present time, the workmen are awaiting the arrival of a special plastic substance which they will use to cover the concrete. The tar was removed from the crack and the concrete was used to fill it. It is believed that this will once again put the pool back into working condition, if Mother Nature will only cooperate this time.

Carroll Saints Oust Mines Fighting Five

Repeating their Friday night difficulties in Havre, the School of Mines' basketball team scored a mere 24 points, the first half of play against Carroll College in Helena on Saturday evening, February 13. Holding true to consistency, the Orediggers took the hardwood floor the second half and pushed 39 points through the nets. For all the determination in the final twentyminutes of play, the Miners were unable to overcome the Saints, going down to an 84-63 defeat. Freshman center, 6'4" Gary Carlson, led the Orediggers in the scoring department with 13 points. He was closely followed by freshman Ed Nordquist with 12, sophomore Joe Sullivan with 11 and freshman John Sutey with 10.

Bulldogs Stop Mines, 75-60



The School of Mines Orediggers dropped a hard-fought contest to the Western Montana Bulldogs, 75-60, on the Mines' home court. After getting off to a slow start, Coach Ed Simonich's five closed the first half of play only six points down, 34-28. In the last twenty minutes, Western increased its lead by 15 points.

High scorer for the Mines was Ed Norquist with 15 points. Close behind was Gary Carlson and Joe Sullivan, each with 10 points. The Orediggers suffered a large loss when ace playmaker, Jim Liefer, a 5'7" guard from St. John, Washington, sustained an injury to his right knee during the second half. The Orediggers will be without Jim's services for the remainder of the season.

EASTERN UPSETS MINES



The league-leading Eastern Montana College Yellowjackets from Billings beat a hard-fighting Montana School of Mines Orediggers Monday night, February 8, in the School of Mines gym.

Eastern didn't manage to get ahead until there were about 7 minutes left in the game.

Bob Jensen of Eastern led the scoring column with 24 points, while Bob Fladmo tallied 17 and Jim Soft added 14.

Joe Sullivan paced the Orediggers with 16 points, with Gary Carlson dumping in 14 and Frank Sopko swishing in 12. Other scorers for the Mines were Nordquist and Sutey with 6 apiece and Leritz, Liefer and Kohler with 2.

The Mines outplayed the Yellowjackets, but the tall Easterners were too much to contend with on the boards. Eastern hit 42 per cent from the field with 31 of 77 shots tallying; while the Mines notched 35 per cent, with 25 of 71 scoring. From the charity line the Mines missed 8, while Eastern failed on 12 accounts.

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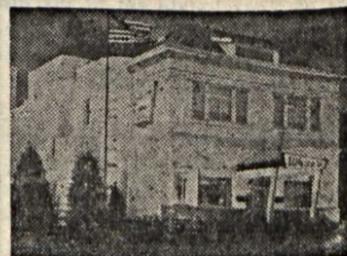
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