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# The Acropolis

A Merry Christmas and A Happy New Year

Vol. III.

BUTTE, MONTANA, DECEMBER 21, 1925.

Number 3

## INTERSCHOLASTIC FOOTBALL CHAMPIONSHIP GAME THANKSGIVING DAY

"The most spectacular football game in the history of Montana" was the general verdict offered by the five-thousand fans who swarmed to Clark Park on Thanksgiving Day to see the state interscholastic game between Billings and Great Falls, which ended in a 27 to 27 tie. The School of Mines, under whose auspices the championship is decided annually, has certainly never offered a better attraction to the people of Butte.

The game found pitted against each other two elevens abnormally strong in offense with neither of them having an adequate and effective defense against the other's attack. Occasionally a drive toward was halted but more often the team with the ball was able to get within striking distance of a score. The heavy Great Falls team ploughed through the lighter Billings line or skirted the lighter Billings line or skirted the ends for long gains. The speedy, well trained Southern district representatives gained around the wings or on forward passes and in addition twice counted from the field on place kicks from the sure toe of Worthington. The result was a contest that gave the spectators thrill after thrill that they will not soon forget. And the climax when Billings, faced by a 27 to 20 electric lead with but one minute and thirty seconds of the last quarter remaining to play, traveled 95 yards to a touchdown in 59 and two-fifth seconds, could not have been improved by the author of the Dick Merriwell stories.

In both Great Falls and Billings much enthusiasm was aroused over the contest. The Northern district champions began a drive for a special train immediately after their victory over Whitefish sent them into the finals. Their efforts resulted in not one but two specials with a total of nearly eight hundred fans who made the trip. Counting those who drove down by automobile, nearly a thou-

sand electric rooters followed their team to Butte. The Billings fans routed out in time to start at four o'clock in the morning, their special carrying around two hundred and fifty wearers of the orange and black. Both groups had bands with them and paraded a little before they adjourned to Clark Park to outdo their rivals, if possible, at noise making. Soon after the game began, the Butte and Anaconda specators in the stands had chosen their favorite team and an advantage for either eleven was greeted with a roar that could be heard back of Big Butte. While the attendance lacked nearly a thousand of being as large as the one that saw Anaconda and Billings fight it out for the title in 1923, in many ways it was a more colorful crowd than was out for the game that established the Clark Park record for football.

Great Falls, considered by many of the experts to have but an outside chance with their opponents, startled the fans by walking away with two touchdowns in rapid succession early in the first quarter and by kicking the goals, thus taking a 14 to 0 lead before the contest was well under way. On the dry, fast field and under a mild sun, the men from the Yellowstone valley were expected to show to much better advantage, but they had no defense to offer against the Electrics, who displayed much more speed than was anticipated. Soon after the Northerners' second score, Billings tossed a long pass, the receiver going over the goal line. But he was called back, as one of his mates was in motion. In spite of this discouragement, the Sugarbeaters took their turn in the second quarter, scored two touchdowns, both of which gave Worthington a chance to kick goal to tie the count, and then before time was called maneuvered into position for the same man to send a long one over from the field, thus

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## Anderson Carlisle Club Hears Interesting Talk

The life, geography and resources of the island of Madagascar were described to members of the Anderson-Carlisle society of the School of Mines last evening by Professor John Stansfield at a banquet of the society at the New Hotel Finlen. The meeting was attended by a number of members of the School of Mines faculty and student members of the society.

Prof. Stansfield visited Madagascar five years ago and made an extensive study of the island. During his lecture following the society's dinner at the New Finlen last evening, he illustrated his description of Madagascar with a number of stereopticon slides of island scenes. Following his lecture, Prof. Stansfield answered questions by members of the club concerning the African island.

Wallace Tanner, president of the Anderson-Carlisle society, presided at the meeting.

## MINERS WIN FINAL FOOTBALL GAME

Failure to kick goal after shoving the pigskin over for a touchdown in the second quarter brought defeat to the Tech Tigers yesterday afternoon in their concluding game of the season with the Montana School of Mines. The final score was 6 to 7 in favor of the green jerseys from Butte.

The Tigers hammered through the light Miner line for their score early in the second period after Thompson rounded the left wing for a sensational dash of 35 yards placing the ball on the enemy 5-yard line. Johnson, the Tech's boring halfback, lowered his head and dove through the tangled mass of green to plant the oval within six inches of the Montana goal line. On the third down Thompson shoved it over for the score. Sell essayed to dropkick for the extra point but failed to lift the ball off the ground.

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## JUNIOR CLASS TO PUBLISH ANNUAL THIS YEAR

The Junior class will renew a custom started several years ago and publish an annual which is known as the "M". This year book was first published in 1922 and the class of 1923 also put out an annual, but since that time no other book has been published. The members of the Junior class decided at their last meeting to foster the publication of an annual and to be directly responsible for its success. The class selected Herbert Wendel to act as Editor-in-Chief, and Donald Mayo was elected Business Manager. The remainder of the staff was to be selected from the Junior class and the student body by the editor.

As this paper is to be a school organ it is necessary that the support of the entire student body be secured. Any ideas or special articles will be appreciated and will be given just and full consideration. Especially it is desired that any photos of students, student trips, or general activities be turned in to the editor so that they may be placed in the "M". All our amateur photographers are requested to get busy with their cameras and secure interesting pictures of all future student activities, as these pictures will reflect the spirit of the school.

An annual is something which will be cherished and valued in future life as it contains the reminiscences of the many pleasant days we have spent together in this school and the varied and interesting experiences we have shared and enjoyed. It will also serve to remind us of our fellow classmates and especially of the professors with whom we have been honored with beneficial association.

The "M" staff for the year 1925-26 will be as listed below:

Herbert A. Wendel...Editor-in-Chief  
A. Donald Mayo.....Business Manager  
John Warren ..... Athletics  
Charles C. Goddard, Jr...Organizations  
Henry Nightengale .....Literary  
Paul A. Eno .....Features

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## The Acropolis

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### STAFF

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Associate Editor.....C. C. Goddard, Jr.  
Assistant Editor.....Herbert Wendel

#### Managerial

Business Manager.....H. H. Nightingale  
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Juniors .....Jack Warren  
Sophomores .....C. R. Cote  
Freshmen .....A. J. McPhail  
Co-Eds. ....Helen Strong  
Athletics .....A. Don Mayo

## OUR PLACE IN ATHLETICS

The fact that the intercollegiate football schedule for the coming season is being arranged by the coaches of the various colleges in the state at the present time, has given rise to the question of whether or not the State School of Mines should schedule games with the State College and the University next season. This question has arisen, not through any break in the friendly relations we have enjoyed with these institutions in the past, but with the realization that a small school like ours cannot compete on an even basis with the University and the State College in this particular branch of athletics. In the past, conditions have been more favorable, and, until the last few years, the School of Mines has held its own with these institutions in football as well as in the other branches of athletics we have indulged in. Times, however, have changed, and the conditions existing today are such that it is practically impossible for a small technical school to produce a football squad that can compete evenly with the teams produced by larger non-technical institutions. We are not in a position to offer athletes the same inducements that the larger institutions do in the way of easy courses, credit toward graduation for athletic work and easy ways and means of earning their way through school. Due to the fact that this is a strictly technical school the courses offered are of such a nature that they require a great deal of time and study, and in most cases this is the first condition that does not appeal to athletes who have ability and are being sought by the larger institutions. In the second place men who wish to earn their way through school are forced to turn to the mines, and underground work is hard and in reality is not an inducement.

Under these conditions it seems unwise to schedule games with the University and State College Varsity elevens, and it would be better and more satisfactory to all concerned if

we confined our athletic activities, especially football, to schools in our own class and to the freshman elevens of the University, the State College and other institutions in their class.

### SENIOR NOTES

There were three seniors in school Who lived by the golden rule.  
Said one to the other,  
The other's our brother  
Even though he looks like a mule.  
(Walker, pull in your ears.)

Mr. Walker has been asked to resign from the committee making arrangements for the senior class pins. Every time that the committee entered a jewelry shop Mr. Walker caused the committee considerable embarrassment by gazing thoughtfully at the diamond rings in the show cases and paying no attention to the business being transacted.

After long and laborous research carried on to find the form of entertainment and amusement most enjoyed by the seniors we find that:

1. Tanner likes to be accompanied to weird plays—the kind where there's lots of lightning, thunder and Oh, Boy! a shot in the dark. (Before the smoke from this shot clears the-company screams and surrounds Wallace.)
2. Walker likes to meet all the trains from Helena—she can't arrive on all of them, but there's always a chance you know.
3. Nesbitt likes to study hard and bring up the average of the senior class by raising his own, it needs it.

### JUNIOR NOTES

The class has had no leisure hours. The Annual has received considerable thought, as has likewise the selection of class emblems in the form of a ring. By the way, we hope "Herbie" doesn't get in the habit of giving his ring away.

Familiar sounds--Wendell and Mayo arguing.

Gee!-All-O-Gee! Goddard likes to draw this out for Eno's benefit. Can you see it now, Paul? It's deep.

Mayo, for some reason, has taken to writing poetry in Industrial History classes. Some of us think he is going home for Christmas since this is one of his masterpieces:

"Good bye, dear, Good bye, dear,  
I called you dear in vain,  
Good bye, dear, Good bye, dear,  
I'm going to catch my train."

The Junior class would be greatly obliged if some kind person would contribute the following as Christmas presents:

A tricycle or scooter for Paul Eno so that he can arrive at his classes on time.

A set of furniture for Charles Goddard so his burden of attempting to

# A Merry Christmas

AND A

## Happy New Year

TO ALL "MINES" STUDENTS

# Hennessy's

make two live as cheap as one will be lessened.

A girl (blonde preferred) for Don Mayo so he has something with which to spend his many leisure hours.

A drag for Jack Warren with the daughter of a certain mine official. (A sheik in the making).

A watch (anything which keeps time will do) for Herbert Wendel so that he can stop pestering his classmates for the time.

A new supply of pencils for Nightingale so that he can keep the rest of the class supplied with extras.

Hendrickson—"I solemnly promise to stop drinking Prof. Hartzell's distilled water which has in the past caused the STILL to work overtime."

Harrer—"I hereby resolve that when taking my lady friend skating, I will not allow the rest of the class to horn in as escorts."

Spaulding—"I vow that henceforth I shall eagerly strive to attend all dances given by the School of Mines."

Masters—"I promise not to whistle going past Her house after coming off shift at 3 a. m."

Most of the boys are planning on working in the mines during the vacation in order to pay up back board and room, or to lay away an emergency fund. The out of town boys are, with few exceptions, planning on spending the holidays back home with Pa and Ma.

Charles Foote is going to spend the vacation in the old home town, Salt Lake City. The class regrets to see him leave because it is feared that the girl he left behind may not let him wander away again.

### THE NIGHT

Has a thousand eyes,  
And the Day but one;  
And the light of the world never dies  
Long as waters run.

THE  
MONTANA



POWER  
COMPANY

## FRESHMAN NOTES

Two members of the Freshman class have entered the amateur tournament at the K. C. We hope they will bring one of the state boxing championships home with them, as we are tired of bacon.

Rudolph Fabian would like advice on the subject of how to run cars without gas. It appears that he had some trouble in arriving at the conclusion that Park street is not a garage.

Denehey has decided to take up cribbage as a career. It is rumored that he has opened a school for the co-eds.

If the party who sat in the bowl of molasses at the last meeting of the sewing circle will return the bowl we will say nothing about the molasses.

The Freshman dance was held in the Gymnasium, December 17. It was what is known as a howling success. The hall was decorated in red and green. The Troubadors rendered the music for the evening.

The dance was well attended by members of the class. It was an invitational affair and by the looks of the crowd everyone who was invited was there.

Poky Powell brought the girl who started the riot at the Co-Ed party. She was also a howling success.

It is rumored that the president of our worthy class has been discovered to be the only man in school to have one upper lip.

A slicker has come to light in the class. Earl Lindlief received a hundred in a recent chem. quiz. This had better be looked into.

On being asked whether he was a socialist or a republican, Powell replied that he was neither, but that he was Irish.

## CO-ED NOTES

The cold weather seems to agree with the Big Five, even if we are the only one to recognize the fact. But no foolin', we are feeling livelier, and as a result we're just full of ideas for lots of good times in the future. Can't say they're just for the future, though, 'cause we're doing our stuff in the "past" as well. This is the way things stack up:

There has been three meetings of the Co-eds since the last issue. The first was called on the fourth; the second on the the ninth; the third on the eleventh.

During the second meeting it was decided that we would give a dance in honor of the football letter men, provided we could arrange for a house in which to hold it.

At the third meeting Helen MacGregor came to our rescue by offering her home at our disposal the evening of the twelfth. With such a short notice we had to work on all six to get around to all the fellows and to make the minute arrangements for the evening's entertainment.

H. S. (writing up Co-ed notes). "Max, can you think of anything funny you've said this month?"

M. M. "No."

H. S. "I can't think of a thing."

M. M. "Well, it's a good thing your memory fails you."

Speaking of jokes though, Max pulled a good one the other day on Miss Hubbard and Mrs. Converse while we were entertaining them at a luncheon.

Mrs. Converse: "It's very nice of you girls to invite us here this noon."

Maxine: "Oh, that's alright. We just asked you here to get some news for the Acropolis."

Which goes to show how hard we have to work to get some news to fill up the blank spaces for our Editor.

We were entertained at a luncheon up in the French room by Mrs. Converse and Miss Hubbard a short time later at which time we were politely informed that we were invited solely because "they liked our company."

Seeing as how no one will volunteer to remember our own jokes, it has become necessary to remember one I read the other day:

Down in Miami, Florida, a northern cottager inquired: "Is this fish good for immediate cooking?"

He was somewhat puzzled by the fisherman's reply, "Yes, but run all the way home."

R. V. was asked by one of the professors to tell how to begin a certain thing, to which she replied, "Why, at the beginning."

We (the Co-eds) are wondering how Alice will make out over the Christmas holidays. It's a whole lot easier to keep two on the string when one is in California, than it is when they're both within dating distance.

Tess Dorsh is the only one of us who is lucky enough to be leaving town during the coming vacation. She is going to her home in Samatra.

The rest of us are looking forward to a lot of fun right here in Butte. Among other things we are planning to give several small entertainments in honor of Mrs. Converse's daughter who is coming here to spend her remaining holidays with her Mother. Miss Converse is a student at the University of Washington and is in senior year. Wouldn't it be great if the son were coming, too? You see, we've sorta got an understanding with Mrs. Converse.

Well, Christmas is here and it brings back to mind the tightest man of whom we know anything about. He went outside his house after his children had gone to bed early on Xmas eve and shot off a pistol and then came in and told the children that Santa Claus had committed suicide.

Here's hoping that he won't do that for any of the School of Mines fellows.

## MINES SMOKER

The first smoker of the year was held in the Engineering building on December 4. The program for the evening was extra good. Boxing bouts were held in the large room set aside for them. The boys threw gloves at each other for all they were worth. Rodlin, Healy, Lopez and others furnished the entertainment in the squared circle. A wrestling match was held in which Stanislaus Zbysko Cote was victor. There seemed to be a slight misunderstanding among the wrestlers as to what constituted the ring.

The quartet composed of Tanner, McPhail, Murray and Moyle, supplied the music for the evening. A cup fight and an egg fight kept the crowd in an uproar. Everything was well represented except the collection.

## BARTER

I thought today of what I'd do if I could really change my place With anyone I wanted to, soul for soul and face for face.

I thought how nice it all would be to be another all the day, 'Till looking out I chanced to see my neighbor Jones, across the way.

I wouldn't trade with Mr. Jones, though he has millions in the bank, And cars and yachts and telephones that fit in walls; but he's a crank. I can laugh at trivial things the whole day long, while he just groans. I meet failure with a song. I wouldn't trade with Mr. Jones.

I wouldn't trade with young De Smitt, though he's the handsomest man in town, And with the girls he makes a hit, While I am greeted with a frown. For He says music is all wrong. Though I am slow I will admit, I like the beauty of a song. I wouldn't trade with young De Smitt.

I wouldn't trade with any man. I think I'd rather be myself. I'll win to success if I can; if not, I'll climb upon the shelf. I'll laugh a little, sing my song. I'll keep my health and coat of tan; I don't think that I'm doing wrong. I wouldn't trade with any man.

Mr. Hartzell: "Wake Mr. Eno, will you, Wendel?"

Wendel: "Do it yourself. You put him to sleep."

M. S. S. M., Dec. 17, 1925.

Dear Santa Claus:

Just a few lines to let you know what we, the students of the School of Mines, would like this Xmas. We hope this finds the Mrs. well and happy. If you bring us the toys we order we might let you in on a New Year's party, if your wife doesn't object.

To get to business, the Freshmen would like a few passing grades in divers subjects. The Sophs want a rattle, a horn (they're tired of blowing their own). The Juniors hope you will bring them a new hobby horse as they are tired of riding the profs. The Seniors are hoping for the best, they want a horseshoe and a four-leaf clover.

Prof. Hartzell asks for very little—give it to him. Koenig wonders if you have any good students you could spare? We hope that you will bring Prof. Scott a few phonograph records with the daily dozen on them. The other professors have no time to write as they are busy thinking up exam. questions. I suggest you bring them a soft heart.

Murray hopes for a large diamond and a lot of good wishes. Cote would like a correspondence in wrestling. The quartet asks for some song they know so they will not have to sing the chorus twice. The football players want another party. Poky says to give it to them but to limit their dances with a certain young lady.

Yours until Paderewski gets a haircut,

STUPIDS OF THE SCHOOL OF MINES.

## INITIATIVE

The world bestows its big prizes, both in money and honors, for but one thing—And that is Initiative.

What is Initiative?

I'll tell you: It is doing the right thing without being told.

But next to doing the thing without being told is to do it when you are told once. That is to say, carry the Message to Garcia; those who can carry a message get high honors, but their pay is not always in proportion. Next, there are those who never do a thing until they are told twice; such get no honors and small pay.

Next, there are those who do the right thing only when necessity kicks them from behind, and these get indifference instead of honors, and a pittance for pay. This kind spends most of its time polishing a bench with a hard luck story.

Then, still lower down in the scale than this, we have the fellow who will not do the right thing even when someone goes along to show him how and stays to see that he does it; he is always out of a job, and receives the contempt he deserves, unless he happens to have a rich Pa, in which case Destiny patiently awaits around the corner with a stuffed club.

To which class do you belong?—Elbert Hubbard.

## The Trend in Metallurgical Engineering Education

The rapid march of progress in engineering education, and especially in metallurgical engineering education, makes it necessary to pause occasionally for retrospection, in order to determine at what rate and in what direction that progress is being made.

Engineering education in the United States is 101 years old; mining engineering education as a distinct branch was definitely established in 1864. Since then, the general mining engineering profession has been less specialized than any of the other engineering professions, due to the fact that its own field takes in so many of the others. Because its growth and development have been so comprehensive, the four existing subdivisions, (1) Mining Engineering, (2) Mining Geology, (3) Milling, and (4) Metallurgical Engineering, have been adopted and to a certain extent standardized. These have been developed not as an indication of extreme subdivisions of general mining engineering, but simply as a designation of the various fields in which specialization is encouraged.

Metallurgy holds the unique position of being both a well-established art and an embryo science. Science is systematized knowledge; it teaches us "to know." Art is knowledge made efficient by skill; it teaches us "to do." In the development of the vast complex of products and processes incident to modern civilization, it is the rule that art precedes science. Man usually knows "how" before he learns "why." So it has been with metallurgy; yet the enormous advance in recent years in the understanding of fundamental metallurgical principles, and the more enlightened systematization of its theories, have placed that subject in the category of a science.

Metallurgy may then be defined as the science and the art of extracting the metals from their ores, and subsequently shaping them into condition for use in the industries. Careful analysis of this definition makes it evident that metallurgical engineering education must adequately comprehend two complementary and yet distinct branches of Chemical Metallurgy and Physical Metallurgy. Chemical Metallurgy deals with the reduction of the metals from their ores; Physical Metallurgy with the correlation of the constitution and structure of the metals and alloys with their physical, chemical and mechanical properties. This distinction has been recognized in university curricula only within the last few years, and still only to a limited extent.

Nevertheless, the modern trend in metallurgical engineering education is toward the encouragement of specialization in one or the other of the two branches; toward the stressing of scientific principles rather than the mere accumulation of data; and toward a better and more coordinated analysis of existing knowledge. The present tendency is to think more in fundamental terms, in

terms of atoms. Advantage is taken of such aids as microscopical analyses, thermal analyses, equilibrium diagrams, and mechanical testing; and use is made of such appliances as the differential thermocouple, the precision potentiometer, and the X-ray spectrometer. The next step will be to think in sub-atomic terms, that is, in terms of the structure of the atom and the relation of this structure to the properties of metals and alloys. It is a common fallacy to mistake the complex for the profound. All of this is advanced, but it is not difficult.

In spite of the high degree of specialization necessitated in metallurgical engineering education, the general objectives of a liberal education are diligently pursued. It is realized that the opportunities of greatest achievement call for men and women whose education has been directed to the development of broad understanding, interest, imagination, and sympathy, rather than for those whose training has been directed simply toward the perfection of technical skill. The metallurgical engineer, for example, needs to be in some degree a chemist and in some degree a physicist, yet no amount of proficiency in the technique of chemistry and physics will qualify him to take the large responsibility of industry and production.

Under the splendid administrative leadership of President George W. Craven, and with the enthusiastic co-operation of the faculty, the Montana School of Mines is maintaining a position of high efficiency in engineering education. It is requiring much study, however, and continuously repeated effort. Regarding the effectiveness of continuously repeated effort, it is well to bear in mind the Englishman's statement: "It isn't the 'eavy 'aulin as 'urts the 'orse's 'oofs; it's the 'ammer, 'ammer, 'ammer on the 'ard 'ighway."

By CURTIS L. WILSON.

## MR. F. MORRELL ADDRESSES MINES STUDENT BODY

A very interesting talk on Forestry policies and especially upon forest conservation was presented to the student body and members of the faculty by Mr. F. Morrell, district forest supervisor for the state of Montana and part of Idaho.

The speaker laid special emphasis upon the need of the government to inaugurate a reforestation policy and apply it to all cut-over forest areas. The government has such a policy in effect now but it cannot properly function without the co-operation of the owners of private timber lands and consequently the aid of all real American citizens is required and is absolutely essential.

Mr. Morrell stated that forest conservation is an economic question due to the fact that the products derived from forests are essential to all industrial operations and all industrial projects. In regard to industry in our near vicinity, the

speaker said that the present and permanent prosperous mining industry depends wholly upon a permanent timber supply which will furnish the right kind of products in sufficient amount and at a reasonable cost. In order to keep our timber supply in a stable and permanent condition so that the cost of lumber will be neither excessive nor prohibitive it is necessary to apply the strictest of conservation and protectional policies.

The speaker also said that Montana contains about 21,000,000 acres of timber land which will produce about 50,000,000 board feet of useful lumber. Of this acreage the greatest portion is owned and controlled by the government. At the present rate, 50,000 acres of timber land are cut down each year and if forest policies are not improved this timber supply will be exhausted in 20 years. So the need for adequate and strict conservation policies may easily be seen.

Fire protection is another essential to future forestry operations. Timber protection is a matter of business policy and not a business proposition. The taxes now take away the profits gained by forest protection. So it seems absolutely necessary that an adjustment of taxes must be made so that cut over forest lands can be reforested and worked at a reasonable profit because the present condition discourages the practice of reforestation. The government provides 25 per cent of the cost of reforestation, so it is a problem in which the people of Montana must effect legislation to suit the extension of forest policies.

## MINES BASKETBALL PROSPECTS

Everything points to a successful season in basketball at the Montana State School of Mines. For the first time in three years, the squad has been able to start the season with workouts on their own floor. In addition to this the candidates for positions look very promising.

A meeting of all candidates was called for December 1, by Coach McAuliffe and 30 candidates responded. Plans for the coming season and for the Class Tournament were discussed. The following candidates reported: Bullwinkle, Dennehy, Knoyle, Rodlin, Selfridge, Canavan, Quinn, Cannole, Sigler, Thompson, N. Tanner, Doherty, Lackner, Gray, Leyden, Fitschen, Helland, Byrne, Little, Healy, S. Connolly, Wirak, Sylvester, O'Leary, Dorsh, Wells, Lopez, Boyce and Cote.

The coach will pick the most promising candidates from the above at the conclusion of the Tournament from which selection he will build his team.

On behalf of the class, I wish to extend to the faculty our earnest desire that they have a very "Merry Christmas" and a "Happy New Year" of such intensity that good nature shall rule in their hearts and minds until the end of the second semester.

## INTERCLASS BASKETBALL TOURNAMENT

Due to the large number of freshmen in school, three teams have been entered in the tournament representing that class, the first, second and third teams. The sophomores entered one team and one was entered as a combination of the Senior and Junior classes. The irregulars are students that are unclassified. They carry work in various classes.

The first game of the tournament was held on Monday night at 4 p. m., December 7. Sophomores vs. Irregulars. The irregulars won in an easy manner, 21 to 3. Sigler played a splendid game for the irregulars and was high point man with 10. The fast work of Cote for the sophomores was a notable factor in keeping the score from being even more one sided.

In the second game of the tournament on Tuesday, December 8, the freshman firsts had an easy time with the freshmen thirds, winning 21 to 7. Tanner and Sylvester played good ball for the winners while Helland showed fast work for the losers.

In the third game on Thursday, the freshman second team defeated the junior-senior combination 23 to 7, in a game that was more interesting than the score would indicate. Lackner's work for the winners was very good. He and Knoyle were high in scoring with 14 points and 9, respectively. For the losers, Mayo was the main scoring factor. His basket-shooting ability was uncanny. ("Foot" Walker was a demon on defense, but on many occasions took opportunity to stroll and live up to all that his name implies.)

The fourth game was played on Monday, December 14, with the irregulars and Frosh first pitted against each other. It developed into one of the best and most exciting games ever played in the New Gym. At the beginning of the last quarter, the frosh were leading 18 to 10 and the game ended in an 18 to 18 tie. Four extra five minute periods were necessary in order to decide the winner. The first extra period ended 20 to 20. The second extra period found the score at 22 to 22, and the third at 24 to 24. In the fourth session, the irregulars got away to two baskets and the freshmen were able to score a single point on a free throw. The final score ended 28 to 25. Doherty of the frosh was high point man with 18. The work of Sylvester and Tanner was very good. Bullwinkle, Thompson and O'Toole played well for the irregulars.

The final game for the championship will be held on Tuesday night, December 15, the winner to be considered champion. The game will be between the irregulars and the frosh seconds. The loser will play the Frosh Firsts for second place in the Tournament.

The football team wish to express their thanks for the appreciation of their work as shown by the co-eds in giving us a party.

# SHIRLEY CLOTHES SHOP -:- 14 NORTH MAIN

## Interscholastic Football Championship Game

(Continued from Page 1.)

allowing his eleven to go into the intermission with a 17 to 14 lead.

When activities resumed in the third quarter, Worthington once again proved valuable with a place kick, boosting that lead to 20 to 14. The pendulum now turned and Great Falls, using their big fullback, Acord, to full advantage, drove to a third touchdown but missed the try for the extra point that, as it turned out later, would have meant victory. Tied at 20 to 20, the battling elevens started the fourth quarter and tied they remained until the final minutes were being ticked off by the timer's watch. Neither seemed able to gain consistently. Finally the Blue and White from the North started for the goal and reached a point a yard from the coveted mark. A fumble gave the ball to Billings and all that remained was a sure punt down the field to insure the Southerners safety. Instead, Milne, Great Falls guard, blocked the attempt. Winterrowd from tackle fell on the ball, and Lux, the quarterback, booted the placement that meant an extra point and additional assurance of victory. It seemed that the climax of the contest had come and that the championship was to go back with the Blue and White. It did not seem possible for Billings to do much in the minute and a half remaining.

However, after receiving the kick-off, Inville, the Sugarbeeter quarterback, resorted to forward passes to Josephson, clever little end. One was ruled completed after there had been clear interference with his progress down the field and another long one he captured after exceptional work by Bergherm, the fullback, doing the passing, who fended off opposing linemen until Josephson was in position. Then Linville crossed the temporarily demoralized Great Falls team by skirting the end for eleven yards and a touchdown. With a tie or defeat at stake, Worthington sent the ball between the uprights and it was 27 to 27 with thirty seconds to go. Those who made a rush for the cars immediately after Great Falls scored last, are still kicking themselves for what they missed.

As soon as the pistol barked to end the game, there arose a demand to know which team had the advantage in yardage. Professor Scott of the School of Mines, who directs the high school football championships, immediately ruled that there was no decision by yardage in case of a tie in the final game, that there were two champions, and that the big trophy for the winning school and the gold football watchfobs for the individual prizes would be duplicated as soon as possible. As many in the crowd

did not hear this announcement, there were many arguments in the course of the evening over the result.

The visiting elevens enjoyed an informal Thanksgiving dinner at the Finlen Hotel following the game, the formal speeches and presentation of awards featured in other years by the School of Mines being omitted upon the request of both teams. At eight thirty both squads, accompanied by many of their supporters, came out to the Mines gymnasium, where Professor W. T. Scott, in the absence of President Craven, presented the team and individual trophies. Billings won the toss and consequently received as a permanent possession the football that was used during the game. Then Great Falls, having the next choice, elected to take back with them the individual prizes and to wait for the team trophy. Consequently Billings, the next day, when they left, were showing the handsome silver likeness of a halfback straight-arming an opponent. Since then each squad has been sent the part of the award that was its due but which had to be ordered specially to meet the emergency caused by the tie. Silver cups appropriately engraved were sent to Whitefish and to Glendive to help them remember the achievements of their teams in winning their district championships.

Following the awards came the annual football championship dance held this year in the Mines gymnasium. The floor had been newly sanded and varnished in preparation for this event and was in unusually good condition. Until midnight a large crowd enjoyed the affair and complimented the Dancing Club on the decoration of the gymnasium and upon the general good time provided. The dance placed a fitting close on the events of the day, even to the scrimmage for coats after the music stopped.

Reports received from both Billings and Great Falls following the game have been complimentary to the handling of the contest by the School of Mines management and have expressed the satisfaction of men and coaches with the treatment they were accorded.

## MINES WIN FROM IDAHO TECH.

(Continued from Page 1.)

### Miners Drive Through.

Neither team proved menacing again until near the end of the third period when the Miners took a new lease on life and began a drive from the Tiger 40-yard line after gaining possession of the ball on a fumble. The first down netted the ore diggers 5 yards and on the second play Aho started to circle left end and cut in for a 10-yard advance. With first downs and 10 to go the Montana

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backs plugged off another 12 yards with three line smashes.

The stripped Tech warriors tried desperately to stiffen and stem the green wave. The ball was on the 12-yard line and the ore muckers were drilling through for persistent gains. On the first down Aho wriggled through the Tech linemen for 5 yards. Fighting desperately with their backs against the goal posts the Tigers revived and stopped two rushes for less than a yard gain. Montana took a chance on the fourth down and succeeded in making their yardage by advancing to the 3-yard line.

### Score Touchdown.

The first smash was turned back without an advance but on the second play Aho again managed to chalk up a gain, this time for 3 yards and within a few inches of the white line. On the third play the Miners pushed over for the score.

With the count 6 to 6, Bullwinkle set himself carefully for a drop kick. The pigskin sailed squarely between the goal posts for the extra point and a victory.

During the final few minutes of play the Tiger aggregation opened up and tried to pull out with a last minute victory on a pass. H. Ball was hurling the oval and twice brought the spectators to their feet with 35-yard slants that the Miners knocked down with the tips of their fingers when it looked as though Tatro was going to pluck it out of the air for a score.

### Game Is Slow.

The game was slow throughout with only an occasional thrill for the straggling crowd that turned out for the Thanksgiving day battle. The Tigers, with a considerable advantage in weight, started out like their man-eating namesakes, but in the second

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half the Miners bucked up on defense and held the rushes of the Hutchinson proteges fairly well. Bullwinkle, Montana punter, out-kicked the Tiger toe performers, gaining from 10 to 20 yards on practically every exchange.

Johnson, the hard-hitting Tiger half, was the best performer for the local squad, being good for 4 or 5 yards every time he carried the ball. The hard-headed blonde charged the line viciously and seldom failed to drill a hole through the green defense.

### Make Sensational Run.

Thompson with his 35-yard sprint gave the most sensational single performance of the afternoon.

Aho, halfback for the Montana aggregation, was the shining meteor

(Continued on Page Six.)

**MINES-IDAHO  
TECH. GAME**

(Continued from Page Five.)

among the Miners and was responsible for most of the enemy gains. The tackling of the Tigers seldom rose above the mediocre.

Lineup:

Tech	Position	Montana
Tatro	le	Stodden
Brimhall	lt	Shaffer
Kelley	lg	Murphy
Robbins	c	Mayo
Baggs	re	Powell
Campbell	rt	Quinn
Miller	rg	Keils
Sell	qb	Thompson
Hodson	lb	Aho
Johnson	rh	Sigler
Thompson	fb	Bullwinkle

Substitutions: Tech, Hart Ball for Thompson, Ham Ball for Johnson, Johnson for Ham Ball, Ham Ball for Sel, Barlow Thompson for Ham Ball, Barlow for Thompson.

Montana, Dennehy for Sigler, Healy for Stodden, Johnson for Mayo, Jeffers for Bullwinkle, Hendrickson for Keils.

Officials: Umpire Bentley; referee Breashears; head linesman Holmes.

**THE 1926  
ANNUAL STAFF**

(Continued from Page 1)

H. F. Weyerstall	Artist
Wallace B. Tanner	Seniors
Donald O. Noel	Sophomores
Miss Maxine Marvin, Francis Lyden	Freshmen
Miss Tess Dorsh	Co-Eds

**HUBBARDISMS**

Never explain—your friends do not need it and your enemies will not believe you anyhow.

Men do not lack strength; they lack the will to concentrate and act.

The highest reward that God gives us for good work is the ability to do better work.

The man who knows it can't be done counts the risk, not the reward.

Everything is waiting and watching you to see what signal you hoist from within—you attract that which you desire to attract.

Abolish fear and you can accomplish whatever you wish.

All denominations are needed—they fit a certain type of temperament. Down in Pennsylvania they break up the coal and send it tumbling through various sieves, and each size finds its place in a separate bin. If sects did not serve mankind they would never have been evolved—each sect catches a certain-sized man.

Every life is its own excuse for being, and to deny or refute the untrue things that are said of you is an error

in judgment. All wrong recoils upon the doer, and the man who makes wrong statements about others is himself to be pitied, not the man he vilifies. It is better to be lied about than to lie. At the last no one can harm us but ourselves.

Nature's best use for genius is to make other men think; to stir things up, so sedimentation does not take place; to break the ankylosis of self-complacency; and start the stream of public opinion running, so it will purify itself.—Elbert Hubbard.

**MONTANA INTERCOLLEGIATE COUNCIL  
Arranges Basketball and Football Schedules**

The annual schedule meeting of the Montana Intercollegiate Athletic Conference was held at the New Finler Hotel in Butte on December 11 and 12, with all of the five member colleges represented. Those present were Coach Ott Romney of the State College; Professor D. B. Vluley and Coach Bruce Hollister of the Normal College; Professor E. T. Walker of Intermountain Union College; Father P. F. McVeigh and Coach Risteen of Mount St. Charles College; and Professor W. T. Scott and Coach D. C. McAuliffe of the School of Mines. Coach Laird of Intermountain and Professor D. B. Swingle of the State College, other representatives eligible to attend the meeting, were unable to be present.

The coaches who gathered on December 11, worked out their schedules in basketball for the coming winter play and their dates for football for next year. They also discussed possible baseball and track engagements but found little chance to develop either sport to any advantage.

The Board of Control, consisting of the faculty representatives, met the following afternoon. They ratified the schedules drawn up by the coaches, adopted several provisions for their by-laws, and acted on two questions of eligibility. The Normal College brought up the question of the status of students in their summer quarter. Such students usually may carry only three-fourths of the regular program for other quarters and this makes it difficult for them to comply with the credit requirements under the Conference rules. The matter was left to the decision of the Normal College itself, as it is the only one affected by the problem as to whether the summer quarter should be counted as regular attendance or should be ignored. The School of Mines brought up the question of men regularly enrolled too late for football but several months before the basketball season begins. Three of the Conference members under the quarter system get late enrollments in the fall term eligible for competition immediately after the holidays. The Mines and Intermountain under the semester system would have to keep such men on the bench until February. It was ruled that steps

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should be taken to clarify the wording of the constitution and that men so enrolled at these two institutions should be eligible for competition this year immediately after the holidays. No matters of general interest were under discussion. Both meetings were unusually peaceful, especially as compared with some that have been held by the Montana athletic mentors in recent years.

Under the schedule adopted at the meeting the Ore Diggers will play the following Montana Conference games in basketball and in football: Basketball.

**Basketball Schedule.**

- Jan. 8.—Montana State vs. Normal in Dillon.
- Jan. 9.—Montana State vs. Mines in Butte.
- Jan. 9.—St. Charles vs. University in Missoula.
- Jan. 16.—Intermountain Union vs. M. S. C. Frosh in Bozeman.
- Jan. 21.—Montana Mines vs. St. Charles in Butte.
- Jan. 21.—University Frosh vs. M. S. C. in Missoula.
- Jan. 22, 23.—St. Charles vs. Normal in Dillon.
- Jan. 22.—Intermountain Union vs. M. S. C. Frosh in Helena.
- Jan. 28.—Intermountain Union vs. St. Charles in Helena.
- Jan. 29, 30.—Montana Mines vs. Normal in Dillon.
- Feb. 5.—Montana Mines vs. Intermountain Union in Helena.
- Feb. 6.—Montana Mines vs. St. Charles in Helena.
- Feb. 11.—Intermountain Union vs. Mines in Butte.
- Feb. 13.—Montana Mines vs. Montana State and Montana State

(Continued on Page Seven.)

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Hoskins—"You're right, dearest, I had no business doing it. It was all pleasure."

**BASKETBALL AND FOOTBALL SCHEDULES**

(Continued from Page Six.)

- Frosh vs. University Frosh in Bozeman.
  - Feb. 12, 13.—Intermountain Union vs. Normal in Dillon.
  - Feb. 19.—University vs. Montana State and Normal vs. M. S. C. Frosh in Bozeman.
  - Feb. 20.—Montana Mines vs. Normal in Butte.
  - Feb. 26.—St. Charles vs. Normal in Helena.
  - Feb. 27.—Intermountain Union vs. Normal in Helena.
  - Feb. 27.—University vs. Montana State at Missoula.
  - \*—Tentative.
- Football Schedules.**
- Oct. 9.—Intermountain Union vs. M. S. C. Frosh in Bozeman.
  - Oct. 16.—Intermountain Union vs. St. Charles in Helena.
  - Oct. 23.—Intermountain Union vs. Mines in Butte.
  - Oct. 23.—Normal vs. St. Charles in Dillon.
  - Oct. 30.—Mines vs. St. Charles in Helena.
  - Oct. 30.—Intermountain Union vs. Normal in Dillon.
  - Nov. 6.—M. S. C. Frosh vs. Intermountain Union in Helena.
  - Nov. 11 or 13.—Mines vs. Normal in Butte.
  - Nov. 11.—St. Charles vs. Intermountain Union in Helena.

**DEBATE PROSPECTS**

Owing to the rush in connection with interscholastic football, which has kept Professor Scott, debate coach, extremely busy, but little has been done as yet with forensics. The candidates for the varsity and freshman teams have been studying the child labor amendment question which will be argued this year by doing outside reading for a general background. Bibliographies of material have also been made and books and pamphlets available in Butte libraries have been located. Plans are being made for the candidates to use part of their spare vacation time in securing more material.

Immediately after the holidays the debate squad will go into active preparation for the winter campaign. By that time definite dates will be announced for the various contests and it will be possible to determine when the tryouts for positions on the teams may be held. At present all of the colleges in the state have applied for places on the Ore Diggers' schedule and there will be enough contests to keep the teams busy.

Those who are interested in taking part in the annual School of Mines Oratorical Contest are also being urged to get started on their orations. The contest this year will be held much earlier than previously because the state contest will be earlier. Those who get started now will have

an abundance of time to work out their ideas, to get their orations written and committed, and to secure coaching on delivery. Delay will make necessary hasty and ineffective work. Under the requirements of the Montana Intercollegiate Oratorical Association, the orations shall be upon some topic of general and timely interest and must be not more than 1,750 words in length and not less than 1,500. They must be original compositions except for advice or information received from others.

The School of Mines contest will be held the last of February. The medals, duplicates of the gold, silver and bronze ones given last year, have already been ordered. Two of last year's contestants, Henry Stanley and Wallace Tanner, are in college and are ready to resume their rivalry. Any others who are of literary taste and who wish to develop their ability in public speaking are urged to get into the running. The winner, aside from the gold medal received, will get the trip to Missoula in March to the State contest.

**Mines Students Entertain Kiwanis, Rotary and Exchange Clubs at Joint Meeting**

A publicity stunt that gave three hundred Butte business men an interesting hour was put on by Wallace Tanner, '26, Harry Nightengale, '27, Harold Johns, '28, Archie McPhail, '29, and Professor Scott on Wednesday, November 25, when the Mines men were asked by Butte Kiwanis to prepare a program for a joint meeting of Kiwanis, Rotary and Exchange clubs of the city. After the usual preliminaries customary to such an occasion, Professor Scott took charge as chairman of the proceedings and introduced in turn the other four each of whom explained certain of the Ore Digger student activities as they are conducted on the Hill. Publications, debate and oratory, orchestra and glee club, social events, the Co-Ed Club, the interscholastic football championship, and athletics, were all discussed, interestingly and well, by some one of the men. Harold Johns, who had his debating style in fine fettle, brought down the house with an unusually good plea for support for Mines athletics by Butte business men. Those who heard him are still talking about his speech and it may be that something worth while will come from it.

After these talks, Tanner, McPhail, Nightengale and Professor Scott, put on a skit that caused much laughter. Telephones had been secured from the local exchange and conversations were held between Scott, who was arranging the state championship game, and the coaches of the rival teams represented by Tanner and McPhail. The objections to everything under the sun, as they were raised by the coaches, and as Scott attempted to adjust them, brought to the business men some realization

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that handling a state championship was not all profit and glory.

The whole program went over so well that the civic organizations have expressed their intention of calling on the Mines for programs occasionally in the future.

A man is not the man who drinks, Nor smokes, nor acts, nor different thinks.

A man is he that can say "No," When in his life temptations show.  
—Richard F. Wolfe.

During the summer Professor A. E. Adami and family spent a month out in the Puget Sound country, returning just in time for Prof. Adami to make his annual pilgrimage to Maiden Rock with the plane surveyors. Professor Hartzell also was on the wing all summer long, his travels taking him to Seattle and then by auto down to San Francisco and Long Beach. Teaching in the summer normal school at Miles City claimed Professor Scott, who returned claiming that it was so hot over there that he would feel perfectly at home in the hereafter awaiting him. Coach McAuliffe journeyed to Chicago, where according to rumor, he just barely managed to escape in a state of single blessedness. Mr. Carroll took to Yellowstone Park for his vacation, while President Craven seized a few days in Glacier National Park. The other members of the faculty remained in or near Butte.

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**ALUMNI NOTES**

Owen F. Brinton, '05, recently resigned as General Manager of the Jib Mining Co., Basin, Montana, and has opened an office at Salt Lake.

Fred Gaethke, '17, and Murl Gidel, '12, have arrived at Bremen on their way to Poland.

August Grunert, '10, who is in charge of the Jib property at Basin, Montana, has reported to the chairman of the stockholders' board of directors a strike of free gold in the Katie ground of the Jib Mining Co. Samples of the ore seen in Butte showed a liberal sprinkling of the yellow metal.

**EVANS' ADDRESS TO ALUMNI**

(Continued from Last Issue.)

The largest stone thus far found weighed just forty-five karats. Many people confuse the price of diamonds sold in lots with the price they have to pay per karat when buying diamonds for personal adornment. I may add here that from only two to four per cent of the diamonds mined are good enough or large enough to be cut into stones which are suitable to be worn, for example, in a ring. Lot diamonds include everything, jagged, broken, flawed, off-colored, large and small, good and bad; thus the difference in price. The stock diamonds are used principally in the industries for grinding.

**"Prospecting."**

Formerly the prospectors were given a roving concession in a certain district and worked wherever they thought there were diamonds. No system was used. Now, the entire country is being systematically prospected. From Tsikapapa as a base, every stream is prospected as it is reached and none are now passed by because it does not "look good."

There are two methods of prospecting; by drilling where there is much water and heavy over burden, and by trenching. The river flats being usually covered by much more over burden than the creek flats, are prospected by means of Empire drills. There are two sizes of these used—six inch and nine inch in diameter.

For a six inch drill a crew of six men is required; for a nine inch, nineteen to twenty men. These crews are in charge of a native boss or Capita, which word is a derivation from the Portugese.

From two to four holes are drilled per day, depending upon the character of the over burden and depth of the bed rock. From ten to twenty feet of drilling is accomplished per day by each drill. One white man usually supervises the work of two drill crews.

In general prospecting on river flats, using Empire drills, lines of drilling holes are usually put four hundred meters apart and the individual drill holes on the lines fifty meters apart.

The gravel from these holes, if there be any, is washed and sized, jigged and the concentrates picked for diamonds. Whenever a diamond is found, four more holes are drilled, ten meters away and on each side of the discovery hole. Should any or all of these holes show diamonds, the same procedure is followed, until the limits of the deposits are determined. When a hole shows blank, the work is dropped and the drill is advanced to drill more holes fifty meters apart. All holes are carried to bed-rock and before a casing is pulled, the drill boss must show the man in charge a part of the bed rock sample. The natives soon get very proficient in the running of a drill, and note with great accuracy when the gravel below the clay or silt is reached.

It is interesting and remarkable to watch the development of raw natives who go to work on a drill. At commencement the work is exceedingly difficult and tiresome, and the men with less stamina very often desert their work and return to their villages; but the best men, or those who stay, soon begin to develop a fine set of back, shoulder, and breast muscles, and in a short time the work is carried on with much talk and song. The drill crews make up songs and these are sung when the drilling is being done. These songs often portray some characteristic of the white bosses. When a crew is singing and is noisy, it is working; sullen drill crews indicate that less work is being done. The results from drilling are very satisfactory indeed, and some of our largest deposits have been discovered by this means.

**"Creek Prospecting."**

This kind of work is carried on by means of trench sinking. It requires a crew of from sixty to eighty men, usually bossed by two or three natives, and all under the direct supervision of one white man. On general prospecting, the trench line will usually be spaced 400 meters apart, and the trenches on these lines placed so as to cut a section into the valley. Trench lines are placed perpendicular to the general direction of the valley, and for this reason are not always parallel.

(To be Continued.)

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