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Associated Students of the Montana School of Mines

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MASQUERS TO MATCH-MAKE

B. Hall Weds; Senator Helps

It took an Act of Congress, but Robert Lewis Hall will be able to marry his true love after all.

Hall was born in Victor, lived in Deer Lodge, and received his degree in Mining Engineering in 1958 at Montana School of Mines, Butte. While serving with the Army in Korea in 1956 he met Pak Jae Seun, who was born in Japan and now is a citizen of Korea. They wanted to marry, but Miss Pak was only 19 and her mother would not consent. So Bob came home and took a job with Foote Mineral Co. in King's Mountain, N.C.

Miss Pak, now 22, applied for a visa to come to this country to marry Bob. But the quota was so oversubscribed "as to make visa issuance to any applicant even within the course of his or her lifetime problematical," in the words of the American Consul at Seoul. By this time Hall had asked Sen. Murray for help. Murray introduced a bill which would give her a non-quota visa to come to this country to marry Bob. Murray gave Chairman Eastland of the Judiciary Committee, to which the bill was referred, his own endorsement plus the high praise for Miss Pak which American officers in Korea had for her character, personality, and work as an interpreter-translator. The bill moved quickly through the Senate, and was guided through the House by another Bitterroot native, Rep. Lee

Mines Campus Unmoved by Quake

Information was secured from Dr. Nile and Mr. Denny concerning any damage done to the campus due to the earthquake which struck this region last summer. Dr. Nile said that he has just returned from the field and has not had sufficient time to investigate any damage. However, he said that at a meeting of the State Board of Education the only damage reported was from Montana State College at Bozeman. The damage done there was confined to an old building called Montana Hall. The estimated damage to the hall was about \$6000.

Mr. Denny, campus foreman, stated that the stack on the Metallurgy building on the Mines campus was checked and there was no damage to report. The quake in 1925 caused considerable damage to the stack. Also a check of the Metallurgy building was made, but the only damage in the building was confined to the chemistry storeroom. Several containers with chemical compounds in them fell from the shelves into the aisle. When Mr. Denny arrived after the quake, he found all the chemicals smoldering on the floor. Other than the storeroom, no further loss has been reported.

Metcalf, who had introduced a companion bill. Tuesday the Senator's bill was cleared for the President's signature.



Preview of Wilder's MATCHMAKER to be shown at MSM Auditorium on October 20.

MSU To Entertain MSM

How to transform a 19-year-old beauty queen into a 60-year-old woman or how to devise four complete stage settings to fit into a half dozen different sized stages as well as into a ton-and-a-half truck are only two of the many problems which had to be faced by the touring Montana State University Masquers before bringing their production of the comedy, "The Matchmaker," to Montana School of Mines at 8:00 p.m., October 20, in Library-Museum Hall.

Initially the problems were those of Firman H. Brown, Jr., director of the play and chairman of the Department of Drama at the University, but they ultimately involve the other members of his staff and the entire student cast of the play who must help solve them.

The problem of aging a beauty—in this case Patricia Shaw, Miss MSU and runner-up in the Miss Montana contest last spring—is a normal theater problem involving makeup and direction, according to Brown. In fact few of the cast play their own ages and all must be dressed in costumes appropriate to mid-nineteenth century.

A much more difficult problem to solve was that of adapting "The Matchmaker" sets to the various sized stages on which the company will play while on tour. The sets must depict the nineteenth century interiors of two different houses, a hat shop and a restaurant; but what further complicated the technical problems of the play, according to its director, was the necessity to convert the set originally designed for the Masquer's smaller arena-type theater, on the MSU campus, in which the audience views the performance from two sides, to fit a conventional proscenium arch stage.

In addition large set pieces such as the hat shop work table and wardrobe which were no problem when the production remained in one theater had to be rebuilt to make them easily portable in the Masquer's truck. These set pieces and the original settings were designed by Joe Zender for the Masquer Summer Theater and have since been adapted by Richard Henry James of the MSU Drama faculty.

While on tour the cast will put up the set, shift it during the scene changes and take it down and pack it on the truck for the next day's performance. The cast, which is made up of students from a number of different departments at the University, has had an unusual opportunity to polish its performance in "The Matchmaker." Ordinarily a university performance covers three consecutive days, but "The Matchmaker" was presented for six performances during the summer theater season and for an additional ten days at the opening of the University this fall. On this, the sixth annual tour and the fifty-fifth season for the Masquers, the play will be performed in Libby, Sunburst, Big Sandy, Butte, and Bozeman. The cast, according to Brown, is enthusiastic about touring and look upon the problems and peculiarities of such an experience as challenging rather than difficult.

Enrollment Up

The enrollment at the School of Mines is up about 12 per cent over that of last year. The Registrar's office enrolled 311 students this year in comparison with 284 in 1958.

Although there are some transfer students, the increased enrollment is mostly because of the high enrollment of freshmen students.

Registration will continue until October 9 to accommodate students who may be working or in military service.

Meeting Wanted; Advisor Needed

The Anderson-Carlisle Technical Society is a Student Chapter and is affiliated with the American Institute of Mining and Metallurgical Engineers. The society was named for two School of Mines students who lost their lives in World War I. There are three branches of the society: mining, metallurgy, and petroleum, but the meetings are open to all members, regardless of their field of engineering.

During the year various speakers will address the society members to give them information concerning their particular field of engineering. However, there has not been any definite date set for the first meeting this fall. The reason for this is that there has not yet been an advisor assigned to the society. When an advisor is secured, plans will be arranged for a meeting in the near future.

Mines Faculty NDRC Conferees

The second National Defense Resources Conference to be held in Butte, was presented by the Industrial College of the Armed Forces at the Finlen Hotel October 5 through 16. The conference was sponsored by the Montana Standard-Butte Daily Post, the Montana School of Mines, Butte Chamber of Commerce, Sixth Army, Thirteenth Naval District, and Fourth Air Force. Dr. E. G. Koch, president of MSM, served on the Civilian Selection Committee.

MSM members attending the conference were Dr. Koch, W. C. Laity, D. C. McAuliffe, D. W. McGlashan, K. N. McLeod, R. N. Pugh, Mrs. George Sarsfield, W. A. Vine, D. E. Pinckney, W. M. Brown, and F. H. Kelly. W. S. March, Jr., represented the Montana Bureau of Mines and Geology.

Earth-Shaking Colonel To Quake Before ASSM

Lieutenant Colonel Walter W. Hagrefe, army engineer in charge of the earth-moving project on the dam at Quake Lake, will speak at a special convocation on October 22, in Library-Museum Hall. The public is invited to attend. The time will be 8:00 p.m.

Workers Race Weather To Complete \$250,000 Structure Before May 1

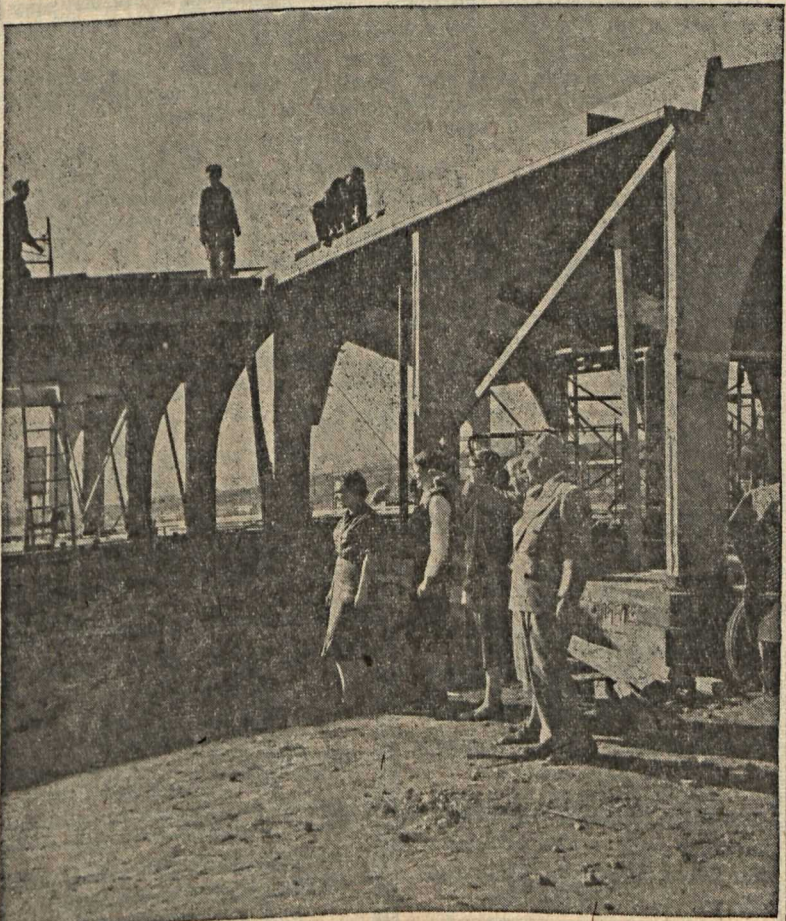
Montana School of Mines' first Student Union Building is fast becoming a reality as construction workers press to beat the approaching winter weather and a May, 1960, contract deadline.

According to the foreman of the Taylor-McDonnell Const. Co., general contractors for the building, the structure should be ready to move into some time in April of 1960, but that ultimately the completion date will be decided by the weather. At present, the Student Union Building is approximately one-third completed with the roof and foundation in place and work on the walls and floor in progress. Construction was begun on July 15 of last summer.

In its final appearance, the Student Union Building will be a brick and steel structure with ceramic tile facings, large picture windows and modernistic lines. On the lower floor will be located rooms for the school publications, reading, games, and dark room work. Also, a book store and complete living quarters for the custodian of the building will be placed on the first floor. The upper level will house the lounge—which will be used for meetings, dancing, and lectures—along with three meeting rooms for campus organizations, and a canteen.

The building program, which was approved by the Montana State Board of Education and Associated Students of MSM last year, is being financed by a government

Housing and Home Finance Agency loan and will cost approximately \$250,000. This loan will take forty years to pay off by means of a building fee assessment of \$5.00 per student per semester.



Mary Ann Becker, Billie Castellano, Janet Richardson, Sandi Mannix, and President E. G. Koch viewing the new Student Union Building.

The Amplifier

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EDITORIAL

ABOUT THIS PAPER

In General . . .

This paper is devoted to informing and entertaining you, the student. It has no other purpose.

When?

Look for the Amplifier every other week, most likely on Thursday.

Why?

First, your name might be in it. Second, your picture might be in it. And if those are not reasons enough, consider the possibility that some piece of news of importance to you might be located among these pages. Still not interested? Then assume a relaxed position and try reading it for entertainment. For whatever your motive, read the Amplifier.

What to Expect

With a publication date of once every two weeks, we are confronted by a large problem—that of stale news. No one is particularly interested in the ball games or club meetings of two weeks ago; therefore, look for condensed articles on events more than one week old. Only on events of immediate or future interest will this paper report in detail.

Look for changes in the Amplifier's composition, changes that will make it more streamlined, more modern and more interesting. Also, look for changes in its content. Expect more columns investigating student opinion to frequent these pages, along with more personalities in the news. Look for the Amplifier to become a mirror of the people, events and opinions

which combine to make up the character and personality of the School of Mines.

A Special Page

The Amplifier's editorial page is going to be "special." That is, unlike most college editorial pages, we are not going to waste space in bringing you droll announcements of National Fire Prevention Week, or "Hey, kids" type of editorials, while passing over the important topics. Instead, expect the Amplifier's editorials to be controversial articles written on controversial subjects of concern to the student body. These editorials will often times be critical and we, in return, expect to be criticized. And this, in effect, fulfills the editorial writer's goal. By placing a point of discussion before the readers in such a manner that it is openly and publicly discussed and criticized is all that any editorial can hope to accomplish.

An Invitation

You are invited to place your opinions on the Amplifier's editorial page. To do so, merely write your statement and send it or give it to someone on the Amplifier staff. The Amplifier's office is located in room 5 of Main Hall. Your views will be published, without alteration, in the following issue. However, to protect ourselves from libel suits, we will accept only signed statements, but will withhold the author's name from the published form, if requested.

And remember, although the rest of the paper is news, this page is reserved for opinion.

—Allan Herring

We Ain't Got No Rally Squad

And, indeed, Montana School of Mines doesn't need one. Not one of the organized kind anyway.

Last year, four of the Mines' co-eds organized themselves into a rally squad, bought uniforms and practiced—with disastrous results. Their efforts to whip up a little enthusiasm at the year's first football game didn't stand, as the saying goes, a snowball's chance in—well, you know. The girls embarrassingly hung up their uniforms for the remainder of the football season. For the first basketball game, they courageously attempted once again to coax a few yells from the Miners. After that game they hung up their uniforms for good.

Indeed, little or no cheering was heard at a Mines' athletic event until a couple of engineering students named Bill Painter and Dick Roberts donned their work clothes, hard hats, and slide rules for the Mines-Carroll game. With the help of a tin-can band, Painter and Rob-

erts led the fans in a series of unorganized, unrehearsed, and quite unexpected yells. The results were the following: everybody yelled, everybody had fun, and the Mines won the game.

From last year's experience the co-eds have learned their lesson. This year they aren't even attempting to form an organized rally squad.

Have the engineers learned their lesson?

Here's the formula, men. For the yells, Mix a bunch of Miners, a lot of raw enthusiasm, and no practice. For a little music and a lot of noise, mix a few more Miners, various cans, sticks, and musical instruments, and more no practice.

Since this is an engineering school with an engineer's team, we'd like to see the engineers leading the engineers' yells with an engineers' band in support. All quite informal, of course.

Oh yes, if any of you twelve co-eds or 55 general students would care to join the engineers, feel free. After all, the Bill of Rights and the Supreme Court don't allow discrimination in the schools.

Platter Chatter with RICK VAN KOPR

Music trends this week seem to be on the change and there still seems to be some doubt in my mind if this means rock 'n roll is on its way out. The trend seems to be on the old songs with a new beat, like "In the Mood," No. 26 tune by Ernie Fields. This seems to be more popular with the campus crowd anyway. Some of the old tunes that are kookie with the campus crowd are "Tennessee Waltz" by Bobbie Comstack, and "Pretend" by Carl Mann. A few weeks ago we brought Eddie Cochran, liberty recording star and holder of five gold records, to Butte. He had with him Jim Stivers and his Hollywood Swingers. As of now no new talent has been booked by KOPR. Chan Romero's new record "I Don't Care," is looking very good. Chan has been to Butte on two occasions. The Dick Clark caravan is on the road at the present time, with a terrific line-up of new stars including Frankie Avalon and Sal Mineo, and many other gold record holders. It looks like they will be passing up Butte due to the present economical situation. Bobby Darin's "Mack the Knife," is still holding its No. 1 spot on the Nifty Fifty, and looks like it will stick around for a while.

So until next issue, see you boo boo.

ODE TO A LAB REPORT

When I grow old and even older,
 I'll never forget that manilla folder,
 Bane of existence, object of hate
 And never less than three weeks late.
 Title, object, method, theory,
 The clock strikes one, my eyes are bleary.
 If I could have my preference
 I'd never write a reference,
 Never compute efficiency
 For readings numbering eighty-three,
 But many like that, I have done,
 At least infinity plus one,
 Many to tell the dullest dullard
 That graphs are labeled and curves are colored.
 Engineers Arise—storm the fort;
 And abolish forever the lab report.

The approach of baseball's training season has southern small fry out getting into shape right along with the major leaguers. The other night, a Tampa, Florida, father got home just in time to see his son out in their yard with a bat and ball.

"Hey, Dad, watch!" was the boy's eager cry.

He threw the ball into the air. There was a terrific whiff—and a miss.

"Wait, Dad—watch this one," cried the boy, again throwing the ball up. For the second time he swung and missed.

"Here's the one, Dad," he called out. Again he threw the ball and missed.

"Three strikes — and out!" he shouted happily. "Gee, Dad, ain't I a great pitcher?"

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- 17—Football
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- 20—Missoula Players
 Museum Hall—8:00 p.m.
- 24—Football
 Western at Mines

Long, Sleek . . . And Costly

—James R. Vercella

Restyled or customized cars fall into three basic categories, which correspond to the classes used in custom car shows. They are moderate, semi, and full, customs.

Moderate restyling includes a few accessories, or removals, lowering, some work on the hood and deck and usually paint striping.

In addition to the items already mentioned, a semi includes restyling the headlights, taillights and grills, usually by molding, tunneling, and/or Frenching. Usually the semi is topped off with a multi-lacquer paint job. The semi runs from \$300 to \$1000 depending on how many of the above items are included.

A full custom calls for major alterations to the front and rear sheet metal and possibly such radical lowering methods as chopping (cutting a horizontal section out of the windshield posts and window pillars to lower the top), or channeling (cutting a channel out of the bottom of the body so it will drop over the frame). The interior may be redone from rugs to roof and the paint job is usually elaborate. A full custom costs anywhere from \$1500 on up.

Customizing can be taken in step by step procedure. It does not have to be done all at once. In the following run-down of the most popular ways to restyle a car, the step by step procedure is used.

Accessories offer the biggest change for the least money, and therefore are the most popular form of customizing. Restyling usually begins by installing lowering blocks in the rear and the lowering of the front end by one of several methods now in practice. After this procedure has been accomplished, new hubcaps are usually added along with spotlights, dual antennas and twin side mirrors.

Hoods and decks are the jumping off spot for the actual restyling job. The procedure is to remove all ornaments, chrome, emblems, license plate holders and so forth, which tend to clutter up the surface. The holes which are left may be leaded or filled with some type of plastic. The deck is allowed to keep the resulting clean appearance, but the hood may be moulded to include air scoops.

Restyling bumpers is usually of reworking what is on the car or adapting different bumpers to fit. The most common practice is to route the exhaust tips out through the bumper or bumper guards. An exhaust alternative is a pair of exposed pipes running along the outside bottom edge of the body.

Headlight restyling is one of the most difficult jobs because state

laws limit the location of headlights and in many cases limit their number. Most customizers simply settle for the "latest look."

The cheapest way to achieve this look is with accessory rims. If one wants to take the time and trouble, the customizer may French (seal in the stock rims) the headlights.

Taillights offer the customizer much more freedom but here again he bumps into various state laws. Consequently, nearly 100 per cent of all restyled taillights use stock lenses.

For those who want to be different but have a limited amount of money the grille offers opportunities for do-it-yourself customizing. Sometimes the removal of a single component will help the owner achieve the desired individuality. Frequently, the only tools needed are screwdriver and pliers.

The wide metal areas of today's slab-sided cars are one place where the customizer has complete freedom. After taking off the chrome, he might put some of it back to rearrange body lines or divide the car for two, or three-tone painting. Rearrangement of body lines may also be accomplished by using chrome strips from other cars or strips of original design.

The customizer is now in a position to select a paint job suited to his tastes and wallet. He can have his choice of a one, two, or three-tone finish in solid color, metallic, or pearlescent enamels or lacquers.

Often the car being done over is new and the only customizing needed inside is a set of clear plastic seat covers. On the other hand, the interior may be done over with different degrees of luxury and individualism.

Customizing is a great deal of hard, time consuming work, but the satisfaction and sense of pride it gives the customizer is ample reward for a job well done.

"Professor," said the engineer in search of knowledge, "will you try to explain to me the theory of limits?"

"Well, John, assume that you have called on a pretty woman. You are seated at one end of the divan and she is seated at the other. You move halfway toward her. Then you move half of the remaining distance toward her. Again you reduce the distance separating you from her by 50 per cent. Continue this for some time. Theoretically, you will never reach the girl. On the other hand, you will soon get close enough to her for practical purposes."

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COACH ED SIMONICH AND LETTERMEN POSE IN THE SNOW. Kneeling, left to right, are Coach Ed Simonich, Jerry Blake, Bill Tiddy, Brad Bilyeu, Kelley Hemmert and Dan McCarthy. Standing, left to right, are Mike Keegan, Mike Hines, Dave Del Paggio, Pete Atkinson and Cam Brown.

NEW MEMBERS OF THE OREDIGGERS. Front row, left to right, are Ray Goldsworthy, Jeff Vichorek, Larry Judd, John Burk, and Ed Skubitz. Back row, left to right, are Stan Bosch, Ray Kotow, Jack Walsh, Wally Johnson, Ron Kendall and Gay Kravik.

Miners to Play At Home

On October 24, at 1:30 p.m., the School of Mines will meet Western Montana of Dillon in the Naranche Memorial Stadium for their first home game of the 1959 season.

The School of Mines will be the underdogs, but this high spirited, well coached team will give any team in the conference an interesting afternoon of football. Everyone in the school should be at this game to give our team some well deserved backing.

After the Northern game, Coach Ed Simonich said, "The student body, the faculty and the school as a whole should be very proud of the boys who are playing football this year."

Theta Tau

The first two meetings of the Theta Tau Fraternity were concerned primarily with the rushing of new members.

The governing body of Theta Tau for the following semester are:

- Harvey J. Hannah Regent
- Dave Cushing Vice Regent
- Jim Thompson Scribe
- Dick Vincelette Treasurer
- Doug Wadman Corresponding Secretary

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OREDIGGERS WIN — NEARLY

Northern Montana defeated the School of Mines in the last minute of play in Havre last Saturday night. Northern scored in the last 55 seconds of play on a Mines fumble to defeat the Orediggers by a score of 12-7.

Northern ended both halves with a definite stroke of luck. Their first score came on the last play of the first half. A 21-yard pass from Quarterback Bill Peterson to end Les Cobell tallied the Lights' first score as the gun went off to end the first half.

A determined Mines team came back in the third period, led by hard running Kelly Hemmert and Stan Bosch, to score what looked like the game winning touchdown. Hemmert scored from the 1-yard line and kicked the extra point to give the Miners a 7-6 lead.

With just 55 seconds remaining in the game the Mines fumbled on the 50-yard line. From there they were penalized for pass interference, which put the ball deep in Mines territory. Seconds later quarterback Peterson went over from the 1-yard line to give Northern the victory and the Mines a heartbreaking defeat.

Last year the Miners lost all their conference games and failed

to score a touchdown. This year's team, however, appears to be stronger and sturdier. The Orediggers play hard and aggressive football which reflects credit to themselves and to Coach Simonich, who has brought a young team a long way in a short time.

Mines Lineup:

Pete Atkinson	.....	L. E.
Mike Keegan	.....	L. T.
Brad Bilyeu	.....	L. G.
Bill Tiddy	.....	C
Jerry Blake	.....	R. G.
Jack Walsh	.....	R. T.
Mike Hines	.....	R. E.
Dave Del Paggio	.....	Q. B.
Keley Hemmert	.....	L. H. B.
Stan Bosch	.....	R. H. B.
Cam Brown	.....	F. B.

Score by Periods:

MINES	.....	0	0	7	0
NORTHERN	.....	0	6	0	6

Scoring: Mines touchdowns — Hemmert; point after touchdown, Hemmert. Northern—Peterson-Cobell pass; Peterson, 1-yard run.



KELLY HEMMERT, senior member and captain of the team, the man who broke the scoring jinx!

HOW TO KILL PROGRESS

- "It isn't in the Budget."
- "It's too radical a change."
- "We don't have the time."
- "We're too small for it."
- "We've never done it before."
- "You're two years ahead of your time."
- "Why change it? It's still working OK."
- "We're not ready for that."
- "Can't teach an old dog new tricks."
- "We did allright without it."
- "Let's shelve it for the time being."
- "Let's form a committee."
- "Has anyone else tried it?"
- "It's against our policy."

The total cash value of a college degree has been estimated by D. C. Jusephs, chairman of the President's Committee on Education Beyond the High School, to be \$100,000.

The men in the nudist colony were all giving the eye to the shapely new entrant. One turned to the fellow next to him and said, "saaay! I bet she'd sure look good n a sweater!"

LITTLE MAN ON CAMPUS

THE FOOTBALL COACH
RAH! RAH! COACH!
AS SEEN BY: -- HIMSELF -- -- THE (M) ALUMS (M) --
THE STUDENT BODY --- THE TEAM --- THE FACULTY

A small boy was leading a donkey past a fraternity house. The students attempted to have a bit of fun with the lad.

"Why do you hold your brother so tight?" one asked.

The boy smiled and answered: "So that he won't join a fraternity."

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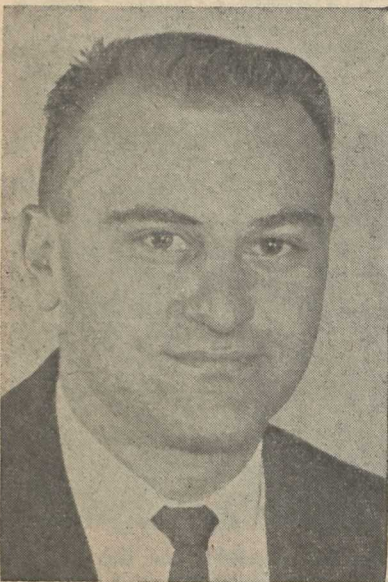
Know Butte . . .
FAMED MISSOULA LODE
The Missoula Mining Company made the first mining location in Silver Bow County. According to records the location was named after the mining company.
The first location notice was very simple. It read: "The Missoula Mining Company did on July 18, 1864, locate a claim in Summit Valley District, Deer Lodge County."
Then followed the 19 names, each claiming 200 feet east and west along the vein, the width of which was not given.
The second location on record was made by William J. Lawson. The mine, he said in his location notice, "was discovered about 250 or 300 yards west of Silver Bow Creek, and about one and one-half miles northeast of the recorder's office in the Summit Valley Mining District." That made the mine difficult to locate in later years—because the recorder's office moved many times from '64 to the '80s.
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Anaconda—310 East Park
Dillon—Center and Idaho

MSM Faculty Adds Five



JOSEPH CHELINI

A welcome addition to the Montana Bureau of Mines and Geology is Mr. Joseph Chelini of 2222 Wall Street.

Mr. Chelini at present is studying for his Master's degree on a part-time basis. This, coupled with his position with the Bureau of Mines and Geology, makes for a full day for Mr. Chelini, allowing him little time for his favorite pastime of skeet and trap shooting.

Mr. Chelini's military service was as a flight engineer with the United States Air Force. He served from January 1951 to December 1954.

Prior to his employment as a geologist with the Bureau of Mines and Geology, Mr. Chelini had been employed by the Anaconda Company from March 1949 to August 1949. Later he worked for the Morrison-Knudson Construction Company in Alaska and after that as a locomotive fireman for the Northern Pacific Railway Company.

Mr. Chelini's family consists of his wife and daughter who reside at the above address.

Another new faculty member this fall at the Mines is Mr. William Catenaro. Mr. Catenaro received his Bachelor's degree in Mathematics from West Virginia Institute of Technology in 1935, and his Master's degree in the same field from the University of Pittsburgh in 1947. Also, he has subsequently attended the University of Oklahoma, Norman, Oklahoma, and the University of Cincinnati.

He has taught at the Masontown, Pennsylvania, and the Oak Hill, West Virginia, high school be-



WILLIAM CATENARO

tween 1936 and 1944. From 1944 to 1947 he was an instructor at University School, Pittsburgh, and later at the University of Oklahoma. Mr. Catenaro was also head of the Mathematical Department in Marion High School, Marion, Ohio. From 1954 to 1959, he headed the Mathematical Department at the Northern Kentucky High School at Erlanger, Kentucky.

Mr. Catenaro is a member of Pi Mu Epsilon (honorary mathematic fraternity), the American Association of University Professors, and the American Mathematics Society.

Dr. Vernon Griffiths has joined the faculty of Montana School of Mines as associate professor and head of the Department of Metallurgy.

Dr. Griffiths, a citizen of the United Kingdom, was born in Treorchy, Wales. He comes to Montana School of Mines from Vancouver, British Columbia, where he was a research associate in the Department of Metallurgy at the University of British Columbia.

He was graduated from the University of Wales, Swansea College in 1949 and two years later received his Master's Degree in metallurgy from the same institution. In 1955 he was granted a Doctor in Science degree from Massachusetts Institute of Technology, and subsequently supervised research at the Sherritt Gordon Mines until 1957. The same year he went to the University of British Columbia.

During the summers he has worked for the Atomic Energy Research Dept., Colville's Clydebridge Steelworks, Cambuslang Ironworks, and I. C. I. Metals Ltd.

Dr. Griffiths holds membership in the American Institute of Mining, Metallurgical and Petroleum Engineers, the Society for Metals, the Institute of Metals and Sigma Xi.



DR. VERNON GRIFFITHS

Mr. Richard Pugh is associate professor and Head of the Department of Mechanics and Electricity. He received a Bachelor of Arts degree from the State University of Iowa in 1941 and two years later received a Bachelor of Science degree in General Engineering from the same institution.

Mr. Pugh was granted a Master's degree in Mechanical Engineering from the University of Rochester, Rochester, New York, in 1949. He has also studied at the University of Michigan at Ann Arbor.

From 1943 to 1945 he was employed as a stress analyst for Convair Aircraft Company at Fort Worth, Texas. He subsequently taught at the New Mexico School of Mines, Socorro, at the University of Rochester, and at the New Mexico College of Agriculture and Mechanical Arts at State College, New Mexico.

In 1953, Mr. Pugh joined Cherry-Burrell Corporation in Cedar Rapids, Iowa, as an engineer. Two years later he joined Collins Radio Company in Cedar Rapids from which position he comes to Montana School of Mines.

Mr. Pugh is a member of the American Society for Metals and was chairman of the Cedar Rapids Chapter in 1957-58.

In an interview with Bob Laughlin of the Amplifier staff, Mr. Pugh stated that he plans to continue teaching and, whenever possible, to advance his own education. He is not an ardent or enthusiastic fan as far as sports are concerned, and if he chooses a hobby, it probably will be photography.

Mr. Pugh's last project before coming to MSM was work on the Aerodyne, a new type of airplane, which is discussed in the October 5, 1959, Newsweek, page 56.



RICHARD PUGH

Francis M. Young of Butte has joined the faculty of Montana School of Mines as an instructor in the Department of Mechanics and Electricity.

Mr. Young was graduated from Montana School of Mines in 1950 with the degree of Bachelor of Science in Geological Engineering. During 1950 and part of 1951 he worked as a sampler with the Anaconda Company.

In 1951 he was advanced to Mines Geologist and it is from this position that he comes to Montana School of Mines.

He is a member of the American Institute of Mining, Metallurgical and Petroleum Engineers, the National Society of Professional Engineers, the Montana Society of Engineers, of which he is now the Secretary, the Butte Mineral Gem Club and the Elks.

With Forbes Robertson, formerly of the Department of Geology at Montana School of Mines, Mr. Young co-authored a paper, "Zeo-lites of the Divide—Dewey Contact of the Boulder Batholith."

Mr. Young served with the United States Army during World War II.

He resides at 825 Evans with his wife and two daughters.

In an interview with Bob Laughlin, Mr. Young mentioned his hobbies as being rock and gem collecting, which tie in closely with his education. Additional interest in the line of hobbies is the playing of an occasional game of chess.

Mr. Young plans to continue teaching until he achieves a Master's degree, followed by a Doctor's degree in Geology. Upon achieving these goals, he will devote his teaching ability to Geology. He is an enthusiastic sports fan to the extent of staying abreast of the times in the larger college football proceedings.

An interesting sidelight concerning Mr. Young is that one of the example outline forms, being shown Juniors to help in their English 41, Technical Writing course, was written by him during his college days at MSM.



FRANCIS M. YOUNG

Placement Office

Schedule of Interviews for October, 1959. Following is name of company and representative, person in charge of interview and place of interview:

October 21 (afternoon only)—The Carter Oil Company, Mr. L. M. Lyon and Mr. B. T. Johnson; Prof. Harnish; Petroleum Room 206. Senior and graduate students majoring in petroleum, mining, and geological engineering.

October 22—Schlumberger Well Surv., Mr. George Ellis; Prof. Harnish; Petroleum Room 206. Senior and graduate petroleum and geological engineers.

October 28—Guy F. Atkinson Company—Contractors and Engineers, Mr. J. A. Ferren; Dr. Earll; Main Hall Room 213. Senior and graduate mining and geological engineers.

Geology Field Camp

This year's geology field camp was held at the Rainbow Ranch in the Upper Gallatin Valley, some forty-five miles south of Bozeman on U. S. Highway 191.

The camp lasted six weeks and two courses were offered. One course was six weeks long and was for geological engineers only. The other course lasted three weeks and was for mining and petroleum engineers.

The camp was supervised by Prof. Willard Cox with the able assistance of Mr. Kenneth Fox, a graduate student in geology. Dr. Earll and Mr. Hall both aided in the field camp instruction during portions of the six week session.

Each course was generally divided into three parts. The first part dealt with brunton-pace traverses and geologic section measuring. The second portion consisted of the topographic and geologic mapping of a prescribed area with plane tables and alidades. The third

part of the course was concerned with photogeologic mapping methods.

The camp started off with quite a rumble in August, namely, with the Hebgen Dam earthquake. The geologists were fortunate to see geologic faulting and the results of modern natural earth disturbances since the earthquake center was fairly close to Rainbow Ranch. (It is rumored that the Geology Department has a volcano planned for next year's field camp.)

Some other side trips to observe geology were made to Yellowstone Mine, the Cinnamon Mountain Park, the Karst Camp Asbestos Ranger Station, and nearby Ousel Falls.

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