11-22-1961

The Amplifier - v. 8, no. 3

Associated Students of the Montana School of Mines

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Faces. Streaming potential techniques have provided an accurate Grupps in systems involving intervention of the Asphalt Institute. McGlashan. Electrokinetic measurements held recently at Moscow, as were twenty people from Projects were developed, probably several “cerr-bolvav” problems are for a degree in Architecture. This hired to work for United States degree in Mining Engineering: graduated two years later with a returned to the Mines in 1946, to the Pretense of gaining background in 1943 he went into active duty. He returned to the school for work in Petroleum Engineering, under the supervision of the Asphalt Institute. After spending six or eight months touring Europe, Mr. Burns returned to Montana last Christmas.

R. L. BURNS
Mr. Burns came back to the states and enrolled at Stanford University to earn a Masters Degree. After graduation he worked for Mining World Magazine as a field editor in Mexico, Canada, and in the U. S. South of the Great Lakes. After two years of this work, he went to work for the Asphalt Institute in 1954, he was sent to Pakistan for Washington University as a visiting professor of mining engineering. At the University of Pakistan, Lahore, Pakistan, he started the Department of Mining Engineering, under the foreign aid program. Mr. Burns arranged for ten students to come to the United States, five of whom were sent to MSM.

After spending six or eight months touring Europe, Mr. Burns returned to Montana last Christmas. At the present time he is studying mineral dressing to better equip himself for the possible re-opening of gold and silver mines in Baneford and Blue Wing, the two oldest mining districts in Montana.

McGlashan Visits Moscow
Professor Donald McGlashan, Head of Department of Mineral Engineering, Moscow State University, held recently at Moscow, where he was invited to speak by the Asphalt Institute, in conjunction with the meeting of the Moscow Meeting Department, College of Engineering, University of Idaho. Approximately 200 Highway Engineers and Constructors were present as well as producers of building materials. This was the first formal visit by a member of the faculty of the Department of the Asphalt Institute.

Electric-Kinetic Properties of Asphalt and Asphalt was the title of the speech made by Professor McGlashan. Electric-Kinetic instruments, McGlashan explained, have demonstrated their usefulness in studies of the behavior of discrete particles, ion, and functional groups in systems involving interfaces. Streaming potential techniques have proved to be a useful and reliable method for determining electric-kinetic potential for highway aggregates in water solution. Electro- phoresis has been employed to de- termine the natural sign and magnitude of doublets of emulsified bitumen. Possibly the charge magnitude has a direct bearing upon the re- activity of asphalt emulsions with mineral solids. It is logical to esti- mate the surface area of asphalts and aggregates. Such research will re- quire the further development of experimental techniques and instru- mentation. However, significant information should be obtained that could be transferred to the practical application of asphalt in highway construction.

Coming Events

November
22—Thanksgiving Recess Begins.
23—Lecture by Morgan Griffiths, on Fallout Shelter, 8:00 p.m., Library Museum Building.
December
1—Basketball, U of Alberta, here.
3—Thanksgiving Day Dinner Party.
8—Basketball, Ricks College, there.
9—Naval Examinations.
14—Christmas Dance.
25—Christmas Recess Begins.
January
2—Christmas Recess Ends.
6—Dillon-Mines Basketball, here.

R. L. Burns Back At MSM
Mr. R. L. (Bob) Burns who once graduated from MSM with a degree in Mining Engineering, has returned to the school for work in Mineral Engineering.

Mr. Burns was born in Bozeman, Montana, and graduated from high school in the Flathead. When he en- tered MSM in 1943, he was en- rolled in the U. S. Coast Guard with the pretense of gaining background for a degree in Architecture, which he was soon changed when he became interested in mining. In 1943, Mr. Burns joined the Marines, and in 1945 he went into active duty. He returned to the Mines in 1946, to graduate two years later with a degree in Mining Engineering.

Upon graduation, Mr. Burns was hired to work for United States Steel. Out of the success of a project for which he was hired, five were students from the Montana School of Mines. During this time he went to South America in charge of a surveying exploration project as the result of which several projects were developed, probably the world’s largest developments from one area. When the Korean War began,

Students in the petroleum geology and engineering classes at Montana School of Mines are shown on the drilling floor of the Miss- Wagner Drilling Corp. This is a photo of the drilling rig. The company is one of the largest oil producers in the area. The rig is located in the Deer Lodge basin.

MCN Media Council
Representatives from eight colleges and universities within the State of Montana concluded a two-year experiment in the Media Council in Missoula on November 4 by formalizing their association to promote United Na- tional activities dealing with the United Nations (MCN) de- cided to meet annually and to conduct student election committees of the new chapter.

AIME Membership Skyrockets
After a close check with the office, it was found that 24.4% of the student body belongs to the AIME, and of the 255 engineering students, 34.4% belong to this organization. This probably makes the AIME the largest organization on the campus.

The AIME suffered a loss from their staff: three with campuses on the departure of Dave Robertson for home. Dave was forced to drop out this semester because of a prolonged illness that caused him to be hospitalized for a month. He is now in Filin Flin, Montana recuperating. He hopes to return in February. Dave was the sec- retary of the Anderson-Cadies- Lee Superintendents was elected to fill out the term of office.

All student members who are in- terested in attending the Institute of Mining, Metallurgical and Petroleum Engineers in February 9th Annual Conven- tion, meeting in Spokane on De- cember 25th, and 2nd, are requested to see Professor Stolz. He has the application forms and will be happy to help anyone fill them out. Reports from those who attended the last meeting indicate that this is a once-in-a-lifetime oppor- tunity, surely he be required when next great one gets together. It is desired that all seniors, and those that have attended this meet, discussed at the November 16th meeting was the proposed field trip to Great Falls to view the Metallurgical installations of the AIME Council.

No pass, Paper Will Travel
Dr. Howard C. Hahn, Jr., assistant professor of Engineering, Montana School of Mines, will present paper of paper of the American Institute of Mining, Metallurgical, and Petroleum Engineers in February, 1962, in New York City.

The paper concerning the thermody- namics of oxide solid solutions was co-authored by Dr. Arnold Muan of the metallurgy depart- ment at Pennsylvania State University.
Thanksgiving is described in the dictionary as a day set apart every year to acknowledge God’s favor. Just how many thankful for—well, we could think of it in this respect! Most of us just thankfulness? What other people have more to be thankful for? We have unlimited opportunities. So why shouldn’t we be thankful? And the right to choose our own careers; we have been given the right to an education, the right to worship our God and attend the church of our choice. True, everyone is concerned with his own well-being most of the time but couldn’t we just be a little different one day out of the year? After all we do have so much to be thankful for, according to the dictionary, Thanksgiving is described as this day was set aside to give thanks for everything people have, not just thinking of everything we want. True, everyone is concerned with his own well-being most of the time but couldn’t we just be a little different one day out of the year? After all we do have so much to be thankful for, according to the dictionary, Thanksgiving is described as this day was set aside to give thanks for everything people have, not just thinking of everything we want.

Dear Editor:

In light of the recent football season and the complaints of those on the Faculty team made, there is no doubt about the importance of the game. There is also no doubt about what should be done with the Montana College Conference. The Montana School of Mines should take the necessary steps to make the conference to eliminate professional bias and, if there is no respect for the rules, then make the conference a step forward in the development of the all-school conference.

I. No school in the conference should offer monetary assistance or work in exchange for an athletic scholarship to any student. In fact, the school should adopt a rule that would have the school involved suspended from the conference for the rest of the season.

II. In order that this rule be enforced, there should be a committee formed of one member of each faculty at each school that would inspect the monetary expenditures of the individual schools.

If these rules were enforced and enforced well, I am sure that the picture next year would be quite different. All of the paid men at the other schools; right might decide to ride the pine and get a little play. Then college football, at least in certain parts of Montana would be less where it belongs, professional. The Montana conference campaign ever getting rolling, there will be a hue and cry from the various colleges in the conference that the conference is not getting long enough. Any violations of these rules would have the school involved suspended from the conference for the rest of the season.

Every effort will be made to fulfill your request. The availability of a speaker will depend upon the school and his high schools.

To Secure A Speaker

(Three, Weeks Notice Preferred)

Call (Butte 792-8632), or Write:

Francis M. Young

Montana School of Mines

Butte, Montana

American School of Mines Amplifier

Subscription Rate $1.50 per year

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The editors of the Amplifier wish everyone a Happy Thanksgiving and an enjoyable vacation.
Marlboro... campus favorite in all 50 states!

...It's a top seller at colleges from U.S.C. to Yale
...and 1st in the Flip-Top box in every single state

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Try Marlboro and judge for yourself. On or off campus, you get a lot to like.
The Montana School of Mines Amplifier

Wednesday, November 22, 1961

Team On Banquet

The 1961 Montana School of Mines football team was given a banquet at the Shanty in Butte on November 9. Coach Ed Simonich gave the main address for the evening. After the showing of a movie, the banquet was held.

The biggest event of the past season was the 0-0 tie against Rocky Mountain College. The Mines was definitely suffering after the game from injuries because George Severs, Head Coach, and Joe Kuharich, current Notre Dame coach, said that the Mines have been running about the change in his philosophy to bring his kids to victory in his five years at Montana School of Mines. "I've no doubt a coach can tell what you're after. Victorian a college that seldom gets the bump and jolts they caught playing for an average college. That Simomich can't beat any more than they can quit in life!"

This isn't so good... Coach in America is very near himself a'shout. He said that down the last five years he's been trying different plays and different ways of getting them up each week... but who still wants to play, is all that pure play. However, the recon- ciliation program will be started by the Butte Borewm-y, ,

--Bulletin

Summary of the Year's Play

Along with the excellent team work displayed by the MSM football team this past season there were also outstanding players. A summary of the year's statistics are as follows:

Basketball Schedule—1961-62

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<th>Date</th>
<th>Location</th>
<th>Score</th>
<th>Opponent</th>
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Mines 45-0

As Reported by Mike Hines

The final game of the season was a very liquid affair with the Eastern Yellowjackets of Billings. From the start, Dennis Fisher scored 4 of Eastern's TD's on runs of 74 yards, 60 yards, and a 60-yard pass play from Kinsman.

Mike Mullenley scored 2 touchdowns on runs of 50 yards and a 60-yard pass play from Kinsman.

The Mines was definitely suffer- ing from the changes in the play of the game on the drawers. Dennis Fisher scored on a 60-yard pass play from Kinsman.

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Intramural Basketball

The intramural program will begin in basketball. This year there are the twelve teams participating. Each fraternity here at MSM will have a basketball league with Theta Tau having five and Sigma Phi having three.

Basketball Practice Begins—?

The outlook for the coming 1961-62 basketball season at the mines is very bright. There will be about 5 veteran and 1 junior league, and the nucleus for Coach Simomich's squad this year.

The Worth of Coach Simomich:

The coaching here, says Ed, "is a coaching here. "

The uncertainty of the squad is not definite because there is some ques- tion in this light of returning lettermen and other players. The squad will not be announced until after the Montana Collegiate Conference meeting.

The young couple had a little hard time trying to decide. The bride had been preparing herself for many of the different ways as well as how she knew. On the 12th day the couple still had many other versions of chopped meat. As the husband surveyed it wistfully he said, "How now, ground cow?"

Geology: From the Cree: "Geology and LOGOS—discussion on the earth's crust and the earth's field. Hang-up in the Chute: Trouble that drives miners to drink and to marriage."
Griffiths to Discuss Fallout Shelters

Morgan Griffiths, Butte architect, will discuss "Public Fallout Shelters: A Design Problem" at Montana School of Mines, Wednesday, November 22, at 8 p.m. in the Library-Museum. Admission is free.

Mr. Griffiths has completed a special course on fallout shelters under the United States Government at the University of Washington.

A native of Butte, he attended Montana State College from 1934 to 1939 and then transferred to Montana State College from which he graduated in 1941. He holds a master's degree from the University of Washington in Architecture.

He is a registered architect and member of the American Institute of Architects.

Mr. Griffiths entered the United States Air Force after graduation from Montana State College and served from 1942 to 1948. He has been employed with several architectural firms before locating in Butte.

A COLLEGE GIRL may be poor on history, but is usually great on dates.

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Griffiths discusses fallout shelters.

WILDLIFE CONSERVATION IN MONTANA

Conservation of our wildlife can be assured only by following a plan of harvesting the surplus of certain game animals, such as birds or fish and protecting a suitable habitat for each species to insure continued reproduction. Game laws enacted by our legislature are necessary for this purpose.

The first conservation law pertaining to wildlife in Montana was passed by the Territorial Legislature in 1864-65.

The bill stated that "fishing tackle consisting of a pole, line and hook shall be the only lawful way that spokked mountain trout cannot be caught in any of the streams of the Territory," and that the use of nets or nets not prohibited.

The following highlights of a progress made throughout the years are given in chronological order:

1864-65—First law enacted to conserve fish: Trout to be caught only with hook, line and pole, and not of nets or nets perhibited.

1869—First laws enacted protecting certain big game animals, "bear protected—closed for a season on buffalo, mule deer, sheep, mountain goats, antelope, and hares."

1878—Killing of song birds prohibited.

1879—First closed season on fur bearing animals. First closed season on duck and goose. First law enacted to conserve hunting of illegal game. First laws enacted prohibiting use of explosives to kill fish.

1877—Act making it unlawful to kill game animals for hides alone without using or selling same prohibited. Non-resident license fee prohibited except on private lands. Unlawful to hunt or chase game animals with dogs. Sale of game birds for market purposes prohibited.

1921—First choice of Montana Fish and Game Commission organized.

1954—Resident and non-resident big game licenses sold 181,560 @ $3.00. Resident big game licenses sold 103,075 @ $1.50. Non-resident big game licenses sold 7,585 @ $1.50. Total licenses sold, 191,000 @ $1.50. Total licenses sold, 191,000 @ $1.50.

1891—First law regulating the use of the automobile to kill game: Unlawful to kill or capture game from an automobile. First license required for taking fur-bearing animals. First license required for taking fur-bearing animals.

1911—Fish and Game Commission organized.

1893—First law regulating the use of the automobile to kill game: Unlawful to kill or capture game from an automobile. First license required for taking fur-bearing animals. First license required for taking fur-bearing animals.

1917—Resident hunting and fishing license raised from $1.50 per year to $2.00 per year.

1919—First law regulating the use of the automobile to kill game: Unlawful to kill or capture game from an automobile. First license required for taking fur-bearing animals. First license required for taking fur-bearing animals.

1944—Resident and non-resident big game licenses sold 181,560 @ $3.00. Resident big game licenses sold 103,075 @ $1.50. Non-resident big game licenses sold 7,585 @ $1.50. Total licenses sold, 191,000 @ $1.50. Total licenses sold, 191,000 @ $1.50.

1895—First license for residents required for the taking of game fish. Resident license fee $2.00, one license only per family required.

1905—First license for residents required for the taking of game fish. Resident license fee $2.00, one license only per family required.

1923—First law regulating the use of the automobile to kill game: Unlawful to kill or capture game from an automobile. First license required for taking fur-bearing animals. First license required for taking fur-bearing animals.

1929—Act passed making it unlawful to kill game birds: Certain conditions for taking game birds. Certain conditions for taking game birds. Certain conditions for taking game birds.

1927—Paycheck deductions: Correction, Paycheck deductions:

1931—First law regulating the use of the automobile to kill game: Unlawful to kill or capture game from an automobile. First license required for taking fur-bearing animals. First license required for taking fur-bearing animals.

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Hall Speaks To Geologists

Dr. William R. Hall, assistant professor of Geology at Montana State College, was the speaker at Butte's Rotary Club on Wednesday, September 16. Mr. R. W. Jones, president of the club, welcomed the speaker and introduced him. Hall's topic was the geologic highlights of the Upper Gallatin Valley area. He illustrated his talk with color slides.

Student Wives Hold Dinner

At a meeting on November 8, the Student Wives were entertained by a group of six girls from Girl's Central High School. Also, plans for a Pot-Luck Dinner held November 13 were discussed. The chairman for the dinner was Mrs. Jack Weaver, and another guest was Mrs. Paul Foossey. The idea was presented as a money making project this year, to sell Kathyrn Buelch Candy, which will be available to students at 4 a.m.

Zacca Presents Lecture

On Friday night, November 17, Mr. Erif M. Zacca, a student at Montana State College, gave a talk on Lebanon. Mr. Zacca is from Lebanon and is studying geography and resource of his native country. A film was also shown.

New Books in Library

You've heard the saying "Wake up and read," and there is no time like the present to start. There are several new books on display in the library for any student who wishes to do either research reading or simply recreation. There are new books in various fields of study. These books include physics, geology, chemistry, metallurgy, and other fields of engineering. These are new books on literature, journalism, and history. There are new biographies and autobiographies. There are now new books available in the Mines library on the current best seller list. They are Tai Pan, a novel by Harold, and Harper Lee's novel "To Kill a Mockingbird." Inside Europe Today, by Gunther. Keep your eyes open for other new books which will be coming in during the school year, and look for announcements of the events offered.

Zacca was well attended and the refreshments were served to the students and downtown public who attended. The Old Timer's Club sponsored the event.

Alumni News

George A. Grady, a 1919 graduate of Montana School of Mines, has been appointed to the staff of the Raw Materials Research Laboratory at U. S. Steel's Geneva Works, Provo, Utah, according to the announcement of the University of Montana.

Grady will be research tech- nologist for mineral deposits. His work was done on Butte, Montana, and he was employed as a metallurgist at the U. S. Steel Butte B. A. degree in metallurgical engineering.

He joined U. S. Steel as a manage ment trainee in a similar position until his present appointment.

Mr. Grady resides at 1015 South State, Provo.

Its parents, Mr. and Mrs. Ar thur Grady live at 617 E. Iron Street, Butte.

Debate Team Plans Trip

Debate is once again going strong on the campus of Montana School of Mines. Although there are only four students out for debate this semester, the team is planning an active year.

The students are practicing now for a debate tournament to be held at Carroll College the last week of December. This tournament will include the schools of the Mont ana University System and maybe some other schools. The four members of the Debate team this year are Dave Cadwell, Walter Bank, Janet Roberts and Jean Parker. Mr. Albertson is the advisor of the group.

Mineral Club Makes Field Trip

On Saturday morning, November 14, 11 anxious rockhounds met at the dorm at 8:00 a.m. and then proceeded to the East Ridge on a field trip. Equipped with rock picks, cameras, and lunches the Mineral Club members climbed up the hills near the Columbia Gardens in search for copper minerals. Several good specimens of azurite, cuprite, malachite and tenire were found by the Mineral Club members.

The Mineral Club meetings are held every Tuesday evening at 7:00 p.m. in the Mineral Lab in the Hill Building. Instructing the group on minerals and specimens is shown. Anyone interested in joining the Mineral Club on field trips and meetings is cordially invited to be a member of this campus organization.

Ladies' Auxiliary of the American Legion

There are three sizes of H bombs: big, bigger, and where the hell is everybody.

Idiocy travels so slowly that poverty easily catches up with it. The speedometer on a used car speaks your mind and when to mind it. The speedometer on a used car and a jail's claimed age are similar—ones expect both to be run badly.

“My roommate and I made a bet on the exam.”

“The speedometer on a used car and a jail's claimed age are similar—one expects both to be run badly.

“Somebody likes to see a broad smile, especially if she smiles at him. You owe it to yourself to become successful—after that you owe it to the Bureau of Internal Revenue.

Junior Engineer: A camp skell who invariably takes his departure when the latitude is not his liking.

A sheepherder suddenly struck it rich. His first purchase was a Cadillac limousine. On his next trip to town, the dealer asked him how he liked the car.

“Sure” replied the sheepherder. “I'm digging a grave for it.”

“Short skirts make girls look shorter—and men look longer.”

“Don't need no chauffeur, but I'm digging a grave for it.”

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The old mine mule was put out to pasture years ago. Anaconda now "moves the rock" by a complex system of ore trains in its Butte mines. This underground railroad competes with dispatchers and signalman, but modern mining equipment adopted by Anaconda. New methods such as this allow Anaconda to develop its Montana properties more efficiently and to recover low-grade ore that had no value in the days of the old mule. This means good jobs and a continuing contribution to Montana's business economy.