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Associated Students of the Montana College of Mineral Science and Technology

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Brown, Tholstrom receive scholarships

Cameron Brown and Kendall Tholstrom, both seniors in Petroleum engineering, received scholarships in the amount of five hundred dollars each from the S.P.E.

Each year an outstanding student in petroleum engineering is given a scholarship by the "Society of Petroleum Engineers". The Scholarship is usually presented to a student from Montana.

Cameron Brown was originally awarded the scholarship in 1962 but because of an accident was forced to leave school going into his '62-'63 senior year. Kendall Tholstrom was president of his class in his junior year and like Cameron was active in sports.

The S.P.E. is the professional organization of Petroleum and Engineering people, who are affiliated with the oil and gas business. This particular section covers the entire state of Montana and is made up of members of the faculty at Montana Tech and engineers of all major oil and service companies in Montana.

Student has paper accepted by journal

George Ann Thurston, Engineering Science department senior, has had an article accepted for publication in "Energia Nucleara", an international journal published in Milan, Italy in nuclear energy and its applications.

The article, which summarizes her senior thesis under the direction of Dr. Fathi Habashi, is entitled "Kinetics and Mechanism of the Dissolution of Uranium Dioxide." Dr. Habashi stresses the fact that although his name also appears on the article, the work is largely Miss Thurston's.

The subject of the article is the problem of handling uranium compounds which are present in the waste from nuclear reactors. It describes experiments in which insoluble forms of uranium oxide were treated with sulfuric acid or sodium bicarbonate and sodium carbonate in varying concentrations and under varying oxygen pressures, the purpose being to produce soluble forms of uranium oxide. Results indicate that the dissolution of uranium oxide is an electrochemical process similar to the corrosion of metals.

The work was carried out under Grant GE6626 of the National Science Foundation. This is Miss Thurston's second published article.

Faculty banquet given

On November 24, the faculty wives of Montana Tech held a banquet for the faculty at the Holiday Inn there with a social hour preceding at 6:30 p.m. Mrs. S. L. Groff and Mrs. C. L. Herndon were in charge of arrangements. Others helping were Mrs. E. A. Atrean, Mrs. R. B. Berg, Mrs. W. W. Chance, Mrs. F. N. Earll, Mrs. E. Gilmour, Mrs. E. L. Holverson, Mrs. K. S. Stout, and Mrs. F. M. Young.

Entertainment was provided by Miss Wegner, accompanied by Mrs. Kohler Stolt.

Activities announced by A.W.S.

The Associated Women Students have announced their recent activities and plans for more activities in the future. For the past several weeks, they have been modeling for the Klothes Inn. Those modeling are Hilma Thompson, Kendell Tholstrom, Evalie Tomazich, and Evalie Tomazich. Those modeling are also students who do go up to the balcony. The entrance to the present library will be unchanged but the entrance to the balcony will be situated somewhere along the south wall of the building. At the top of the stairs will be located a number of book shelves and cabinets of the proper size and shape. The entire project will be completed in the spring. This project may be used at any time by students from Tech who wish to use these records or microfilms.

Seven Tech students participated in the fifth annual Business Management Clinic in Butte on November 15 and 16. The clinic, sponsored jointly by Montana Tech, Montana State University, and Montana Power Co., drew 59 engineering students and 7 faculty members from the two sponsoring schools. The students representing Montana Tech were Angus Epp, Gary Kump, Bob Lehfeldt, Jim Loomis, Bob Norbeck, Dale Scholz, and Bob Seidel.

The two-day presentation, held in the firm's auditorium, covered the growing fuel needs of the state. The electrical engineer and computer programmer, Phil Beagles, illustrated the effectiveness of electronic machines in reducing hours of work to seconds. Computers are heavily relied upon by the company to help management determine the rate and size of power plants, transmission lines and substations, and to help line builders determine where to put poles.

L. S. Stalder, vice-president—gas and oil operations, and John Robinson, manager of the gas department, explained the company's activities necessary to keep pace with the growing fuel needs of the state. Bob Labrie, assistant chief engineer—generation, explained the reasoning for building a 180,000 kilowatt, coal-fired generating plant in Billings in preference to an atomic plant. Atomic plants are capable of producing large quantities of power, but there are not enough people in the state to make use of it. Therefore, such an installation would be uneconomical at this stage.

The company executive assistant, W. P. Schumacher, outlined the future operation of the utility's open pit coal fields at Calsipai to supply the coal-fired generating plant being built in nearby Billings. By 1980, 33 men will be mining nearly two million tons of coal a year.

At the completion of Tuesday's program, the participants attended a dinner in the Flinck Room.

Wednesday morning the students visited the company's demonstrations at Wyoming and Broadway. The clinic was concluded that afternoon.

A.W.S. officers at work are Cheri Thorton and Kay Lear, seated from left to right, Ross Byrnes, Leora Tomazich standing from left to right. Carol Trytholl was not present.
Educational changes help engineering students adapt to growing technology

By STEVE BAUER

Poor Joe. He used to work as an operations engineer at an open pit. Recently, the management decided to implement a computer to handle data, raising the specter of future mining evaluations. Since Joe’s degree was in mining engineering, he had never had, or had ever been interested in, computer programming and was unable to adapt to the change. Someone else could and took his place.

This example illustrates the problem that students face in this decade of explosive technological change. An engineer must be more knowledgeable about related and diversified fields than ever before. More than ever, this preparation is the joint responsibility of the faculty and the student.

New advances in any field result in more study material. Mental and physical study time limit the new concepts that a student can handle. To make new technical courses possible, nonessential courses are eliminated and related courses are combined. When new concepts are introduced in a subject, individual points are given less rigorous treatment.

Understandably, instructors are apprehensive about such changes. The treatment of a subject must be adequate to insure that the student understands and can work with the fundamentals involved. For a job in industry, a student must receive practical training, but he must be taught enough theory to keep up with technological advances. He must take courses in the humanities to develop social awareness and abilities. To handle the vast amount of material, education by rote is rarely employed now; a student is exposed to as much material as possible in as compact a package as possible, in the hope that he can find the information when he needs it and will be able to apply it.

Specialization in a field leads to subdivisions in which students may wish to make careers. Often, the most beneficial subject matter for work in the subdivision will differ somewhat from that for the field as a whole. If a student knows in advance what specialized area he plans to enter, he should make appropriate courses available through his curriculum.

For professional versatility, many students now go an extra year or two to receive additional degrees. Each year more students take graduate work for specialized training.

Advances in technology necessitate changes in curricula. Only by constantly reviewing her courses of study can Montana Tech continue to produce qualified engineers who won’t share the fate of “Poor Joe.”

Marsha Adkins

Frosh President stresses class pride

Bob Chew

One’s freshman year is memorable because all beginnings are memorable, and this is the first of many memorable years. When we look back on this year, we want to be proud of what we did and proud of what we were.

Pride doesn’t just happen; it must be built. It must be built as any thing else is built; piece by piece. A house is the sum of its bricks, joists, and beams. The individual pride each member takes in his part in the class, not only socially but also scholastically, is a brick. Out of these bricks a house called class pride. If this house is built on a rock, its foundation will be secure, and it will last a lifetime.

For pride is a habit which can be acquired. Once a house is built, it cannot be given up except voluntarily, and it pervades everything its owner does. A person who takes pride in his dreams, accomplishments, and himself will be successful in everything he tries. One who has no pride will fail, at least in part, in anything he attempts. Now, at the beginning of college, is the ideal time to begin building that pride which will anchor a life full of purpose and satisfaction.

—Bob Chew

Will computer backlash replace white backlash?

Computers can now name the probable winner of an election just after the polls close. In the future, computers may give the likely winner just after the polls open. If this ever happens, people may wait to see the computer predicts will win—then go out and vote the underdog in.

“It requires a very unusual mind to undertake the more difficult of these obvious.”—Alfred North Whitehead

AMERICAN AMPLIFIER

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Popular Science.

Engineersomatics

These are typical Engineering Science students shown in one of their labs. A relatively new field, Engineering Science offers broad knowledge rather than specialization. Students are left to right, Don McLaughlin, Jim Loomis, Chuck Parrett, and Jim Parnett.

What is an engineer? The word engineerng comes from the Latin word ingenium, which means a natural capacity or talent, and from the French word enginner, which translated means to contrive. According to these early concepts an engineer was a person with the natural capacity to contrive. Keeping this definition, we can describe an engineer as a person trained in mathematics, physics, sciences, engineering sciences, and the humanities, who applies this knowledge, judgment, and experience to develop economical ways of utilizing the forces, energy, and materials of nature for the benefit of mankind.

Students of the Montana College of Mineral Science and Technology, Butte, Montana 59701. Entered as Second Class matter on January, 1969, at the Post Office at Butte, Montana, under the Act of March 3, 1879, as second class mail.

EDITORIAL STAFF

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Butte, Montana

PUBLICATIONS COMMITTEE: Robert Taylor, Frank Young, Ernest Gilmore, Dr. Ralph King.

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Practically all interviewers coming on the campus have expressed an interest in interviewing students in Engineering Science.

Why this demand and interest? Because graduates of this program can fulfill the educational requirements for a large variety of career opportunities. These include the glamorous new space age titles as well as the common engineering development, design, and research in the basic industries.

A period of adaptation to specific position requirements can be expedited by the student through industrial training programs following graduation, or advanced studies can be undertaken to obtain more professional specialization in industrial employment. This specialization may be in any recognized field of engineering. Even without additional specialization, the broad knowledge provided by this curriculum enables the graduate to qualify for a great diversity of positions.

If you have any questions, or wish any more information, the Engineering Science department will be happy to try to answer any of your questions.

STUDENT COMMENTS

The following comments were made by some of the senior students in Engineering Science.

1. Jim Parrazi: “Corporations of every type imaginable are interviewing Engineering Science graduates because the Engineering Science Department is superb.

2. Jim Loomis: “The Engineering Science Degree is probably the most versatile degree offered at Montana Tech. Students pursuing a degree in Engineering Science often are able to find summer employment ranging from ranching in the oil fields to basic research conducted by the department.”
Two Tech students discuss interests

Two popular Montana Tech students are in the spotlight this issue. They are GeorgeAnn Thurston and Paul Melvin.

GeorgeAnn, who is a senior engineering student, lists her subjects as: economics, mining law, advanced mechanics, electricity, engineering applications of math, and physical thermodynamics. Her favorite subjects are mining law and advanced mechanics.

Gardening and sketching are among her hobbies, and reading is also one of her likes. When asked about her dislikes, GeorgeAnn said that she had none.

She is active in several clubs. GeorgeAnn is the vice-president of the Associated Students and the secretary-treasurer of the honor class. She likes Montana Tech "real well" and says she will be glad when graduation day comes. GeorgeAnn plans to combine engineering with law.

Paul is a sophomore engineering student. His list of subjects include chemistry, quantitative analysis, engineering graphics, geology, and sophomore calculus. His favorite subject is geology and Dr. Dresser is his favorite professor.

His favorite hobby is skiing, and he enjoys mountain climbing. He thinks Montana Tech is a great engineering school but he dislikes apathy among the student body. Other dislikes include slips from the Dean's office and broken flashlights.

20, Paul, too, is active. He is a junior. He is president of Newman Club, vice-president of the Young Democrats, and secretary-treasurer of the Circle K Club. He is also a member of Chi-Rho and the Mountaineer Club. He is interested in starting a ski club for those interested in that sport.

Paul hopes to attend West Point next year. However, if this hope does not materialize, he plans to go to graduation from Montana College of Mineral Science and Technology with a degree in geology.

$25,000 international peace essay contest to be offered in 135 countries this year

The International Association of Lions Clubs has inaugurated a novel approach for the quest for peace. It is a $25,000 international peace essay contest, open to young people aged 14 to 21, inclusive, designed to explore ways by which people can live together in peace. The contest will be held in 135 countries where 8,800,000 Lions members work toward the improvement of international understanding and good will among nations.

The Club's main ambition is to have private citizens, as well as diplomatic channels, search for a solution to present warfare, and to develop a personal-person-to-person contact across borders, summing up language and cultural barriers.

The first prize is a $5,000 educational or career assistance grant. There will be eight additional awards, with the total prize money to be brought to Lions International's

Magma Staff begins work on yearbook

The Magma staff began work on this year's yearbook and plans to introduce a new approach to the book.

The staff met with a yearbook representative, Gene Slack from Billings, Montana, and at the conclusion of the meeting selected a cover and discussed pages layouts for the book.

The book, which will not be distributed until September, will be entered in a National Yearbook Contest, first at Montana Tech. Heading the staff are editor, Jim Loones; assistant editor, Jim Leifer; business manager, Kay Lear; photography editor, Bob Mitchell; and artist, Bonnie Petterson.

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Somewhere Else—a coffee house

It’s somewhere to go, it’s Somewhere Else. Somewhere Else is Butte’s own original coffee house, located in connection with the Silver Bow Kawiun Club of Butte, people have planned a Snow-Mobile rally for the Butte High School Park area. All students are invited to attend. Concessions and a warming and the refreshments provided, approximately 200 entries from all over the Northwest will provide some choice prizes. The parade begins about 2PM and demonstration rides and several displays for those interested.

The Circle K Club, dedicated to the annual High School Senior Days held in the early spring. This year they have planned a tour of the high schools of the area. The purpose of this project is to stimulate interest in the high school seniors of the Butte area. The opportunity to attend college is within the reach of all who participated last year.

The Circle K officers are as follows: president, Boyd Williams; secretary-treasurer, Paul Melvin; 1st vice president, Terry Angove; 2nd vice president, Bob Melvin; at large, Ray Martin, and board members, Tommy Wilson, Ron Bass, Jerry Harrington, and Doug Storer.

You save money smoking

there is much talk lately about the high cost of cigarettes. Actually, a person could save money by quitting. Suppose that he pays $100 a year for cigarettes. If he starts smoking at 18, finally contracts throat cancer, and dies at 50, he has only spent $3800 for the habit. If he didn’t smoke, he might live to the age of 62. Let us further suppose he is an average American who lives beyond his means, he must meet demands on his home car, appliances, etc., and pay back loans. The result is that presumably he has spent $38,000 in debt. If he sells his address, each year he will owe $11,000 more by one year later, he is dead. He has saved himself $7,200 if he smokes and dies sooner. Also, he won’t be faced with a $38,000 bill over his years of worry over his increasing debt.

So lock on the bright side. No matter how many ways to save by not smoking, and making cigarettes will save you money.

... maybe.

Why some fall subject of book

In a fascinating book, called The Blight on the Ivy (Prentice-Hall, 1965), Richard and Catherine Gordon tell of a campus whose personality problems keep them from achieving success. Interestingly enough, they are the answer. A group of 250 high school and college students who had comparable experiences were polled at the end of the book and were asked if they had the same sense that they did less well than all would expect from the test scores.

Factors that seemed to make a difference were hard to determine, but a few characteristics were common to most underachievers:

1. Their parents’ interests were not intellectual.
2. Their parents did not complete high school.
3. Their fathers had lower-middle-class or lower-class occupations.
4. The students’ own interests were not intellectual.
5. The students had clear long-range goals and ambitions.
6. The students did not seek help and counsel from older, experienced people.
7. The students’ mothers did not work outside the home.
8. The students had illnesses in addition to the usual childhood diseases.
9. The students had disciplinary problems in school.

These students were often not exposed to minority religions or ethnic group. Obviously many of these problems are not unique to the students but suggest that institutions, cultures, and society are far from perfect. They are not enhanced, or not been taken as granted or sacred.

Speakers Bureau explains its purpose

The Speakers Bureau, which is maintained at Montana Tech, is a bureau to handle requests for both faculty and foreign student speakers.

Certain faculty members are available to accept requests relating to their special fields. Other faculty members are available for special occasions including elementary and high school commencement addresses.

Some foreign students have indicated a willingness to discuss their country’s background, political situations, or social life. The group desiring his services must arrange for his round-trip transportation.

When asking for a speaker, a weeks’ notice is required. Also, you must state the speaker you desire, topic, place, and the expected size of the group that will meet, address, and the date.

To secure a faculty speaker, get in touch with Mr. Robert Athearn. To secure a foreign student speaker, get in touch with Professor Ralph L. Smith.

“Children have no conscience. If they did, they would be better than people.”—Dagobert Dunes

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Phone 792-4231, Butte

NEWMAN’S BOOTERY
76 E. Park

The Friendly door of Somewhere Else, young people’s coffee house.

The Circle K Club, dedicated to service, is planning several new projects for the coming year. One of these is the establishment of a Speakers Bureau at Montana Tech. Above the friendly door of Somewhere Else, young people’s coffee house, the Circle K Club was revived this year in Butte. The club is non-denominational and all unmarred high school graduates are welcome.

A.W.S. sponsors Christmas Dance

The annual Christmas Dance, which is sponsored by the A.W.S., will be held in the Student Union on December 18. Each weekend, the coffee house is open Friday through Sunday. It is staffed by Circle K members who donate their time to hopping tables and pouring coffee.

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Exhibit is reminder of apex-rights suit

The model exhibit now located on the second floor of Main Hall. This geological model was used in a famous mining suit.

As a part of the vein originating in the Mountain Mining Company's claim and therefore should be the Secretary of War. Amelia Earhart (famous aviatress) was identified as Prime Minister of West Germany, and J. Ross Clark. Owner of a claim is allowed to mine beyond the boundaries of his own claim. The model exhibit now located on the second floor of Main Hall. This geological model was used in a famous mining suit.

Marcus Daly statue came here in 1941

Marcus Daly was born in Ireland in 1841. He migrated to the United States when he was just fifteen years of age. He engaged in mining activity in California and Nevada before coming to Butte. Here he founded the Anaconda Copper Mining Company to prove their case in defense of a suit brought against them by the Montana Mining Company, Clark-Montana Realty Company, Elmore Mining Company and J. Ross Clark. According to mining laws, the owner of a claim is allowed to mine beyond the boundaries of his own claim if there is proof that veins outside of his claim are a part of his established claim. In this case, the Montana Mining Company felt that ore bodies worth $6,000,000, that the Anaconda Company was then mining below Clark’s Poser claim, were a part of the vein originating in the Poser claim and therefore should belong to them. The Anaconda Company claimed these ore bodies as a part of their Badger Mine. The model was used as evidence that the Poser claim was non-existent.

The case was taken to the United States District Court at Butte in 1926. Early the next year the Court decided that the Poser vein was non-existent and in favor of The Anaconda Company. Clark took the case in November of 1927 to the United States Circuit Court of Appeals in San Francisco. Again the Court rendered the decision that the Poser vein was non-existent. More than likely the case would have been taken to the United States Supreme Court; but later in 1928 the Clarke interests sold out to the Anaconda Mining Company.

Mr. Robert Athearn said, asks the question this way: “The sobering results of this test make clear what we all know: that graduation from high school involves knowledge of only certain limited academic areas and in order to graduate may apply. This geological model shows the various mining claims and underground mineral deposits. It was constructed by the Anaconda Copper Mining Company to prove their case in defense of a suit brought against them by the Montana Mining Company, Clark-Montana Realty Company, Elmore Mining Company and J. Ross Clark. According to mining laws, the owner of a claim is allowed to mine beyond the boundaries of his own claim if there is proof that veins outside of his claim are a part of his established claim. In this case, the Montana Mining Company felt that ore bodies worth $6,000,000, that the Anaconda Company was then mining below Clark’s Poser claim, were a part of the vein originating in the Poser claim and therefore should belong to them. The Anaconda Company claimed these ore bodies as a part of their Badger Mine. The model was used as evidence that the Poser claim was non-existent.

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Marcus Daly was born in Ireland in 1841. He migrated to the United States when he was just fifteen years of age. He engaged in mining activity in California and Nevada before coming to Butte. Here he founded the Anaconda Copper Mining Company to prove their case in defense of a suit brought against them by the Montana Mining Company, Clark-Montana Realty Company, Elmore Mining Company and J. Ross Clark. According to mining laws, the owner of a claim is allowed to mine beyond the boundaries of his own claim if there is proof that veins outside of his claim are a part of his established claim. In this case, the Montana Mining Company felt that ore bodies worth $6,000,000, that the Anaconda Company was then mining below Clark’s Poser claim, were a part of the vein originating in the Poser claim and therefore should belong to them. The Anaconda Company claimed these ore bodies as a part of their Badger Mine. The model was used as evidence that the Poser claim was non-existent.

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Tech cage men go into action tonight

Montana Tech's Orediggers will open their season tonight against Mt. Royal Jr. College in the school gym. The Orediggers will go into the season with eight returning let-

The new members of the team are Lee Staliger, Bob Chew, Richard Gunz, Patrick O'Brien, Jack Hum-
phrey, and Richard Kloppe.

Considering the number of returning let-
terms, the Orediggers are expected to see a fine upcoming sea-
son. This could also be helped by more students coming to the games.

Montana Tech will meet the Ca-

Basketball schedule

The forthcoming basketball sea-
son will be scheduled as follows:

DECEMBER
2- Mt. Royal Jr. College at Butte
3- Mt. Royal Jr. College at Butte
18-19- Dawson Jr. College Tour-
mament at Glendale

JANUARY
7- Carroll at Butte
10- Western at Dillon
14- Northern at Havre
17- Carroll at Helena
20- Lewis and Clark at Lewiston,
Idaho
21- Lewis and Clark at Lewiston,
Idaho
22- Eastern at Butte

FEBRUARY
3- Eastern at Billings
4- Rocky Mt at Billings

Dirty Dozens

In the final play-off of the 1966
intramural football season, the Dirty
Dozens emerged victorious. They
played an exceptionally ferocious
game, especially for intramural ball.
All in all, the Dirty Dozens played a
very fine game.

Their season consisted of a 3-0-1
record compared to the V.I.P.'s
3-1-0. The Rocks came out with
1-2-0, the Theta Tau's had a dis-
appointing 0-2-1, and fate was
against the Knoxins, as they had
0-2-2.

The Dirty Dozens consists of Joe
McManus, Pat O'Hara, Mike
O'Keefe, Jerry Trythall, Mike Han-
son, Bill Steenker, Dan Shea, Don
McIntyre, Bob Petrka, Mike Zura,
Mike Tropay, Bob Blair, and Joe
Smith.

Weighlifting class begins exercises

The Montana Tech weightlifting
class is in progress again this year,
starting another season of body
building. The class is held second
period, during the P.E. class, on
Monday, Wednesday, and Friday.
Approximately 15 students partici-
pate in each session. This year's in-
structor is Al Vukovich, Jr., replac-
ing Tom Downey.

A dozen exercises are completed in
the 30 minute period. These ex-
ercises are mainly for strengthening
the whole body with emphasis on the
arm, back, legs, and stomach.

After three months of these ex-
ercises, students run 5 laps in the
gym.

It is hoped that the weightlifting
class will be scheduled for different
times during the day next semester
for more students to participate.

Dirty Dozens emerge victorious

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Friend? Enemy?
Definitions change

Men have always tried to define
friend and enemy, but the defini-
tion is never complete. Changing
times and social patterns are res-
ponsible for new definitions. At
times in the past a friend was
someone who was willing to go to
extremes, even to the point of harn-
ing you, to prevent you from hurt-
ing or wronging yourself. At other
times an enemy was anyone who
would interfere with your right to
free thought and expression.

Perhaps the following definition
applies for today's standards. An
enemy is someone who contrives to
do you harm. A friend is someone
who stands by and lets you weave
your own undoing.

Some of Tech's musclemen are shown here in the weightlifting class. Front, left to right: Eddie Fong, Jim Smith, Tony Barilli; John Powell, Chris Croff; standing, Kirk Han-
dov, Harry Sowers, Leonard Mark. Al Vukovich, Jr., is the instructor.

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