

5-10-1926

The Acropolitan - v. 3, no. 5

Associated Students of the Montana State School of Mines

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The Acropolitan

A MONTHLY PUBLICATION BY THE MONTANA STATE SCHOOL OF MINES

Vol. III.

BUTTE, MONTANA, MAY 10, 1926

Number 5

FRESHMEN WINNERS IN TRACKMEET THE A. S. S. M. TO ELECT OFFICERS

ROMP OVER THE UPPERCLASSMEN IN INTERCLASS MEET

For the first time in many years the School of Mines is developing a track team. A number of promising candidates have been practicing during the past month. Over that period, a Class Track meet was held in which three teams were entered. One team represented all upper-classmen, while the Freshmen were represented by two teams: Section 1 and Section 2.

The track events were held indoors early in the season. These were followed by good weather and the field events. Section 2 won the meet easily by scoring 70 points. The Upper-Classes were next with 34½ while the Freshmen from Sec. 1 scored but 12½ points.

The Meet showed that there was some promising material in the school. Some of these have an excellent chance to score against other teams in the state. The coach has been working with these men and intends to enter

them in competition with other schools in the state. Intermountain Union College of Helena, has a track meet planned for May 15, in Helena, and the coach has promised to send a team to compete. St. Charles College at Helena, and State Normal at Dillon, has also been invited to enter. If these schools fail to enter teams, it will probably result in a Dual Meet between the Mines and Intermountain Union. Although the Mines will be unable to enter men in certain events, these events have not practiced for the want of equipment or running space.

There will be a dual meet in Missoula between the University and State College on May 29. The track men who show that they have real ability to score in the Helena meet have been extended an invitation to enter in the meet in Missoula on May 29th. Coach Stewart of the University of Montana has expressed a wish to have all the Colleges of the State represented by as many track men as they can send. Any track man who shows that he has the ability to score points in the Helena Meet will in all probability be sent to Missoula, May 29.

ARCHIE McPHAIL WINS ORATORICAL CONTEST

TO REPRESENT THE MINES IN STATE CONTEST

As a result of the annual School of Mines oratorical contest which was held in the chemistry lecture room the morning of April 16, Archie McPhail of the Freshman class will represent Montana Mines at the Montana Intercollegiate Oratorical contest to be held May 8, at Missoula under the auspices of Montana State University. McPhail won the trip to the state event after a close and spirited battle on the platform with Wallace Tanner of the senior class.

Four men entered the local contest but William Cockayne, '29, was prevented from delivering his oration by illness. The winner's subject is "The New Nullification," a strong plea for centralized power in our government as an aid to solving the important social problems now confronting the American people. Tanner talked on "America's Supremacy in the Air." He argued for the development of commercial aviation on a much great-

er scale as a definite aid to our war forces and to the development of our own transportation in rivalry with what is being done in Europe. Robert F. Cooke, '28, the third entrant, discussed "The Problem of the Naval Oil Reserve," showing how the recent scandals at Washington threatened our navy in its task of protecting our coasts.

The judges were Rev. Cecil L. Clifford, pastor of the Mountain View Church; John Boardman, director of the Safety First work of the Anaconda Copper Mining Company, and Rev. Lester H. Bent, pastor of the People's Congregational Church. They were divided in their opinions, but a check gave McPhail first, Tanner second, and Cooke third. Mr. Walker B. Carroll, instructor in mineralogy and the Mines' first orator in an intercollegiate contest, presided and awarded

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ANDERSON CARLISLE BANQUET

The Anderson-Carlisle Technical Society of the School of Mines held their regular monthly banquet at the Chequamegon on the evening of April 22. About six professors and thirty members of the society were in attendance. Godfrey Walker, the president of the society, was toastmaster for the evening. The main features of the program were addresses by G. E. Sheridan of the research department of the Timber Butte Milling Company, and J. H. Thomas of the Montana Power Company.

Mr. Sheridan spoke in an interesting way on "The Development and Application of Metallic Cyanides to Selective Flotation." At the request of many of the students who were unable to attend the banquet, Mr. Sheridan's speech is printed in part in this issue of The Acropolitan.

Mr. Thomas, who was a Rhodes scholar at Oxford, gave an interesting sketch of a Rhodes scholar's life, and later described his varied experience in Cuba. The sugar plantations, the handling of sugar cane, and the impression made on an American by the natives of the land were handled in a most entertaining manner.

The final banquet of the term is being planned for May the twelfth. Two very good speakers are being engaged for the evening. All members of the society are urged to attend this final banquet of the year for it promises to be one of the best.

SCHOOL OF MINES ANNUAL

The efforts and work of the members of the Junior class toward editing the annual, or as it is best known, the "M", will see their culmination in the latter part of May, when the book will be completed and ready for circulation.

Since the later part of the first semester of this school year, the class has been very busy at the task of editing and organizing the material which is included in this year book.

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IMPORTANT ELECTION THIS MONTH TO INSTALL OFFICERS FOR NEXT YEAR

It has reached that time of the year when the annual A. S. S. M. election of officers is to be held, this being a regular event about the middle of May. Consequently candidates for office will have the chance to do their campaigning and to hold the center of the stage for a while.

Under the constitution of the A. S. S. M., all candidates must file petitions of nomination showing at least ten signatures as well as their own. These provisions exist to prevent the useless nomination and voting on men who are not interested in holding office and who might decline to serve after being elected.

At the May voting, there are four officers to be selected, the president, the student manager of athletics, the vice-president, and the secretary. Under the rules the president must be a senior next year, having completed enough of his work to warrant being considered a candidate for graduation. The student manager of athletics may be either a senior or a junior, but must have completed all the work of sophomore year to be eligible. Similar requirements prevail for the secretary and vice-president except that they must have credit in all studies of the freshman year, thus being allowed to hold office if they belong to any one of the three higher classes.

By past custom, both the student manager and the president have been seniors. The student managership carries with it the requirement that the man elected shall have served at some time as an assistant manager and shall have the certification of a student manager to this effect. This office carries with it a lot of work and responsibility for equipment and A. S. S. M. finances. The men who framed the constitution of the A. S. S. M. believed that some experience with the work to be done was necessary if the man holding the place was to be at all efficient. Custom also has usually elected a junior as vice-president and a sophomore as secretary.

The four officers to be elected this May together with two men chosen at large next September, comprise the student membership of the executive committee of the A. S. S. M., the

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The Acropolis

Published Monthly by the Associated Students of the Montana State School of Mines.

Subscription Price
Per Year\$1.00
Extra Copies, each10

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At a meeting in 1924 of the Executive Committee of the Associated Students of the School of Mines, it was decided that in April of each year the editor of The Acropolis should be succeeded by the associate editor. The wisdom of this plan is at once apparent, and a regular succession is thus established. In accordance with that decision and following the precedent, we chronicle the retirement of Mr. Wallace B. Tanner as editor of The Acropolis. His untiring efforts have done much to pilot our paper and give it the success which it enjoys. We thank him for his splendid work.

And now, just a word to the seniors. For a long time we have known each other, and during that time we have become good friends. The end of the year is close at hand, bringing with it Commencement Day. It is the time to which you have looked forward and for which you have worked. Your destinations are varied and widely separated—your future unknown. You go into new fields—make new friends, but we, who remain, do not want you to forget us nor the school that has given you your start. Let us hear from you, for we are proud of you and have faith that you will bring credit to the Mines in your future work.

With the close of the school year drawing near, The Acropolis feels that they are completing a successful year, both financially and from the standpoint of service to the student body, and to the school. We have tried to give the student body a better paper, one that brings them closer together, and one that promotes school spirit. We have endeavored to make each new issue of The Acropolis just a little better than the last. We have tried to make our paper interesting and desirable. If you think that we have not succeeded in these then our efforts have been in vain; if you think we have succeeded, we are, indeed, repaid for our efforts. It is very hard to publish a good paper in a school such as the Mines. It can

only be done successfully when the co-operation of the whole student body is obtained. If you feel that our paper is not a success let us know why. Help us to remedy the faults. Remember it is your paper, and its success depends largely on you.

SENIOR NOTES

The yearly day of labor spent on the M came off on the scheduled day very successfully due entirely to the superhuman efforts of the most ambitious Senior Class the School has ever known. When we say this we are not trying to pat ourselves on the back or take any undue honors but merely saying what we have so often been told by the members of the faculty in the past year.

We feel it necessary at this time to bestow our deepest appreciation for the grub furnished by the co-eds on M day which we will never forget. The doctors prescribe "What the babies cry for—".

The M day dance was a huge success because we, the Seniors, were there.

For the past week we have been devoting our time and attempt to elucidate to Mr. Haley a few of the fundamental principles of the art of ore dressing. Report little success.

The seniors spent a few days visiting a mine called the Forest Rose in the McCarthy mountains. A study of the geology of the district was made. The scenery was found to be beautiful. The district is very dangerous for white men due to a type of eagle which the natives playfully call mosquitoes.

Mr. Tanner recently appeared at school in a very seedy condition which he claimed was due to an attack of appendicitis. We have our doubts—"Cherchez la femme".

JUNIOR NOTES

We extend to "Herbie" our heartiest congratulations in his new adventure. Herbie has entered the ranks of the Benedicts. A single man is out of place in our class.

Mayo had his dates twisted. He evidently mistook the metallurgy trip for a rock finding expedition.

If we build another nest we'll look out for the other bird. That's our motto from now on.

Track season is here and Paul's back is assuming a catenary curve from carrying the burden of medals. He said he made the 220 in nothing flat.

SOPHOMORE NOTES

Considerable development is being undertaken at the present time by the Atlas Mining Company on its properties in our city. A recent report by the treasurer, Prof. Scott, shows that about \$50,000,000.00 has been put for said development since the beginning of last February. Yes, it is a lot of money but then a few million dollars means no more to a member of the Board of Directors of the Atlas Mining Co. than a few million years

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means to a Geologist. However, laying all jokes aside, Scott's sophomore English class is a thoroughly enjoyable and interesting class.

With but one month of school left and enough work left to last at least a year any even minded Soph would think that it was time to dig-in and study but a few of our prominent Sophs have changed the general routine. Instead of staying at home and studying they have been seen boarding street cars bound for the Gardens with tennis rackets under their arms. One of the players said that if progress continues in the near future as it has in the near past a team will be chosen to tour the U. S. He went on further to tell of the outfits to be worn, by the players, and the states to be visited, but gave up in disgust when asked by one of his fellow players if the team was to use shovels or regular tennis rackets.

One Monday morning, not long ago, a prominent member of the sophomore class was mistaken for a cowboy from the wild and woolly west as he was seen painfully walking up the hill with his legs bowed like a young bull pup. It turned out to be Harris who had been out horse-back riding the day before. We hope they are not permanent Harrer.

THE MINES ANNUAL

(Continued from Page One)

Co-operation has been given from all members of the student body and also from the faculty and the success of this publication is thus definitely as-

ured. Present plans promise that the annual will be off the press and in suitable condition for distribution about May 25.

All student activities, organizations and social events which have been participated in by part or all of the student body will be described and illustrated to the best advantage. In fact the history of this school year will be presented completely in all branches of activity and diversion.

Several new and unique features have been developed which are seldom observed in other annuals. This year has been one of the most active in the entire history of the Montana State School of Mines and consequently a large field of activities has been available to secure material from. New sports have been introduced and they are all treated and fully described in this book. All activities of the student body up to May 1, 1926, are included in this volume.

The printing and binding of the annual has been entrusted to the McKee Printing Co. of Butte. Our advertising matter has been furnished by the local advertising firm of Brink & Malone and in their efforts the financial success of the undertaking rests. Frank Ward, the engraver, has made all the cuts and has taken most of the original pictures. Middleton's Studio produced the finer grade pictures such as individual photos. The annual thus ranks as a purely local product. The rate per copy to students of the school is \$2.00 which is a considerable reduction from the regular price.

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OPEN SUNDAYS AND EVENINGS

ORATORICAL CONTEST

(Continued from Page One)

the gold, silver, and bronze medals offered as prizes each year by Prof. Walter T. Scott, head of the English department.

The state oratorical contest in which McPhail appears Saturday, May 8, has come to be one of the important forensic affairs of the year in Montana college circles. Seven institutions, Billings Polytechnic, Intermountain Union, Montana Mines, Montana State University, and Mount St. Charles, are represented by their best speaker. As a result the competition is always keen and the winner is accorded much honor. The contest is rotated among the members of the Association going to Missoula this year and to Billings in 1927. The Association offers three prizes for places, a gold charm and thirty dollars for first, a silver charm and twenty dollars for second, and a bronze charm and ten dollars for third.

According to Professor Scott, Archie McPhail has been working very hard and is showing much promise with his oration. He has been receiving training from Rev. Cecil L. Clifford, one of the finest orators in Montana, who has always been much interested in the Mines speakers. Because of this training, McPhail's delivery is much improved and there is plenty of reason for thinking he will make a creditable showing, especially for a freshman, in the faster company where he will appear.

In other years two Mines men have placed in the state event. Back in 1922, Walker B. Carroll, then a senior, won second place, receiving a first and two seconds from the judges, indicating the excellence of his performance. The winner received two firsts and a third. The next year Thomas W. Barrett, a freshman, took third place. In 1924 and 1925 the Mines representatives, Ferno Schnoebelin and Henry Stanley, both freshmen, did not place but showed considerable promise for the future. Schnoebelin did not return to college the following year while Stanley has been out of college the past semester and could not compete in the preliminary on April 16.

M DAY

Probably the most popular and most enthusiastically received event of the entire school year is M day. This is the day on which the huge stone M located on Big Butte receives its annual repairing and coat of white wash. The painting of the M is the oldest traditional event of our school and it dates back to the early history of the Montana State School of Mines to the time of its erection by the students of the school. And it serves to the present day as a fitting and lasting tribute to this college.

On a certain set day, early in May, each year, the entire student body turns out in force and proceeds to do its duty toward preserving this old custom. This year the date set for

M day was Wednesday, May 5. At nine o'clock in the morning all members of the student body reported at the front of the main building where roll call was taken and there also received instructions as to their respective duties for the day. All tools and implements were quickly gathered and soon a miniature army was wending its way up the steep slopes of Big Butte.

The damage incurred by the M since the time its last attentions was first repaired, and then the actual painting began. The Frosh and Sophs united and formed the water line which extended from the fire hydrant at the foot of the hill to the inside of the M where the white wash was mixed. The Juniors served as the first assistants of the Seniors who supervised the job and applied the coat of color. The task was completed to the satisfaction of the Seniors shortly after noon. After all the implements were returned to their proper places in the mill building the workers were served a very appetizing lunch which was prepared and served by the Co-eds and wives of the faculty in the Engineering building.

As a final and fitting climax to this eventful day the Dancing Club entertained at a free dance given in the Gymnasium. A large crowd enjoyed dancing from 9 o'clock until midnight and it was acclaimed by those present to be one of the best dances of the season.

And as the result of the days' labor a seemingly new letter M stands engraved upon its commanding and vantage point on Big Butte and from afar becoms the wayward traveller to the "richest hill on earth."

A. S. S. M. ELECTION

(Continued from Page One)

body that has the active direction along with the faculty director of student activities of student affairs which include athletics, social events, publications, forensics, and Mines' traditions.

So come on you members of the A. S. S. M.! Pick out your candidates and get petitions circulating so their names may be posted at least a week before election day which must be during the third week of May. We want some good officers for next year.

DEFINITIONS

Accident—A condition of affairs in which presence of mind is good but absence of body better.

Afterthought—A tardy sense of prudence that prompts one to try to shut his mouth about the time he puts his foot into it.

Appendicitis—A modern pain costing about \$200 more than the old-fashioned stomach ache.

Argument—Assault and battery on the brain.

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JUNIORS MAKE TRIP TO PITTSMONT MINE

The Junior Class in mining, under the direction of Professor A. E. Adams, visited the Pittsmont mine on Thursday, April 29. The important object of the trip was to study methods of timbering as practiced by the East Butte Copper Mining Company. The selection of the East Butte property was a good one in view of the fact that there, methods of timbering are used with the aim of cutting down costs without materially affecting the efficiency of the timbering. Everything at the Pittsmont, in methods of mining and timbering, is worked on the efficiency low-cost plan to enable the mine to continue working the low-grade ores encountered at present.

The Pittsmont is being worked at present under a leasing-plan and the methods of operating under this plan were explained to the visitors. The surface plant, the sampling department and the ore-bins of each individual leaser were visited. Underground, the students examined very good examples of station timbering, spiling, and sheeting, and in addition, unusual conditions met with in mining narrow veins were studied.

That the hospitality of the East Butte was appreciated is evidenced by the fact that it will always be remembered by the Mines students.

Laws of sampling:

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2. Taste carefully.
3. Get a funnel.

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She replied "Opium, suh."

"Opium," said the surprised parson. "Opium isn't a name for a child, Opium comes from a wild poppy."

"Her poppy sho' am wild, dat's de reason," affirmed the mother.

A new book is on the market: "How to Play Pinochle," by Signal and Johns.

MINES WINDS UP SUCCESSFUL YEAR IN DEBATE

The School of Mines wound up its 1926 debate season on April 29 with a unanimous decision victory over its old rivals from Intermountain Union, thus in a way getting some revenge for the two decisions taken last year by the Helena collegians from the Ore Diggers. While the Miners had a good edge over their rivals, the contest was far from being a walk-away, the three Intermountain speakers putting up much good argument.

The question argued was the national Pi Kappa Delta subject, "Resolved that the constitution of the United States should be so amended as to permit Congress to regulate child labor." Fred Johnson, '29, Henry Helland, '29, and Harold Johns, '28, upheld the affirmative for the School of Mines. The Intermountain speakers supporting the negative were Miss Conbelle Hoover, William H. Dirrim, and Ralph Micken. The judges were Miss Ara Scoenfield, social director of the Mountain View Church, Rev. Cecil L. Clifford, pastor of Mountain View, and James W. Tippet, of the staff of the Anaconda Copper Mining Company. Professor Curtis L. Wilson of the School of Mines presided while the two coaches, Mr. Alvin Taylor of Intermountain and Prof. W. T. Scott of the School of Mines acted as timekeepers. The debaters were the guests of Mountain View Church where the contest was held, Intermountain being the Methodist-Presbyterian college in Montana.

Fred Johnson, opening the debate, traced the history of attempted regulation of child labor, stated the main issues under discussion and then argued that there was much dissatisfaction with present state regulations because of lack of uniformity in laws and lack of enforcement of these laws. Miss Hoover for the negative, opened Intermountain's case with the argument that the problem of controlling child labor had been much exaggerated by paid propagandists and that the number of child laborers was really comparatively small. She used freely figures from the 1920 census to back her statements.

Henry Helland promptly came back for the affirmative with facts to show that the figures of the 1920 census could not apply in 1926 and that wrong conclusions had been drawn from them. He then proceeded to urge the proposed amendment on the grounds that it would secure uniformity of attack on the evils of child labor, a minimum standard below which the states could not go, and co-operation between state and federal authorities in enforcing the laws. Helland's immediate opponent, William H. Dirrim, maintained that the states were already getting all the results possible as far as laws are concerned and that added regulation is entirely unnecessary.

The two concluding speakers spent most of their time in arguing the effects of such an amendment on the structure of our government. Harold

Johns urged that the step could be taken without any damage whatsoever to our fundamental principles and, in fact, with great benefit to them since strong law enforcement lies at the base of respect for government. Ralph Micken for the negative argued that the amendment is an attack on states rights, especially their police powers, and that it would pave the way for other attacks on the constitution. The 1920 census figures appeared again in their statements.

The rebuttals on both sides were pointed and snappy but the Miners seemed to have a better grasp on facts necessary to upset opposing arguments. Harold Johns cinched the decision of the judges with an unusually good closing speech in which he rebutted practically every main point the Panthers had urged.

The victory over Intermountain closed the most active debate season the School of Mines has had. Since the last issue of the Acropolitan, three other debates have been held. On March 24, Junius B. Tribe and Joseph Jeppson, representing the University of Utah on a tour of Montana colleges, met Archie McPhail and Harold Johns in the chemistry lecture room, arguing the child labor amendment with the Miners taking the affirmative. The Utah men were unusually polished and capable speakers and presented very strong constructive arguments. However, they had their hands full with Johns and McPhail who came back strong on rebuttal. The judges, Father Leonard, principal of Butte Central High School, Frank R. Venable, secretary of the Butte Chamber of Commerce, and E. B. Howell, Butte attorney, gave a two to one decision in favor of the visitors, this decision just about representing the degree of their superiority in the contest.

March 26, a Mines team, consisting of Fred Johnson, Archie McPhail, and Harold Johns went to Billings for a no-decision, open forum argument with Billings Polytechnic on the child labor amendment. The men returned reporting an alleged superiority over the Poly team, extra fine treatment by the Billings people, and a flaming speech made by Johns at a Billings high school assembly in honor of the Billings basketball team about to leave on its trip to Chicago to the national tournament.

The Mount St. Charles team came to Butte on March 30 to discuss the repeal of the 18th amendment. This subject, with its appeal to the interest of all kinds of people, brought out the largest crowd of the season, the auditorium at the Butte high school being comfortably filled. The Hill-toppers used R. Vincent Kavanaugh, Emmett N. Rodgers, and Richard J. Lally. All three orators of considerable ability. They were opposed by Archie McPhail, Henry Helland, and Harold Johns. The visitors cut loose with the usual stock arguments against prohibition, relying considerably on their oratory to put over

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their points and thus securing much applause from the audience that manifestly was against the 18th amendment. The Ore Diggers stuck to logical facts calmly presented during the earlier part of the contest. In rebuttal, all six speakers warmed up considerably and jabbed at each other without mercy as far as verbal retorts were concerned. The judges, Miss Gertrude Ryan, debate coach at Butte high school, Principal Samuel D. Rice of the Anaconda high school, and Kerr Beadle, Butte attorney gave a unanimous decision for Mount St. Charles. An unfortunate incident in connection with the behavior of certain individuals in the crowd made it impossible for them to render any other decision in fairness to the visitors. Just what the decision could have been on the merits of the arguments produced, would be hard to say because it was a hard fought, even contest all the way.

The other debate on the list was held April 11, before the Butte Open Forum, Montana State University furnishing the opposition. This was a no-decision, open forum discussion contest with the amending of the Volstead Act to permit the use of light wines and beer as the topic. Fred Johnson and Henry Helland upheld the affirmative for the School of Mines while Charles Conway and Gid Boldt supported the negative for the University. The visitors were experienced debaters with a finished style of delivery and in this respect had the advantage over the Ore Diggers. When it came to argument and rebuttal, both sides were strong and gave the audience good entertainment. The lack of a decision took some of the pep out of the contest.

The year just completed has strongly established debating at Montana Mines as a student activity and it undoubtedly will be continued on even more of a scale in following years. By vote of the Executive Committee of the A. S. S. M., those participating in intercollegiate debates will be awarded a suitable emblem that may be worn as a pin, watch-fob, or charm. It is being designed at present. Those who have earned this award this year are Miss Helen McGregor, with participation in two intercollegiate debates; Harold Johns in six; Archie McPhail in five; Fred Johnson in three; and

Henry Helland in three. Of these, Johns is the only two-year man on the squad.

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THE ANDERSON-CARLISLE TECHNICAL SOCIETY

The Anderson-Carlisle Technical Society since its organization in the spring of 1922, has made rapid strides forward. This year it has selected a pin as a permanent emblem of its society. It consists of a miniature design of a mine car which furnishes an ideal background for a crossed pick and shovel, this part of the pin is supplied with a safety lock, a small chain connects it with a small band of gold bearing the initials of the society. The members of the society are very much enthused over their emblem and hope that those who are the members of the society in the future will continue to use this emblem.

Gershevsky—Why do cigarettes have oriental names?

Vlassoff—I don't know.

Gershevsky—Because they have good shapes and thin wrappers.

Jack Warren's idea of a soft job is assisting a florist to pick the flowers off a century plant.

The Development and Application of Metallic Cyanides to Selective Flotation

You have asked me to briefly relate the development and application of metallic cyanides to differential or selective flotation.

In the entire realm of metallurgy, one of the most interesting and intricate spheres of human endeavor, there is not a more fascinating process than that of flotation. With the thousands of experiments that have been made, and the vast amount of thought given to the subject by trained and skillful men the subject still remains an enigma. As to the mechanism of the process we are still ignorant. Out of the numberless theories advanced in explanation, not a single one stands without a flaw. We only know by following various procedures certain results are attained. It is with this in mind I wish to present to you my subject tonight.

With the development of flotation it was but natural that through it a method of attack would be sought for the solution of the complex ore problem.

There are a number of ore deposits in which lead, zinc and iron occur as sulphides in intimate association. Oftentimes with these minerals copper, silver, and gold are combined. The mixture is such where the lead value predominates the lead smelter finds the zinc objectionable to the economic smelting of the ore. On the other hand if the zinc is to be considered, both the electrolytic zinc plant and the zinc smelter find the lead and iron things to be avoided in reaching the greatest efficiency in treatment. Even in the simple combinations of lead and iron; or copper and iron recent metallurgical practice has found it to be a distinct advantage to improve the grade of product by eliminating the iron.

The desideratum then is to segregate the ore into its various constituents, sending each to the place designed for its recovery.

It may be interesting to mention the lines of attack other than flotation, that have been made. The list would include gravity concentration, electrostatic devices, magnetic separators, electrothermic smelting, and leaching. All have found an application, the success attendant upon their use has been more or less limited by the character of the ore handled. The more refractory ore remaining unamenable to treatment. While selective flotation has its limitations, it has made available a great many ores that hitherto were beyond the bounds of economic treatment, and has greatly improved the results upon ores that partook of a complex nature.

Several years ago the research department of the Timber Butte Milling Co. confronted the task of milling the complex ores of this district. All of you are familiar with how ore is finely ground, mixed with water containing a small quantity of acid or alkali, violently agitated with a minute amount of oil, which has an affinity for the sulphides causing

them to float on the surface. The sulphides which we are considering named in the order of their ease of flotation would be as follows: Galena, chalcopyrite, sphalerite, pyrite and marcasite. This tendency to float is not always marked enough to make available the separation of the various minerals by oil control. Many attempts have been made to accentuate this inherent quality of these minerals. Again others have sought to reverse the natural order of things, with the aid of reagents, to float the zinc first and drop the lead with the iron.

Our first step in studying the problem was to become familiar, as far as possible, with the previous work done in differential flotation. An effort was made to determine the actual worth of the various schemes in the laboratory. After carrying on this work for some time, we finally decided to use our limited knowledge of flotation and chemistry, and by trial and error establish a new line of procedure.

We immediately turned to metallic cyanides. They are exceedingly active salts chemically, especially in alkaline circuits, and offered an unexplored field in differential flotation.

Our first work was with a synthetic mixture of the sulphides of lead, iron, and zinc. Our first tests were successful beyond our expectations; but much to our chagrin when applied to a natural ore failure resulted. Long weeks of testing followed with various types of oil, amounts of reagents, degrees of alkalinity, temperatures, and all the factors that enter in flotation. There is no need of going into detail, suffice it to say a scheme was finally evolved which we believe is a contribution to the art in which our work has carried us.

Briefly the process is as follows: By the use of small amounts of the cyanides of the alkalies, alkaline earth, or the heavy metals in conjunction with the alkalies or the alkaline salts a means of separation of the various sulphides associated in complex ores is afforded.

In practice the ore is ground to the degree of fineness required to free the minerals. From .2 to .5 lbs. sodium cyanide, and from 2 to 5 lbs. sodium carbonate added in the ball mill or in a sludge tank previous to flotation is effective on a great many ores. On others sodium bicarbonate seems to be more efficient in floating the lead. Again in some instances zinc cyanide shows a tendency in aiding the dropping of the zinc and gives a cleaner lead product. In such cases zinc sulphate is used proportionately to the sodium cyanide added.

After floating the lead with the aid of a suitable oil, the zinc is made amenable to flotation by the means of copper sulphate, sometimes dependant upon the character of the ore, greater alkalinity at this point is required, and sodium hydroxide or sodium carbonate is added. A heavier oil is also generally used for the zinc flotation. Fortunately for the most part the greater portion of the copper, silver, and gold are recovered with the

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MAIN AT QUARTZ

lead concentrate. The iron is sent to waste as tailings. However it is possible to obtain an iron concentrate if so desired. The scheme is also applicable to the separation of copper from iron, and copper from zinc.

The action of the reagents promotes the flotation of the galena and chalcopyrite, slightly retards the sphalerite, and inhibits the sulphides of iron to a very marked degree from floating. The influence of the chemicals, with the proper selection of oils gives a very positive differential flotation process.

I will conclude with a few applications from actual practice. Every ore is a problem in itself, and the best flotation conditions for that ore can only be ascertained after endless experiments.

At the Sullivan Mill of The Consolidated Mining and Smelting Co. of Canada, sodium carbonate, sodium cyanide, and a tar acid are the reagents used for the recovery of the lead.

At the mill of the International Smelting Co. at Tooele Utah sodium carbonate, sodium cyanide, zinc sulphate, and thiocarbonyl are used in the lead section.

Junior Promenade

That there is to be a Junior Promenade this year is at last assured by a meeting held recently by the Junior class. During this very important meeting a committee was appointed to work in conjunction with a committee from the Dancing Club. The purpose of these committees is to eliminate largely the difficulties encountered by the giving of a promenade by so small a class, and to enable the giving of a bigger and better promenade than ever before.

Committee meetings have so far set the date for the promenade around the last of May, possibly the last Saturday will be the date chosen. It is planned to hold the Prom at the Gardens with the Loomis Winter Garden Orchestra furnishing the music, although at this time neither the place nor the music has definitely been decided upon.

Did you know Wendel was a regular Bull Montana? He was seen throwing Goddard and Mayo out of the blueprint room.

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Harrer says: "All miners are not CAVE MEN."

Noel—Does the moon affect the tide?

Wendel (He knows)—No, merely the untied.

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PANNINGS

S. W. Ladic, '23, formerly Shift Boss at the Leonard Mine, Butte, has been promoted to shift boss foreman for the Andes Copper Mining Company, South America.

A. R. Templeton, '25, has returned of Butte from Chuquicamata, Chile, where he was employed by the Chile Exploration Co.

Frank H. MacPherson, '14, is in charge of the Mt. Washington Mine, Wickes, Montana, which was recently taken over by the Clark interests of Butte.

George M. Fowler, '12, who has been in the Joplin District, Missouri, for three months last past, has returned to Salt Lake, Utah.

Murl H. Gidel, '12, returned to Butte, April 5, from Kattowitz, Poland, where he had been making a five months' geological examination of the Von Geische properties for the Anaconda Company.

Hamilton Cooke, Jr., '12, Agency Director of the New York Life Insurance Co., Kansas City, Mo., writes, "Wouldn't I like to see the old "M" on Big Butte. Saw George Fowler last week. We helped build the "M."

L. L. Thompson, '23, Manager of the F. W. Woolworth Store at Emporia, Kansas, is the father of a new baby girl born December 17, 1925, Lois Jane Thompson.

Alfred J. Balmforth, '04, formerly chief engineer for the Calumet & Arizona Mining Co., at Warren, Ariz., has been promoted to Superintendent of the 85 branch for the same company at Valedon, New Mexico.

Owen F. Brinton, '05, formerly General Manager of the Jib Consolidated Mining Co., at Basin, Montana, is now General Manager of the Croff Mining Co., at Minersville, Utah.

Elmer Caldwell, '24, who was instructor and athletic coach at the Lima High School, Lima, Montana, last year, is at the Montana State University, Missoula, as graduate assistant in chemistry. He has been awarded a teaching fellowship at the University of Wisconsin for next year and will complete his graduate work there.

Theodore Pilger, '12, American

Trade Commissioner with American Embassy, is reporting on European industrial and economic conditions. His address is 21 Friedrich Ebertstrasse, Berlin, Germany. Pilger has travelled widely in the United States and in Europe. Listen to this from one who is well known as a keen observer: "From what I have seen I have no hesitancy in writing that Montana has the Greatest Mining School in the World. I hope that you will give this statement the fullest publicity until you have opened the people's eyes. Give my best regards to all."

EVANS' ADDRESS TO ALUMNI

(Continued from Last Issue)

The Katanga is rich in copper and has a known mineralized area 200 miles long by 50 to 60 miles wide, many more mines will be found and the copper production will be increased. The English, who have ever been jealous of the American control of copper, are now busily engaged in intensive copper development in Northern Rhodesia. The closed area formerly owned by the Charter Company has been opened and two important copper companies have been formed. They are the Border Concession Copper Company and the Bwana Makuba Copper Company. I consider the former the most important. Both are directed by Americans and are very active. Recent discoveries made by them are of much importance and it is claimed that one or two of these have a possibility of equaling in size Chili Copper, providing the ore which has been found on the surface continues in depth. Eventually their copper will come on to the market, but not to any amount, within the next five years. In the meantime, the Katanga will also increase its output.

Much fear is expressed that the copper prices will be cut by these new low cost producers in order to sell their production. Personally, I cannot see any reason for this view. The consumption of copper is increasing annually, new mines are difficult to locate, and when found take years to develop. By the time these new properties are producing, the market will be ready for it, and it is wonderful what a little co-operation will do, as exemplified in the diamond business.

In conclusion, I hope that my few remarks may have entertained you and I wish each and every one of you to know that it has been a pleasure to be your guest and your hearty hand clasps and friendly greeting will be remembered. May your relations be pleasant and your services to the community many and much appreciated, and may you never grow weary in well-doing.

I thank you.

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