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Associated Students of the Montana School of Mines

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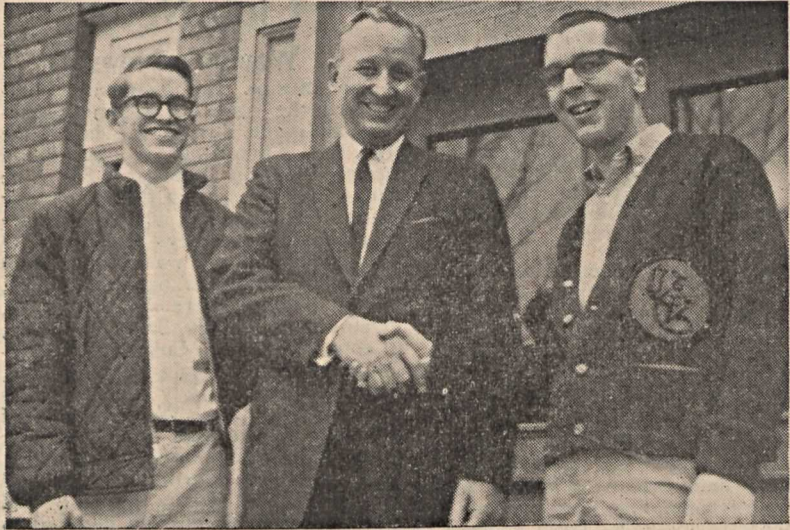
Montana School of Mines AMPLIFIER

Published by the Associated Students of the Montana School of Mines

Vol. X, No. 67

BUTTE, MONTANA

Monday, March 22, 1965



Cliff Kavanaugh and Kent Taylor with Mr. Beckstead

INTERVIEW WITH ASARCO

by Ernest Bond

Rex C. Beckstead, Dept. of Safety and Technical Employment, of the American Smelting and Refining Company, was on School of Mines campus recently. The picture above shows Mr. Beckstead with Kent Taylor and Clifford Kavanaugh, juniors, to whom ASARCO awarded \$750 scholarships.

Mr. Beckstead interviews at twenty colleges throughout the United States, and also visits some Canadian and Mexican colleges. ASARCO is a large organization with mining properties in Peru, Mexico, Canada, U. S. and Nicaragua. Mr. Beckstead commented at this point saying that as large as ASARCO is, "the largest number of students that we have hired in the last sixteen years has been from the Montana School of Mines."

On comparison of MSM to other technical colleges, he said: "Practical experience is one of the best teachers. The students from here have had experience in the mines of Butte, or they have had to work their way through school as best they can. These people know how to work. This is what makes them excellent production people. The mining and mineral industries are not 'soft job' industries."

Commenting on the academic system of MSM he said, "I like the fact that all the professors here are teaching classes, rather than out doing consulting work which takes up most of their productive time as happens at other larger colleges. This which leaves the teaching job to relatively inexperienced graduate students."

The American Smelting and Refining Company has its general offices at 120 Broadway, in New York City, New York. The company has smelters and refineries at Denver, Colorado; East Helena, Montana; El Paso, Texas, Hayden, Arizona; Tucson, Arizona; Selby, California; Tacoma, Washington; Amarillo, Texas; Corpus Christi, Texas; Baltimore, Maryland; Omaha, Nebraska; and Perth Amboy, New Jersey.

ASARCO's finished products include products of antimony, arsenic, bismuth, bronze, cadmium, copper, germanium, gold, high purity elements, indium, lead, molybdenum, nickel, platinum, selenium, silver, slag, sulfur, tellurium, thallium, zinc, asbestos fibre, aluminum, brass, magnesium, alkaline derusting salts, blackening compounds, buffing compounds, electroless plating processes, metal cleaners, metal strippers, plating brighteners, plating equipment, and specially chemicals for metal finishing.

MR. HARVEY SPEAKS TO SILVER BOW COUNTY HOSPITAL AUXILIARY

On March 5, Jack Harvey, a graduate of Montana School of Mines, spoke to the Silver Bow County Hospital Auxiliary. The topic of his speech was the new stadium being built by the MSM Alumni Association. Mr. Harvey told the women of the auxiliary why the stadium is being built and its future purposes. He also explained the work that was being done to complete the stadium and the cost of it.

SEMINARS HELD

Seminars have been held with several students giving a speech concerning a research project, which they have been assigned.

R. J. Murray, on March 2, gave his seminary on The Kramer Effect-Exoelectron Emission During the Mechanical Treatment of Metals. The Kramer Effect was discovered in 1949. When matter is abraded, electrons are emitted and can be detected by a Geiger-Muller counter. It was observed during the transformation of crystals, that electrons are also emitted. This effect has a great importance in corrosion and lubrication.

E. L. Bauer, on March 9, gave his seminar on The Segregation and Leaching - Precipitation - Flotation Process in the Extraction Metallurgy of Copper. The two processes contribute to the beneficiation of unmixed copper ores. The oxidized copper mineral are reduced to metallic copper and are then recovered by flotation with the sulphides. The reactions involved were explained and also the factors governing them.

R. W. Toivonen, on March 16, will give his seminar on The Swimming Pool Reactor. The swimming pool reactor, in which nuclear fuel elements are placed in contact with water, is used primarily to demonstrate the principles behind nuclear reactions. Water serves a triple function, that of coolant, that of a shield from nuclear radiation and that of moderator. The reactor is self-controlling and relatively safe. The swimming pool reactor is ideal as a training reactor.

Seminars for the balance of the month of March are to be given by M. Dexling on March 23, and by A. S. Brae on March 30. These discussions are held at 10:00 - 11:00 a. m. in Lecture Room 115 of the Met Building.

Library of Magmas and Amplifiers

For the convenience of the faculty and students, a library of **Magmas and Amplifiers** is going to be established in the Publications Room. Doc Jordan is assembling the material for the library. The library will contain all the previous issues of the **Amplifier** and the old **Magma** books. Anyone who would like access to this library can obtain permission from Mr. Simon, Mr. Stolz, or Jocko Evans.

HURLBUT HONORED WITH ADC AWARD



Hurlbut receives Colonists Award.

Ellen C. Hurlbut, a sophomore in the pre-professional course at Montana School of Mines, has been designated as this year's recipient of the Bannock Chapter, Daughters of American Colonists Award, according to Mrs. George P. Palmer. Miss Hurlbut was presented with the award at the Chapter's luncheon in the Finlen Hotel on March 6.

The Chapter annually presents an appropriate award to the highest-ranking student in American History in one of Montana's colleges.

Miss Hurlbut, 19, was graduated in the science course from Butte Public High School in 1963. While there, she was a member of the National Honor Society in her senior year and of Mu Alpha Theta in both her junior and senior years.

At Montana School of Mines she was a member of the Glee Club during her freshman year and is presently on the yearbook staff. She is also enrolled in a short course in speedwriting and typing at the Butte Business College.

Miss Hurlbut is a member of the Butte Wesley Foundation, the order of Rainbow for Girls and of

the Mountain View Methodist Church where she plays the piano for the junior high choir. She is a former member of the candy strippers at St. James-Community Hospital.

Mrs. Jackson Greenough, regent of the Bannock Chapter said, "Our constant concern with American History, its presentation, and its understanding has led us to make this annual award. We are delighted this year to give it to a student at Montana School of Mines as a demonstration of the high standards in historical study pursued at this college."

Professor W. C. Laity, Head of the Department of Humanities and Social Studies at Montana School of Mines, remarked, "This award by the Daughters of the American Colonists to one of our non-engineering students attests to the extent and calibre of the variety of academic training available at Montana School of Mines. We are truly happy for Miss Hurlbut in her receiving of this honor."

Miss Hurlbut lives with her father and her sisters, Anne and Elizabeth, at 218 South Crystal, Butte.

INTERVIEWS WITH GRADUATE STUDENTS

by Margie Gardner



CHUCK GALE

One of the most interesting and valuable areas of college study are those done by the graduate student. Presently at MSM we have 31 of these students, some of whom have graduated from the Mines, and those who have graduated from various other schools. Dan Rovig and Charles Gale are two of the students who graduated from MSM. Both have returned to this school to work on a graduate project.

Charles Gale

The Metallurgy Department has one especially hard-working graduate student, Charles Gale. Charles graduated from Butte High School in 1960. He then entered MSM in September of 1960 with a freshman honor scholarship. While at MSM, he also earned the Larry Dobel Scholarship, an advanced Honor Scholarship, and the Anaconda Company Undergraduate Scholarship. In his senior year, he was named to the **Who's Who Among College Students**. The organizations he was affiliated with are the AIME, ASM, Circle K and the Sigma Rho Fraternity. After graduating from MSM in June, 1964 with a Bachelor's in Metallurgy, he returned in September to begin his graduate work.

Gale is working now under a NASA Research Assistantship. The project is being conducted in Anaconda under a sub-contract between Astro Metals Corporation and MSM. The primary contract is between Astro Metals and the National Aeronautics and Space Administration. Gale was chosen from the Mines to work under this contract through a graduate research fellowship.

The title of his thesis is "The Electrolytic Production of Beryllium Powder." Beryllium powder will be produced by the electrolysis of a fused salt electrolyte in a cell utilizing a mercury cathode. A pilot-sized process circuit will be designed so that separation can be operated continuously. All processes and operations must be conducted in the absence of oxygen or water. This thesis will entail all equipment design, circuit production of beryllium powder.

Charles expects to finish his project no later than August, 1965.



BOB TOIVONEN

Dan Rovig

Dan Rovig, a graduate of Flathead County High School in Kalispell, first entered MSM in 1956. He spent the next four years working towards a B.S. in Mining Engineering, and in winning honors for himself and the school. While still an under-graduate he was a member of the ASM, the AIME, the Copper Guards and Sigma Rho. During his junior year he was secretary-treasurer of the student body, and vice-president during his senior year. Proving his versatility, he lettered four years in football, and was selected to **Who's Who Among College Students**. He was also recipient of the American Smelting and Refining Company Scholarship.

After graduating from MSM, Dan went to the U. of Pennsylvania for two terms in 1961 and '62 to do graduate work in Mining Engineering, where he held a research assistantship. He spent the next year and a half working for Zonolite Division of W. R. Grace and Company as an Ore Dressing Engineer. In the fall of 1963, he returned to the Mines, and is now working for his Master's Degree in Mineral Dressing. At the present time, he is proctor of the dorm.

Dan, a Research Fellow, is doing graduate work under the sponsorship of Professor Donald W. McGlashan. His thesis project pertains to the subject of the selective separations of copper, lead, and zinc minerals from massive sulfide ores. Resolution of a problem of this type arises from acquisition of data, and complete analysis of solids, noscent surfaces, fluid-solid interfaces, and fluid media. Therefore, this research project is composed of several studies which include analysis of mineral structures, theoretical fracture of minerals, interfacial chemistry, electrokinetic measurements and mechanisms of particulate separation.

Application of determined experimental and theoretical consideration is being applied to sulfide ore supplied by Heath Steele Mines Ltd., of New Castle, New Brunswick.

Dan expects to be through with his project this spring.



DAN ROVIG

Madison and Toivonen Receive Scholarships

Bill Madison and Bob Toivonen, seniors at MSM, recently received \$250 scholarships which are awarded annually by the Rotary Club. The students were presented with the awards at the Rotary luncheon on March 4, in the Finlen Hotel. Dean Adams, former dean of the Montana School of Mines, initiated this project as a means of showing the interest the Butte people have in students of the Mines. To qualify for this award, a student of the Mines need only be a resident of Butte. When choosing recipients for the award, grades are considered, and a need for scholarship is important.

COURAGE --- THE LOST QUALITY

After a few years of experience with adult life, say about 21 or 22, a person, if he thinks, discovers that he had acquired education and experience sufficient to rely on. He goes about life with comparative ease, probably content and happy. Then, with little time to consider, life as an adult is flung upon him in full force. Every little detail of his existence becomes his own responsibility. It is at this moment that man after man regresses back into his adolescence, seldom to ever again see the twilight of maturity. Why? The education and the experience are there to help him conquer the struggles ahead, but failure engulfs him in the blinding blackness of his fears. Fear is, without exception, man's ignorance of his own self. Ignorance, ironically enough, is learned. We all have a habit of teaching it to ourselves. Why? Because ignorance is bliss, is freedom from responsibility, and is cowardice most of all. Seriously question yourself to see if there is a reasonable explanation for being a coward. NO? Then explain to yourself why you are a coward.

Courage is honesty. Courage is decency. Courage is faith. Courage is intelligence in force. Courage is survival. Courage is the lost American trait. What happened to it? Many things, too many for a people immersed in revolutionary times—and an absolute need for it is everywhere evident. Courage is gone when young people, history's most virile dynamics, are afraid to voice their ideas and opinions. Courage is dead when everyone bands together in bland voids of nothing rather than independently step forth for what they know is right. Courage is a thing of antiquity when youth has given up its idealism. It is frustrated in agony when we back away from evil and its wrong-doers. When courage is gone, man denies the existence of a Supreme Being, because he is ashamed of himself and cannot tolerate Superiority. When courage does not exist, men willingly forfeit their right—their natural and guaranteed freedom of speech—their dignity—their very lives. Courage is the means by which to disagree. Courage is the necessary quality to correct a wrong. All of this leads to what may well be life's only hope. Dag Hammarskjold expressed it best when he wrote in his diary;

"Never, for the sake of peace and quiet, deny your own experience or convictions."

Letter To The Editor

Dear Editor:

We welcome this opportunity to give our stand on certain matters. We presented the hootenanny with a two-fold purpose, that of entertainment and that of informing the campus of our existence. We do not wish anyone to feel that we were recruiting members, since we pay no dues and carry no membership cards. However, we did wish to extend a courteous invitation to anyone interested in the study of the Bible to attend our meetings and judge for themselves.

We were a little dismayed when the first four scheduled acts from our school did not attend, which possibly let to some "overabundance of church-oriented music" (the very last half hour of a two-hour program). Because of the nature of our group, and not to mention the songs' lack of good taste, we did not believe that certain lyrics nor certain rather suggestive ditties, folk songs or not, should be presented, since this program was to stand as our testimony to the campus.

We do not believe that one's faith in God should be delegated to a certain appropriate time or to a small, segregated portion of his life. We attempt, rather, to put our faith into practice and to live daily, every moment, according to Biblical precepts. We also believe that our actions speak louder than our words; therefore, our conduct and our social functions must remain in line with our beliefs to be a true reflection of our faith.

Yours truly,
Intervarsity Christian Fellowship

AIME SPEAKER

Professor Horace E. Rose, of the University of London, was the speaker of the March 3 meeting of the AIME. Professor Rose spoke on "Research in Vibration Milling." Some of the points that he brought out in his talk concerned the factors affecting the power absorbed by a vibrating mill and the influence of the viscosity of the charge. He also told of the rate of grinding in a mill and the physical and chemical changes that take place during milling. Prof. Rose also explained the energy balance that is needed for a vibration mill.

Professor Rose is presently on the engineering faculty at the University of London King's College in London, England. He received his B.S. degree in Mechanical Engineering at the London institution. At the present time, Prof. Rose is on tour of the United States, giving lectures at the mining schools throughout the country.

Petroleum Field Trip

On Thursday, March 11, 15 junior and senior petroleum engineering students took a field trip to Helena, where they observed the proceedings of eight public hearings before the Montana Oil and Gas Conservation Commission. The hearings covered such subjects as the proposed delineation of certain areas as oil fields; redelineation of oil fields; requests to drill wells; and a request to change the methods of extracting oil from certain oil fields.

The hearings were held in the Governor's Reception Room of the Capitol Building. Professors Stolz and Mannon accompanied the students on the trip.

The students who attended the hearings were: Curt Peterson, Jack Weaver, Ed Simonich, Keith Tyner, Russ Bills, John Sergerich, Bill McFarlane, Wally Businius, Rod Yitalo, Mansoor Awan, Jocko Evans, Bill Madison, Joe Kandle, and Colin Taylor.

Degree In Geophysics Offered

The School of Mines is now offering a Bachelor of Science Degree in Geophysical Engineering. The degree is new to the school and has enrolled four junior students. The students working for the degree are: Bob Heaphy, Frank Wills, Pete Norbeck and Trig Forsythe.

Geophysics is concerned with the earth's crust, atmosphere and the oceans surrounding it and the products and materials found in them. A geophysical engineer applies the information he has learned in his four or five years of study to the discovery of valuable minerals, petroleum, natural gases, and water with the aid of electronic scientific instruments.

After a student decides that he wants to enter the field of geophysics, he is assigned to a counselor from the faculty of the Department of Physics. The curriculum contains technical electives so that the student may become acquainted with technical fields other than his own and so that he may study a course which is of special interest to him in connection with his chosen field. The curriculum also entails a four-year study of physics, mathematics and geology.

There are many jobs open to the geophysicist. He may find a job with the space program or find himself observing the earth's crust. Mining, unlike petroleum is wholly dependent on geophysics for the discovery of minerals.

Representatives from the Geophysical Services Incorporated have

COMPUTERS PLACE STUDENTS

Students! If you're a round peg looking for a round hole, Q E D Center Inc., Bronxville, N. Y., has a new electronic job sleuth that makes it possible. The center is the only one of its kind in the world. It scientifically programs the aptitudes, training, extra-curricular interests and even special preferences of job-seeking college seniors and graduate students. The data is then fed into computers which automatically match qualifications against job opportunities filed with the Center by companies all over the country.

In effect, the Center enables a student to expose his "Qualifying Employment Data" to hundreds of potential employers in a matter of seconds. Vice versa, companies can instantly scan hundreds of prospects faster than most of us can write our own names. According to Steven B. Karlen, president and founder of Q E D, many man-years of research, pre-programming, data collection and employer-college liaison have gone into perfecting the electronic job-sleuthing system.

More than just a method for matching students' academic background against job requirements, the registered data covers such qualifying information as special talents, salary range, work history, distinctions and honors, to list a few.

The computer also takes into consideration whether the student is married, single or "pinner." It can even lead the student to the right-sized company for him in the area of the country, or of the world he prefers.

"Q E D Center is not an employment agency," states Mr. Karlen, "since employers must still conduct interviews, testing and final hiring. But now, at last, the employers will know where to reach their best prospects."

The complete service is available to students for \$6, including forms, programming, data processing, analysis and forwarding of selections to potential employers. Companies then contact students in their usual manner.

The first large-scale pairings of students and jobs will be processed in January, and students have until December 31 to file their personal data. Students may obtain more information on Q E D and its activities through the college placement office through student agents, or by writing directly to Q E D Center, Box 147, Bronxville, New York 10708.

From The Desk of The Student Body President

by Bob Toivonen
36-22-36

Why are you reading this article? Is it because of its suggestive title, or is it because you are just plain curious? If you are a female, you are probably just curious. If you are a male—well, it's self-explanatory. Actually you have been misled, for the title represents the measurements of two yardsticks and a broken one. Seriously, the discussion following is a very important one, that of E-Days. One might ask himself, "Just what am I going to get out of E-Days? Foremost is the satisfaction one gets from sharing his own knowledge with others. It is very fascinating to observe the expressions of wonderment of an amazed listener as one carefully explains his project. Most of the visitors do not have the slightest notion of one's dissertation, but nevertheless will pay the strictest attention. These people are very impressed with the knowledge of our collegians.

Since E-Days requires much advance planning and work, everyone's contribution is appreciated. Posters must be printed. Various signs must be made. Projects must be set up. If everyone does a small share of the work, the success of this event will surely surpass the successful E-Days of the past. By the way, if you are still curious about the title, fret not, for it has served its purpose. You read this article, didn't you?

inspected the geophysical engineering curriculum at Montana School of Mines and have interviewed the students enrolled in this department for summer employment.

E-DAYS -- WHAT AND WHY

Engineering Days are being held on March 26 and 27 of this year. They are days traditionally set aside for an open house to show the public and the students alike what the Mines has to offer. At present the different departments are setting up experiments so that the people who visit can enter the labs and look at the things taught and learned in one of the world's most famous engineering schools.

In an interview, Professor Stolz said, "It was originally set up by The Anderson-Carlisle Society, a student chapter of the AIME, which is still the sponsoring group. Its purpose is to show to all what the Mines and Engineering has to offer. It is a function conceived of and initiated by, students under the direction of the faculty; but it is still a student function. All students contribute to the success of E-Days or at least all should. E-Days are the show case of the School and every student should display a sufficient interest in the promotion of the Mines and should do his share. In 1957, when E-Days came into being, they were held every year. Due to the fact that some underclassmen felt that the main function of E-Days is that of a holiday, it has to be held on a semi-annual basis." In closing his remarks, Mr. Stolz said that he felt that it was the responsibility of all of the students to make E-Day a success.

Carl Koskimaki, who is the chairman of E-Days activities, said that the open house would be held from 10:00 A. M. until 9:00 P. M. on Saturday and from 12:00 noon until 8:00 P. M. on Sunday. He said that the different departments would be in competition for prizes for the most original and expressive displays.

There will also be sky-diving exhibitions at 12:00 on Saturday and 1:00 on Sunday.

All in all, festivities promise to be very interesting and informative—on both days. MSM expects to receive two days of honor and praise given to a scientific school that deserves praise and attention.

POWER CONVENTION

On February 24th and 25th the Montana Power Company sponsored a business management clinic. The purpose of this clinic was to give the student an insight into the workings of a major company. Attending from the School of Mines were: Dr. Koch, Dan Rovig and Arill Orellana, graduate students in mineral dressing and mining, along with Jack Weaver and John Burk, seniors in petroleum engineering.

Principle speaker for the first session was J. E. Corette, President of the Montana Power Company. Many aspects of business and engineering were discussed during the session. One of the highlights of the first session was a tour of the Power Company's computer center. Lunch was served both days at the Finlen Hotel, along with dinner after the first session. Mr. Corette presented an interesting after-dinner talk on the difference of the power situation between Rumania and the United States. An interesting highlight of the second session was a board of directors meeting and a tour of the microwave and communication center.

This clinic is held annually for students from Montana State College and the Montana School of Mines.

Wesley News

The Wesley Club is planning a bowling party for April 10, at 7:00, at the Y.M.C.A. All are invited to attend.

Meetings are held at 2900 St. Ann's St., at 6:00 p. m.

Club News

Women's News

The Sigma Rho Fraternity challenged the coeds to a benefit basketball game during the half time of the Carroll-MSM basketball game held on February 26. The male team dressed in feminine array of frills and ruffles. The coeds wore green football jerseys and "cut-off" jeans. The game was played with the attempt of boys' basketball rules. Coed players were Joan Britton, Diane McElhenney, Sandy Salovich, Leona Harrison, Margarette Berryman, Mary Lou Rule, Carol Melvin, Marcella Burke, Judy Konda, Kathy Verona and Carol Wold. Coach of the coed team was Gene Albright, with Russ Bills as the Rho's coach. Referees were Carolyn Stuart and Bob Shogrin. Money was collected during the half-time and donated to the Heart Fund.

Plans are being made by the AWS for a Hootenanny and Grubby Dance, which will be held either in March or April. The very informal event will be held in the SUB. Students are asked to start preparing acts for the event.

Mineral Club

The Mineral Club recently held its regular meeting Wednesday, March 10. The main things discussed were a name change and a field trip. Among the other items discussed were an acquisition of a micrometer, a polarizer, a refraction index set, a centrifuge, maps and location sheets, sledge hammers and a rubber stamp.

Sigma Rho Fraternity

On March 4, the Sigma Rho Fraternity held its regular meeting at which the Rho-Tau co-sponsored Engineers' Ball was discussed.

The annual Initiation Dinner-Dance was held Saturday, March 6, at the Vegas Club. The guest speaker was Prof. Joseph Murray, who talked on the topic "General Semantics." Those initiated were Rod Yitalo, "Cam" MacFarlane, Henry McClernan, Cliff Kavanaugh, Joe Caddy, Sam Higinbotham, Colin Redden, Doug Meseroll and Al Chiamulera.

On February 20, the fraternity held a party in Walkerville. All seemed to enjoy themselves immensely.

The Old Timer



"Let me put it this way—if your car were a horse, it would have to be shot."



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McKEE PRINT

He Mops The Hops

by Doc Jordan

Have you ever wondered who drains the suds from the halls of the Montana School of Mines' Dorm after a friendly get-together? Who cleans up the familiar results of the freshman? Who took a little more than he could handle at one of these college tea parties? Who carts out the no-deposit-no-return bottles (soda pop, of course) before they can be discovered by the Gestapo? Well, if you have wondered, wonder no more. Be pleased to become familiar with John Thomas, better known around campus as "Jockie."

This patient and fatherly gentleman has been janitor in the Dorm for over eight years and during his term of service has witnessed just about every type of shenanigan possible. Although this fellow is getting up in years, he still takes care of his job in an excellent manner and from the way this cowboy views things, "Jockie" will still be on hand for many years to come.

Mr. Thomas was born and raised in Walkerville. One of his first jobs was delivering bakery products for the Royal Bakery, where he worked from 1924 until 1929. After the Depression, "Jockie" worked for Safeway Stores as a truck driver and later as a night foreman for over twenty years.

He resides at 1040 Zarelda, just south of his old city, with his wife, the former Mary Morgan. Mr. and Mrs. Thomas have two daughters and four grandchildren.

Although "Jockie" gave up fishing a while back because of his arthritis, he still enjoys working in his garden for recreation; and he and his wife frequently visit Whitehall, where they spend a great deal of their leisure time.

NEWMAN CLUB FEATURES PANEL

The Newman Club featured a panel discussion entitled "Sex on Campus" at its meeting on March 2. The six members of the panel spoke on various aspects of the subject, and a short discussion was held on each topic.

Bill Madison opened the panel by discussing his views on the current attitude of college students, which is popularly called the "playboy mentality." He commented on the fact that our attention is constantly focused on sex through all medias, and the result of this bears a direct reflection on our philosophies and attitudes.

John Engleking followed with his views on what a boy "expects from a girl." Sue Slainer spoke on what a "girl expects from a boy." The two gave brief descriptions of the man and woman they would and would not like to marry.

A brief review of the standards set up by the Church was then given by Sparky McGarry; and Annette Fraser gave her ideas on what a girl expects from marriage.

The final speaker of the evening, Marcelia Burke, led a discussion on proper sex education. She pointed out the fact that although sex is a subject most talked about and that most people consider themselves experts on. This subject itself, is one about which many people are ignorant. She feels there is a definite lack of proper sex education throughout the school system. The discussions disclosed one irrefutable fact: that men and women have different views on all phases of the topic.

The reason for the meeting was to find out the attitudes of the students on this campus regarding the subject of sex in terms of the tenets of the Church.



"JOCKIE" THOMAS

1965 EIT EXAMINATION

The 1965 Engineer-in-Training examination will be given at the School of Mines in Butte and at Montana State College in Bozeman on May 8, 1965. Applications for this examination must be received by the Board prior to March 15, 1965 and can be obtained from Professor Stolz or Professor Vine.

The examination is an eight-hour open-book examination and covers the following ten engineering subjects: Mathematics (in analytical and calculus), Chemistry, Statics, Thermodynamics, Fluid Mechanics, Physics, Dynamics, Electrical Theory, Mechanics of Materials (Strength), Economic Selection.

The test will be divided into a morning and afternoon session, with five engineering subjects in each session. The applicant will be required to answer six problems in each session with the questions selected from four of the five subjects. Three questions are given in each subject.

The examination is of the open-book type. However, candidates are not permitted to use personal notes or problem solutions, books containing sample professional engineer or EIT questions with solutions, or other books or publications of a similar nature. Standard texts or handbooks may be used. The candidate is cautioned, however, not to use such references to essentially copy out solutions to problems. If you find you need to do this, you probably have insufficient experience and judgment to satisfactorily answer the examination question.

The fee to register for the test is \$10.00.

R. J. Trio Entertain At Dance

Following the Mines-Carroll game, Friday, February 26, Sigma Rho and the sophomore class sponsored a mixer in the SUB. Students from both colleges danced to the live music of the R. J. Trio.

Earlier in the evening Sigma Rho sponsored a basketball game against the coeds to raise money for the Heart Fund Drive. Parts of the Frats' charming outfits were seen at this dance.

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Have You Heard?

Rumor has it that Joe Kandle did the strip to the "Stripper" on top of the piano at the recent Rho beer bust.

The coeds, cocky after their recent basketball exhibition during the Carroll game, have issued a challenge to other teams for another game.

Bill Novack's now defunct "Beaver Shooters" team immediately indicated a willingness to accept the above challenge.

Hey, Angus Hemp, when are you going to return Birkholz's G.I. mess kit?

Here's a switch! Bernie Harrington of the U. & I. was seen on campus last Saturday accompanied by a couple of "regulars."

Vesta Scott may have a right to complain about the acoustics in the SUB Snack Bar. It seems that every time she yells "hamburger" or "cheeseburger," these words echo about three or four times before the noise dies down.

This column feels that Bob Heap-hy, Mortimer Snurd, Cathy Burke, Charlotte Mathews, Cecil Snodgrass, Brooks Coombe, Joe O'Mara, Freida Frump, Shiela Dorgan and Doug Meserole have long been neglected by this newspaper. As a tribute to their fortitude here at MSM, we proudly publish their names.

A certain coed is mad because she is losing her touch with her old "flames." Kind of burned out, huh!

Hey, Mike, what were you up to at the swimming party at Gregson's last Friday night?

A little ditty recently observed on campus: Nine out of ten men who have tried Camels, prefer women, but nine out of ten men who have tried MSM coeds went back to Camels!

Quite a few guys from MSM were seen frequenting the various tournament activities last weekend. How was the hustling, fellas?

Tony Sadeki has devised an unusual plan for ridding the human race of all undesirables. Why don't you let us all in on it, Tony?

What was Leona Harrison's name doing on the Great White Leg recently sen on the door to the Coed Room?

On Monday afternoon, Kathy Verona was seen ordering a Seven-Hi in Jimmie's Tea Room. Hey Kathy what was on your mind? Too many parties that weekend?

What did Richardson, Wold and O'Mara leave at the top of the "M" last Friday night?

What is this about Mary McGrath getting brownie points in gym for asking which way to hit the birdie?

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"RED"

by Doc Jordan

The friendly smile that usually greets you when you enter the side door of the boiler room comes from the face of John J. "Red" Twomey. This engineer has been an employee on campus for over ten years; he knows and performs his job in an excellent manner.

"Red" was born and raised right here on the West Side. He graduated from Immaculate Conception and Butte High Schools. Before he came to work at MSM, he was a maintenance man at the Finlen Hotel and a laborer for the Montana Power Company.

"Red" spent four and one-half years in Europe during World War II and made a service record that any American soldier would be proud of.

He married the former Laverne Carral, who was also born and raised in Butte and the couple, who live at 327 South Montana Street, have five children ranging from the ages of two to sixteen years.

"Red" is an avid fisherman and



JOHN TWOMEY

spends much of his spare time on the river. He also follows local high school and college sports. Of all these sports, football is his favorite.



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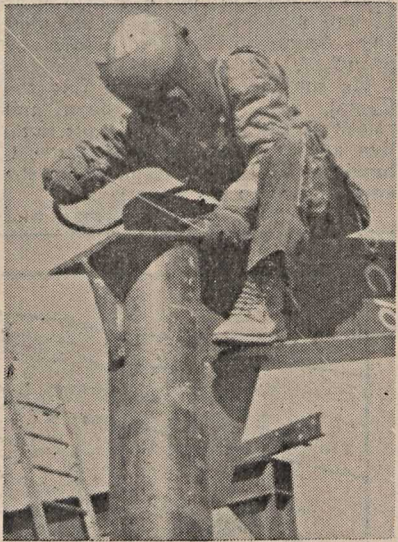
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COLISEUM PROGRESS

The new MSM Alumni Coliseum will be ready for initial use by the time baseball season opens next fall. Work has continued all winter preparing forms for the concrete footings and pouring footings for the baseball grandstand, as reported in a previous issue of the **Amplifier**. Between thirty and forty tons of structural steel have now been erected on the footings and that much fore steel will be used before it is completed. After this, comes the concrete block building below the grandstand, housing change rooms, concession area and public rest rooms. Steel is also available for putting a roof on the grandstand, but erecting this is quite expensive due to the difficulty involved in working with steel that high in the air. More funds will have to be made available before it can be scheduled.

Another project which will follow as soon as the ground thaws and dries out will be that of cutting and bringing to the field 50,000 feet of turf to complete the infield and right field of the baseball diamond.

In less than a year, then, the primary excavation of 56,000 square yards to level the area, the hauling of sand, soil and turf, the creation of extensive parking facilities, the lengthening of Park Street, and now the grandstand and fencing are objective realities. The fine cooperation of many groups and individuals made this progress possible. It is apparent that a deep belief in the future of the college and of the community at large, exists in the hearts and heads of these contributors. If the rest of us can accept their example and contribute as generously when called upon, we will have an enduring resource for health and recreation that will continue to serve us for as long as there is a Butte community.



Help from Outer Space.

Students Swing At Hootenany

Over 150 college students from Western Montana College and the School of Mines participated in an intercollege hootenanny, Saturday, February 20, in the MSM Student Union Building.

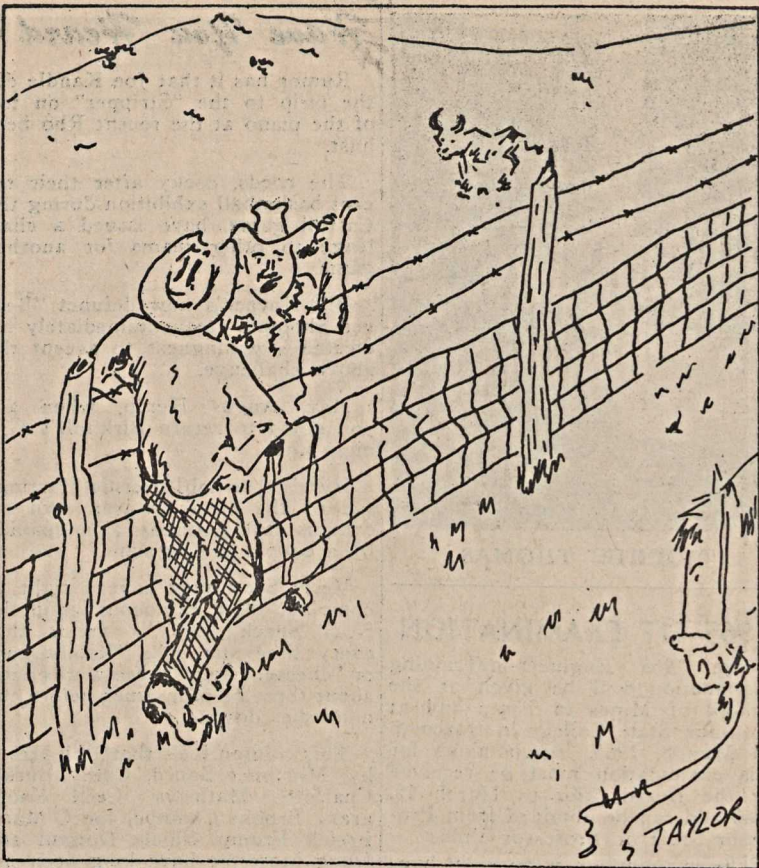
Bob Seidel, M.C., introduced the groups from both schools. Those from MSM included: George Volvsky, Glenn Johnson and Bob Norrine, singing, "The Lion Sleeps Tonight," "Long Tall Texan," "Julian," and "If I had a Hammer;" Sue Kephart, Charlotte Matthews and Patty Dunks, singing, "Michael," "Five Hundred Miles," and "Row, Row, Row, Your Boat;" Gary Dall, John Bloomer, Dale Lockes, and Greg Baird, singing, "Green Back Dollar," and "Cool Waters;" and Lois and Bob Seidel, singing, "Lemon Tree" and "Bless This Home."

The Dillon group also presented a skit, the "Frontier Mortician." Students participating from Dillon were: Dan Doran, singing, "He's Got the Whole World In His Hands," accompanied by Doreen Dover; and Linda Saheina, singing, "You Can't Get a Man With a Gun."

This event was sponsored by the Intervarsity of Bible Study of MSM.



The Dardanelles entertain at Hootenany.



YEAH, OUR OLDEST BOYS GETTIN' A B.S. DEGREE FROM THE MINES THIS SPRING. FROM LISTENIN' TO HIM LATELY I THINK THAT DEGREE'S WELL NAMED!



Action at Mines-Carroll Game

MINES WINS GAME

On Friday, February 26, the Carroll College Intramural Champions invaded the Mines' gym only to be stunned by the Mines' Intramural Champions by a score of 49-45.

Ken Tholstrom of the Mines led the scoring column by dumping in 13 points, 12 from the field and one from the charity line. He was followed by Ceserani with 10, and Albright and Weaver hitting for 6 apiece. Rounding out the scoring for the host team were Evans and Simonich with 4 each, and Gow, Madison and Bennett for 2 apiece.

Zoske and Powell paced Carroll with 14 and 11 points, respectively.

Coeds Triumph Over Rho Boys In Charity Basketball Games

The boys from the Rho House, (or were they girls?) were craftily defeated by a well organized(?) team made up of coeds. Leading the coeds in scoring were Kathy Verona and Leona Harrison.

The boys jumped off to an early lead but the girls managed to pull ahead although sometimes they may have had one or two or three extra players on the floor. The "Little Beavershooters" were hardly out-classed but couldn't quite keep up with the boys' swinging elbows and flying feet. Whether the coeds actually won or not, they surely deserve the victory for all the bruises and scratches they received.

After the game, members of both teams canvassed the crowd for donations for the Heart Fund. The fans were very eager to donate to such a worthy cause, after they saw the coeds were willing to sacrifice the odd pound or ounce for the entertainment of the audience. The total donation amounted to almost \$24.

Mines Lose Finale

The Orediggers were defeated by a score of 78-58 in the final game of the season by the Saints of Carroll College.

The Mines held the score close in the first half, trailing by only eight points, but Carroll broke wide open in the second half to secure the victory. The victory left Carroll with hopes for an undisputed second place in the M.C.C. (Montana Collegiate Conference), and the loss left the Mines with a 0-10 record. Gary Briney and Ed Nordquist paced the Mines with 18 and 16 points, respectively.

DIANA HUGHES

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