Welcome everybody

Welcome to Montana Tech's E-Days celebration. This event, as it is popularly called, is sponsored by the Anderson-Carlisle Society. They have been busy for the last several weeks making and carrying out their plans so that E-Days will be a success.

E-Days was first started in 1956 to acquaint the public with the many and varied activities and educational offerings available at Montana Tech and to give a glimpse of the engineering atmosphere that Montana Tech is well known for.

The purpose of today's E-Days is the same.

The Amplifier is your official program and includes a list of exhibits, a brief description of each exhibit and the location of the exhibit, together with a map of the campus. Every department of the College has an exhibit and is open to your examination.

Most of the exhibits are prepared on a department basis and are complete with models, demonstrations, lectures, and various displays. The exhibits replicate the offerings of the department or of a particular career field.

In addition to the departmental displays the newly reodeled library, and the Mineral Museum are open for your inspection. The Mineral Club, a student organization, has its collection complete with students cutting and polishing its own specimens.

On Saturday, the final day of the Science Fair is being held in the gym. Sunday afternoon the Montana Tech Band is giving a concert in the Copper Lounge at 1:30 p.m.

We urge you to take time and see as many of the exhibits as is possible. Both students and faculty are present to answer any questions you may have. If you are a prospective student feel especially free to inquire into the educational programs of the College at Montana Tech.

If you get tired and need a rest, refreshments are being served by the Associated Women Students in the Copper Lounge.

Enjoy yourself and thank you for showing your interest in Montana Tech by attending E-Days.

### Engineering Days

<table>
<thead>
<tr>
<th>Display</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Engineering Science Building</td>
</tr>
<tr>
<td>Geology</td>
<td>Main Hall</td>
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<tr>
<td>Geophysics</td>
<td>Petroleum Building</td>
</tr>
<tr>
<td>Humanities</td>
<td>Main Hall</td>
</tr>
<tr>
<td>Library</td>
<td>University Libraries Building</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Main Hall</td>
</tr>
<tr>
<td>Metallurgy</td>
<td>Metallurgy Building</td>
</tr>
<tr>
<td>Mineral Club</td>
<td>Second Floor, Mill Building</td>
</tr>
<tr>
<td>Mining Engineering</td>
<td>Metallurgy Building</td>
</tr>
<tr>
<td>Mining Engineering</td>
<td>Engineering Building</td>
</tr>
<tr>
<td>Petroleum Engineering</td>
<td>Tunnels, and parking lot west of the Copper Lounge</td>
</tr>
<tr>
<td>Physics</td>
<td>Copper Lounge, 1:30 p.m.</td>
</tr>
<tr>
<td>Petroleum Engineering</td>
<td>Sunday</td>
</tr>
<tr>
<td>Petroleum Engineering</td>
<td>Petroleum Building</td>
</tr>
</tbody>
</table>

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E-Days are here again

#### Library has exhibit

"The past — the Present — and the Future" is the theme of the Montana Tech library display.

"The Past" is a review of 75 years of Montana Tech history as traced in newspaper articles, college publications, photographs, documents, and accounts of some of the outstanding personalities among the faculty and alumni. The collection displayed in a series of glass cases, consists of historical items and original photographs.

"The Present" is the colorful new library reading room, and mezzanine floor constructed in an extensive remodeling project recently completed. Also featured are the library resources and the indexes, and a gas calorimeter, gas density equipment, and an operating house consumption meter.

"The Future" is represented by a display of material indicating the trend of today's new media in communication and the development of college and university libraries into a national information network.

#### Departments display equipment, work

- **Metallurgy**
  - Metallurgy deals with the extraction, refining, alloying, casting and fabrication of metals. This encompasses a rather broad range of activities and knowledge.
  - The Metallurgy Department at Montana Tech has therefore a variety of equipment which is on display and which can be explained to the interested visitor.
  - Amongst the apparatus which can be seen are a X-ray diffraction equipment, a modified electron microscope, a liquid nitrogen generator, microscopes, furnaces, testing machines for hardness and strength, DTA apparatus, electrobalance, crystal growing furnace, and many miscellaneous items.

- **Chemistry**
  - The Chemistry Department is presenting a programmed exhibit which introduces the viewer to general concepts of chemistry, and the applications of chemistry to today's living.
  - A dramatic example of the changes arising in the field of chemistry is an exhibit comparing the laboratory apparatus of today with that of 75 years ago with this atlas of today.
  - In addition to the exhibit, various movies show recent achievements made in the field of chemistry will be presented at Room 216 of the Metallurgy Building.

- **Geology**
  - The geology Department will have exhibits on four major areas of geology and a slide show on summer jobs for geologists.
  - The Mineralogy exhibit will include a display of minerals, crystals, fluoroceramic and blowpipe analysis of minerals.

- **Petroleum**
  - The Petroleum department will have numerous displays plus laboratory experiments, as their contribution to the E-Days celebration. As usual they plan to run their pumping unit south of the S.U.B. and also to build and display a water well drilling rig. In addition three model drilling rigs will be displayed showing the transition from old to the modern.

- **Library**
  - The library exhibits will consist of material such as distillation apparatus, plastic making kits, a gas calomelometer, gas density equipment, and an operating house consumption meter.

- **Mining**
  - The Mining Department will have an outdoor display of underground rock moving methods and equipment.
  - Standard and machinery will be used to simulate a drag stope and mining machine draw.
  - The exhibit will be located by the old barracks above the old store. Observation points and explanatory signs will be placed around the display, and personnel will be on hand to explain the operation in detail.

- **Mineral Dressing**
  - The Mineral Dressing Department will display the various phases of minerals beneficiation and displays on mineral dressing research.

- **Science Fair**
  - Science Fair is being held upstairs in the Engineering Building.
  - The usual displays of material such as distillation apparatus, plastic making kits, a gas calomelometer, gas density equipment, and an operating house consumption meter.

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"The Present" is the colorful new library reading room, and mezzanine floor constructed in an extensive remodeling project recently completed. Also featured are the library resources and the indexes, and numerous miscellaneous displays. A film will be shown regularly throughout the day entitled "Alaska Drilling."

Lab experiments will consist of material such as distillation apparatus, plastic making kits, a gas calomelometer, gas density equipment, and an operating house consumption meter.

"The Future" is represented by a display of material indicating the trend of today's new media in communication and the development of college and university libraries into a national information network.
What Can you do?
A reader speaks his mind

Listening to people discuss the problems of our school brings to mind a quotation of former President Kennedy: "Ask not what the country can do for you but ask what you can do for your country." We could rephrase this to say, "Ask not what Montana Tech can do for you but instead what can you do for Montana Tech.

In answer to the first part of the question "What can Montana Tech do for you?" we can say several things: First, when you graduate from this institution, you will find that Montana Tech has established a reputation for its graduates so that your starting salary will be at least $50.00 a month higher than the average starting salaries over the U.S. Second, Montana Tech has enabled you to get two or three years of your college education while living at home. This is substantial savings in the cost of room and board. In other words, Montana Tech has made it possible for you, a student to obtain all or part of your higher education.

Now, what have you done for Montana Tech? Have you attended the convocations to show that you were supporting your school? Or perhaps you have told a few prospective students about the school, what it can offer and that it has provided you with what you needed for your education? Have you contributed to class discussions or have you merely sat there and grumbled about over-work or nothing to learn?

We could go on and on, but of course, no school can possibly do it all for you, and I can only say that if everyone was completely happy, we would be no progress anywhere.

Going a little further, I think we should not stop with thinking about what the students themselves should do for Montana Tech but go a little further to say, what have you as a staff member of Montana Tech done for your employer? Have you tried in a calm and organized way to improve the things that did not please you, or have you merely sat back and grumbled that you don't play "the way I like to play ball."

Also, have you actively participated in extra-curricular activities that are a part of your education? Have you taken part in an organization, a choral group, band, dance, or doing some public relations work to improve the image of Montana Tech or cause a student to enroll here?

LITTLE MAN ON CAMPUS

Charles Herndon

Letters to the Edtor on any subject are welcome and will be printed at the discretion of the editorial staff. Manuscripts must be written under a pseudonym, but the author must be known to the Edtor.

Easter Formal—April 4

The International Ball will be held on Thursday, April 4 from 9 p.m. to 12 o'clock. It is formal for the women and semi-formal for the men. Men are requested not to buy corsages for their dates.

Exotic food from many different countries will be served at the dance. The food is being prepared by members of the International Clubs.

Two performances of the dance, will be given by the students. The first dance will be given by the Montana Tech Band, and the second dance will be given by the Montana Tech Orchestra.

The International Ball will be held in the Montana Tech Auditorium. Students are invited to attend.

The soloist will be Patricia Ori, soprano.

The program will consist of the "La Gazza Ladra" overture by Rossini, a selection for "R. Tavatore" by Verdi, and a "Norwegian Suite" by Sibelius.

Mrs. Ori will be heard in songs from opera and oratorio.

Mrs. Ori is a graduate of Northwestern University and is presently on the faculty of Western College in Dillon. She has been heard twice before with the orchestra and in numerous programs in the area.

The program begins at 2:30. Activity cards should be shown at the door.

On Saturday, April 6, the 1968 Little Man on Campus pageant will be held in the Montana Tech Auditorium.

The Little Man on Campus is chosen by the students to serve as a symbolizing figure on the campus. The Little Man serves as an ambassador for the school and embodies the best of the Montana Tech student spirit.

The Little Man is selected from among the Montana Tech student body and is chosen by the students themselves.

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Steve Bauer presents paper at AAGP and SEG meeting

Steve Bauer is shown at the central control unit of the Anaconda Company computer. During the course of his research, Steve used this computer and Tech's for a total of more than 500 hours.

On March 29, Steve Bauer, a junior in Geophysical Engineering, will present a paper at the joint meeting of the American Association of Petroleum Geologists (AAPG) and the Society of Exploration Geophysicists (SEG) at the University of Wyoming. The paper will be delivered. Following is the title of his paper, entitled, a Computer Approach to Electromagnetic Data Analysis. The paper will be published in the AAGP Journal. Steve may be the first undergraduate to deliver a technical paper at the meeting.

The paper will set forth some of the findings of a research project Steve has conducted for the past year. Briefly, he has found several techniques which will help a mining company to find ore, and which will give a rough picture of what the ore deposit looks like before it can be mined.

His research is based on certain radio waves which are affected by an ore deposit. Geophysicists have known for years that these radio waves indicate the presence of an ore body, but the waves are affected in such a complicated manner that they would not tell exactly where or how good the ore should be. Many attempts had been made to solve these problems, but with little success.

Steve proposed and investigated a new approach to the problem which is more difficult and complicated than previous attempts, but which seems to work well.

The research was originally begun in June, last year, under a $1,000 research grant, from the Anaconda Company. Mr. John Marshall, associate professor of Geophysics at Tech, has served as project advisor, and Mr. John McCauley, head of the Physics Department and Director of the Computer Center, has made the school’s facilities available to the project. The research has been continued under a $1,500 grant by Barringer Research, a Canadian geological company.

Although pages of equations are involved, the biggest problem in the research was not in developing the formulas, but in reducing them to a form that could be worked on the school’s computer. For example, the computer ran for forty hours over the Thanksgiving holiday weekend before it broke down. Since then, mathematical tricks have reduced the number of calculations at least a million times while improving accuracy, yet the school’s computer still couldn’t handle all the calculations in the last week of February. The Anaconda Company still couldn’t handle all the calculations in the last week of February, the Anaconda Company allowed him to use their computer, which is about 135 times faster than the model at Montana Tech. In all, about $3500 in computer time was donated to the project by the Anaconda Company. Montana Tech’s contribution for February alone, was the commercial equivalent of $11,000 in computer time.

NOMINATION DEADLINE SET FOR STUDENT COUNCIL

The deadline for nomination petition for 1969-70 Student Council office is April 17. Spring elections will be held on the first Wednesday in May, "M" Day.

For acceptance, petitions should be signed by 10 members of the Student Body, but not on academic probation. The candidates for president and vice-president must be an attendance at Montana Tech for the past year. Briefly, he has found several techniques which will help a mining company to find ore, and which will give a rough picture of what the ore deposit looks like before it can be mined.

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Luwanna Marjumma queen contestant

Luwanna Marjumma, a sophomore registered in the general course, was recently elected to represent Montana Tech in state competition of the National Col."...

Almost every college in Montana has a queen contestant, including Montana Tech. LuWanna Marjumma, a sophomore, recently was elected to the title of Montana Tech's queen. She hopes to go on to the national competition to become the nation's "most outstanding college girl." LuWanna plans to attend Montana Tech next year and is a member of A.W.S., W.R.A. and enjoys collecting antiques and sewing.

—Engineering Science

The Engineering Science Department will have active laboratory displays in Electric Machines, Fluid Mechanics, Heat Power, Mechanics of Materials, and Soil Mechanics. The department will have active labs in the Petroleum Building.

A "Magic Faucet" that dispenses water from mid-air will be the feature exhibit of the Fluid Mechanics Lab. Also in operation will be the new wind-tunnel to demonstrate the effect of displacement of objects. An air-craft wing, an automobile body, and other objects, in one of the wind-tunnels, will be a cut-away of an automobile differential and a transmission. There will be a "Magic Faucet" that dispenses water from mid-air.

Climbers explain why people climb

Recently, when we interviewed a member of the climbers club against him "Why do you climb?", the answers he gave were not only interesting, but also quite in depth.

The first reason he gave was the enjoyment that he experienced. This was especially evident in his account of the scenery from the top of the mountain. This was the true beauty of nature according to the climber.

The second reason given in answer to the question posed was, "Well, it helps the climbers to obtain a feeling of confidence. This was necessary because of the dependence of others upon you and likewise, through your dependence upon others you learn to trust them. Through this aspect of climbing, many friendliest friendships are formed.

The final answer to the question "Why do you climb?" was expressed as the feeling of accomplishment that a climber experiences at the "peak" of his" peak. True mountaineers find climbing a challenge. The higher the peak involved, the better. The really high ones, too, seem to harbor a mystic air, realization of which can be only sought in other sports. To conquer these mountains, then, is to achieve much personal accomplishment.

Climbing club, however, is not all talk and no action. The members are presently planning a climbing expedition to Needles State Park in South Dakota during the Easter vacation. Interested persons should attend a meeting of the Mountaineer Club for further information and outlining.

Robert Ramsey adjusts equipment for preparation in the Miner Dressing E-Days exhibit.

Spelunkers explore caves

A group of spelunkers (cave explorers) from Montana Tech recently penetrated the depths of Rams Horn Cave, near White Sulpher Springs. The group, consisting of Bob Lambeth, Terry Nordella, Terry Cox, Dennis Calton, and Harry Sowers, left for the cave on Saturday, March 9, and returned to Butte the following day.

Sowers, a member of the National Speological Society, reported the cave to be unusually extensive for this area. He described the cave as being one very large room and several smaller rooms with high ceilings and large breakdown. Rocks the size of a house produced a maze like effect and created many very small openings. One opening could be negotiated only after the removal of all equipment and the help of the rest of the party in forming a passage through. The cave had very little formation with the exception of a few stalagmites and some popcorn.
Dr. Smith's books given to library

New references will soon be available in the library on the subjects of Math, Psychology, and Philosophy. These books were among the reference books owned by the late Dr. Adam J. Smith. The collection was taken from Dr. Smith's office and apartment and stored under the supervision of Mr. Thomas Kelly. Mr. Kelly turned the collection over to Montana Tech through Henry McCheran who with Ray Martin moved the books to our library.

Dr. Adam Smith came to Montana Tech in 1943. He headed the Math Department from July, 1944 until his death in November, 1966. He was an innovator and is well remembered by the Juniors and Seniors for his "class com- mentaries." Dr. Smith was an excellent chess player and at one time was the state champion. Dr. Smith's collection is well appreciated not only by the student body, but also by the teachers at Tech. The collection was donated by his heirs, and will be ready for our use as soon as they are cataloged.

Stratigraphy class take trips

The stratigraphy class, taught by Dr. Hugh Dresser of the geology department, has recently taken two field trips and has future plans for several more.

The trips usually take a half day, the first of which was to Jefferson Canyon where the students observed the Lahood Formation, and the second trip was to the Southern Elk Horn Mountains, where the Flathead Formation was observed. The future trips include Jefferson Canyon, and several trips to the Big Hole River East of Glenn.

The object of the trips is to examine various rock units and determine the environments and mode of deposition of the units. Attending the last two field trips were Dr. Dresser and his son Douglas, Bob Cherney, Bob Miller, Karl Pack, Clare Pogreba, Jeffrey Russell, and Wayne Peterson.

Hippie Hints

Here is a special tip for you beginners in the art of transcendental meditation. Many of you may be having problems in the realization of the ultimate electrical banana. Obviously this level should not be attempted, unless one has reached the level of negative zero patterns, which can only be brought on through defluxation of one's cosmic stimuli. The solution as you have probably guessed, is simple.

As you are standing on your head, preparing for the final phase of de-metamorphosis of the existence factor, keep in mind the words of the great guru, Khana Flai Tuc. "Plastic reaction is the result of the indivisible joke rays which infect the cerebrum from transformed sources." With this helpful wisdom from the master, coupled with your own high frequency counter-rythmic undulations you should be well on the way to the pathos zone, where undoubtedly you will begin to feel the static aura of the ultimate electrical banana.

Horgan isn't cheap. We are all spend thrifts.

GEO. STEELE CO. INC.
13 W. Broadway
RADIOS-StereO-T.V.
Phone 792-4211, Butte

OSSELLO'S
926 S. Acme
Phone 723-6552

P & R DRUG
37 W. PARK
Butte's Largest Selection of After Shave Lotions & Cologne

Poets' Corner

The Open Road

The open road, hard and long, Nostalgia, full of the sweet smell of tar, And exhaust, and wind. He is free on the road, free with the air, Sweating with the high sun, shivering in the night breeze And choking with it all. Metal and glass roaring by, pushing him aside, Machines breathing his air and throwing it back at him Black and hot, Eyes burning, and lungs ach ing, he is free, And choking with it all.

Bill Neffles

Words about Suns

Church and Shadow

One winter afternoon I walked home. West it was, Into the sun. The sun was burning out It burnt cold. Without flame But still it threw Its last faint echoheat For across Bluewriter sky And warmed my face. The saffron sun for me. Cold, but warm. West it was Low in the west.

In our town they've built a church Of sparkling, gleaming stone. Great and white and clean and bright, It looks like God's own throne. Men and women come to pray With humble, awe filled air. Priests and bishops say the mass For those who gather there.

We worship this great white church, The worlds of men, at least. "Hallelujah! Praise to God!" A home for humble priests.


From the great shower Cast by the great church.

Bob Chew
Two leagues formed 
its volleyball teams are divided into two leagues. The championship will be decided on April 29 when the top two teams in each league meet in playoff games. Current standings are:

**FIRST LEAGUE**

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**SECOND LEAGUE**

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<td>Tipp</td>
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<td>Circle K</td>
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<td>Snoopy's Squadron</td>
<td>1</td>
<td>3</td>
<td>0.33</td>
</tr>
<tr>
<td>Facuity</td>
<td>0</td>
<td>4</td>
<td>0.00</td>
</tr>
</tbody>
</table>

In Africa the natives beat the ground with clubs and utter blood-curdling yells. Anthropologists call this primitive expression. I suppose that's what it is, even if you divide it up into 18 holes.

Jim Leifer and Gary Carlson watch the birdie. Both were rated honorable mention All-Conference for their fine playing.

Montana Tech's Jim Leifer and Gary Carlson were named honorable mention All-Conference at the winter meeting of the Frontier Conference. The meeting was held in Bozeman on Friday, March 15.

Leading the balloting were Arnie Anderson of Carroll College, and Gary Carlson were named honorable mention All-Conference at the winter meeting of the Frontier Conference. The meeting was held in Bozeman on Friday, March 15.

The championship will be decided on April 29 when the top two teams in each league meet in playoff games. Current standings are:

<table>
<thead>
<tr>
<th>Team</th>
<th>W</th>
<th>L</th>
<th>W/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineers III</td>
<td>2</td>
<td>1</td>
<td>2.00</td>
</tr>
<tr>
<td>Tapakegrew</td>
<td>3</td>
<td>1</td>
<td>3.00</td>
</tr>
<tr>
<td>Theta Tau</td>
<td>2</td>
<td>1</td>
<td>2.00</td>
</tr>
<tr>
<td>Broomchick Bommers</td>
<td>1</td>
<td>1</td>
<td>1.00</td>
</tr>
<tr>
<td>Menomin Bommers</td>
<td>1</td>
<td>2</td>
<td>0.50</td>
</tr>
<tr>
<td>Gobo</td>
<td>1</td>
<td>3</td>
<td>0.33</td>
</tr>
</tbody>
</table>

Rounding off the first team were John Susie, Wally O'Connell, Dan McVeigh, Mike Marinovich, Phil Nichols, Ron Verbeck, Tom Williams, Bud McEnany, Bill George, Mike Corak, Ron Duran, Bill Freeman, Gary O'Farrell, Gary Vorovsky, John Colbepp, Jack Humphrey, Jim Werner, and Mike McLaughlin.

First round of the singles tournament got under way recently with the following men having won their first games: Ock, O'Farrell, Kavan, Hartse, Wing, McCaffery, R. McLaughlin, Martin, M. McLaughlin, and Bartels.

First round games which have not been played yet will pair: Lee vs. Sutey; Blair vs. Angove; Nicholls vs. Corak; Wallace vs. Dobbs; Voce vs. Kloebucar; Lester vs. Dally; and Cavanaugh vs. Moriarity.

The first round of the singles must be played by March 29, second round by April 19, third by April 26, and fourth by May 6 and the championship should be decided by May 13.

"Why is it no one sleeps in O'clock math lectures?" "I dunno." "Because they are all sleeping at home."