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Associated Students of the Montana State School of Mines

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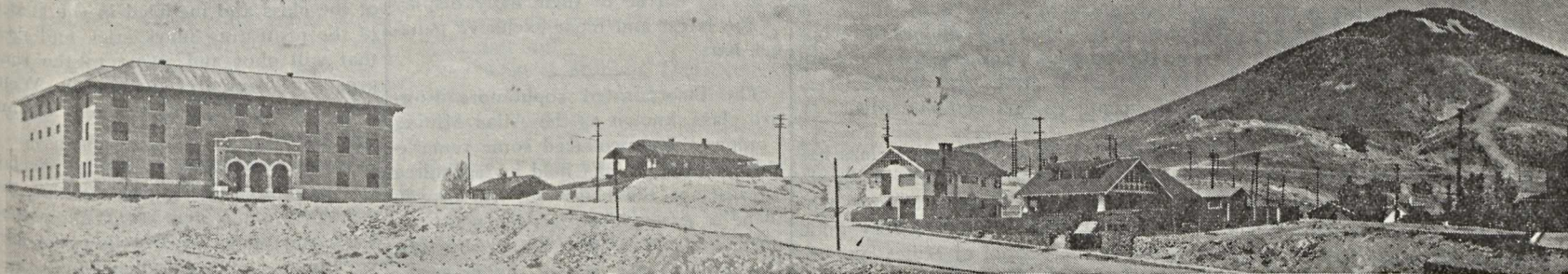
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The Acropolitan

A MONTHLY PUBLICATION BY THE MONTANA STATE SCHOOL OF MINES



Volume 2

BUTTE, MONTANA, JUNE 11, 1925

Number 7

MINES OFFERS STUDENT MANY ADVANTAGES

BUILDINGS, EQUIPMENT AND COURSES ARE BEST

As far as buildings and equipment for the type of courses offered are concerned, the Montana State School of Mines now ranks among the best small colleges in the United States. Several of the buildings would be welcomed with great joy on the campuses of many other mining schools. The equipment, though not present in as great quantity as is found at larger universities, is of exactly the same make and arrangement as that owned by the largest and richest institutions in the country. The students at Montana Mines have the right to feel proud of what their college can offer them.

Old Main Hall, erected in 1899, is a substantial, dignified brick and stone structure which at one time housed the whole institution. Two years ago it was remodeled and now provides space for the president's offices, the offices of four professors, the registrar's office, the library and reading room, the museums, the class rooms for mathematics, mechanics, physics, English, economics, geology and mineralogy, and the physics and mineralogy laboratories. Also the main locker room and lavatories are in this building.

The new Chemistry and Metallurgy Hall, completed two years ago at a cost of \$250,000, is considered the best for its purposes west of the Mississippi river. The abundant equipment for teaching chemistry and metallurgy is all new and entirely up to date. In the basement floor are the metallography laboratory, the supply store rooms and vaults, the showers and lavatories, and space for several research laboratories. The first floor contains the main metallurgy laboratory, the physical chemistry laboratory, a class room, a draughting room, and two suites of

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BIG "M" IS BRIGHT FOR ANOTHER YEAR

On Wednesday, May 6, there was considerable activity for a while on the southern slope of Big Butte. The occasion was the whitewashing of the "M". For some time previous Mines students had been remarking that the "M" was looking rather dull, and the seniors finally gave the word. They performed their annual task in a snappy manner.

Roll was taken at 9:15 in front of the main building. There were no absentees to mar a record of six years of perfect attendance. After this buckets, rakes, and picks were gotten out and the procession started up the hill. The hose cart borrowed from the Quartz street station, and in charge of Warren, Haughten, and Wiggenstein, was already at the foot of Big Butte and the hose laid out. It required an hour or more to even up the edges and fill up the holes in the big letter. Following this there was some delay until the lime arrived. Then the sophs and freshmen formed a line an eighth of a mile in length, and a continuous stream of lime and water began to pass up the hill. The seniors at the top, in charge of McGreal and Rudolph, made the whitewash and plastered it over the "M".

The actual whitewashing did not begin until 11:00 and it required until 2:00 o'clock to finish it. Upon completing the work the hungry Miners were treated to a tasty "M" Day dinner given by the Co-Ed Club. More than 125 were served under the direction of Miss Cohen, president of the club.

Throwing cans and "monkeyshines" in general were kept in check by a policing committee composed of Anderson, Ball, Selfridge, Thompson, Martin, Tait, Rudolph, Henrichsen, Quinn, Warren, and Sigler. Only three

MINES GRADUATES A CLASS OF EIGHT

JUNIORS HOLD ANNUAL PROMENADE

Affair Well Attended

The Junior Prom was held at Columbia Gardens on the evening of June 4, where, in spite of the rather disagreeable weather, about 600 guests enjoyed one of the most important and successful student affairs of the year.

The graduates were the guests of the juniors and they, as well as all who attended, agreed that the Prom would be remembered as one of the best that the Mines has ever had. Tex Howard's nine-piece orchestra rendered excellent music, and the appreciation of the guests were shown by continued applause after every dance. The programs were simple, but attractive, and the punch served was excellent.

The patrons and patronesses of the Prom were the following: President and Mrs. G. W. Craven; Professor and Mrs. A. E. Koenig; Professor and Mrs. Curtis L. Wilson; Professor and Mrs. A. E. Adami; Professor and Mrs. W. T. Scott; and Professor and Mrs. L. J. Hartzell.

The Junior Class arranged the details of the Prom as a single committee.

men roused the ire of this august body. They were paddled in proper form the next day.

The "M" is second in size of its kind in the country, and is 80 by 120 feet. Its thickness is estimated at three feet. The "M" was built in 1910 and was enlarged in 1912. It has been whitewashed every year since.

D. R. HULT DELIVERS THE COMMENCEMENT ADDRESS

On Friday evening, June 5, at the Butte High School Auditorium eight Mines men received their degrees showing that they have completed their courses in engineering. The following men received degrees in Mining Engineering:

George Lukashenko, Louis Marick, Charles McGreal, and Joseph Rudolph.

Degrees in Metallurgy were conferred upon: Adolph Salmonson, Leonard Swanson, Thomas W. Tait, and A. Russell Templeton.

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STATE ORATORICAL CONTEST AT HELENA

Henry Stanley, 1928, the School of Mines representative at the Montana State Intercollegiate Oratorical Contest held May 12 at Mount St. Charles College in Helena, failed to take one of the first three places, but made a good showing in what was considered the best contest in the State Oratorical Association has yet held. First place was taken by Richard J. Lally of Mount St. Charles with the subject, "Back to the Constitution"; second place by Robert D. Williams of Intermountain Union College with "Youth at the Bar"; and third by Winton Weydemeyer of Montana State College with "The Conservation of Montana's Natural Resources". Frank Ryan of Montana State University and William Keefer of Billings Polytechnic Institute were the other contestants.

The judges were Judge John A. Matthews of the State Supreme Court; John G. Brown, a Helena merchant

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The Acropolis

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Sophomores.....Herbert Wendell
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Co-Eds.....Andree McDonald
Athletics.....Albert Wiegenstein
Jokes.....Dave Moore

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. In all these we feel we have succeeded.

We have enjoyed our many exchange papers, and have received many helpful hints from them. We hope our paper has been of service to the exchanges. We trust that next year we will again have them all on our list.

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.

SENIOR NOTES

Charles McGreal of this year's senior class, received notice from the general offices of the Chicago Pneumatic Tool Company that he had been selected for training as a salesman for them, and that he should report at their Detroit factory on June 1. In recent years the larger machinery

companies in the United States have required their salesmen to be graduates of engineering colleges, experience having shown them that these men were much better able to solve the problems of machine installations to meet particular conditions than were non-technical men. Because these sales positions offer the opportunity for rapid advancement to high salaries they are eagerly sought by the graduates of engineering colleges all over the country and only the best of the degree men are selected by the companies and only from colleges of recognized standing. For this reason both the School of Mines and Mr. McGreal have cause to feel complimented.

Louis Marick of the senior class has received a Teaching Fellowship in Physics from the University of Washington. Mr. Marick has a very good record at the School of Mines, and we are certain that this will be an opportunity for his advancement.

The seniors are to be congratulated; all of them having good positions in view.

JUNIOR NOTES

The Junior Met's., W. B. Tanner, and R. W. Nesbitt, spent a week in Great Falls and Helena visiting the smelter and power plants under the guidance of Professor Wilson and President Craven. The class left Butte Monday morning, May 25, and returned on the following Friday, reporting a very successful trip.

During their stay in the Falls the class visited the Great Falls Smelter, Wire Mill, and Electrolytic Refining Plants, and also the Power Plants at Rainbow and Volta. Both the Anaconda Company and the Montana Power Company extended the visitors every possible courtesy and made their stay a pleasant one.

The class wishes to take this means of expressing its appreciation.

After leaving the Falls the class went to Helena, where they visited the Lead Smelter. The trip was also an enjoyable one, and the treatment received was very much appreciated.

The Junior Miners remained at home, and spent most of their time in the mines.

Godfrey Walker has received a position as cab driver with the Yellow Cab Company, and as yet no casualties have been reported, but just the same we feel that it is our duty to warn the citizens of Butte.

Brick Martin is planning on making a tour of the United States. We have an idea that this trip is going to be hard on shoes.

SOPHOMORE NOTES

As the end of the school year rapidly comes to a close, we begin to consider the possibilities of next fall. Our class has been diminishing steadily, until now we can boast of only five sophomores. We are, therefore, looking toward next year with anything but hopeful prospects.

CONDOLENCES

The faculty and students of the School of Mines wish to extend its sympathies to President G. W. Craven in his recent bereavement.

If we can place loyal faith in the modern saying, "The clothes signify the man", we may then classify Moore and Moran as sheiks of the highest order by virtue of their daily display of the latest and most exclusive Panama hats.

The incorporated sophomore English class, known as the Atlas Mining Company, has produced some remarkable results. It has held an unlimited interest for the class and has proven to be of great value. Of the many reports presented, the report by Mr. Warren was the best of the year.

Mr. Wiegenstein has composed a new and clever song, which starts and proceeds as "Ach, mine liber Weingenstien".

We wish to announce the plans of the members of this class for the summer and vacation months. Most of the members of the class will remain in Butte and pursue various ways and means of living and enjoyment.

Paul Eno has decided that he has seen enough of the Butte mines to satisfy himself for life, so he will either play the role of a country hick in the Big Hole hay fields or "go on the bum".

Boyce, Moran, Sawyer, Sigler, and Grant will possibly return to their homes in Anaconda, and work or play in that environment of strong winds and smoke.

Don Mayo is undecided as to whether he will stay in Butte or return to the sand hills of Miles City.

After a retirement of four months from work, Mr. Atkins will resume his occupation as car pusher in the quiet recesses of the Anaconda mine.

Charles Goddard will divide his time between the arts of cement-mixing and ranching.

Robert Dawson will again work in the employment of the Butte Street Railway Company.

The lure of the silent open places will possibly capture Weyerstall, who

has expressed a desire to go prospecting.

The mines of the Butte hill will claim the attention of the greatest part of the class and included in the crowd of the protesting muck stick and they that will abor and sweat to the tune groaning buzzy are Nightengale, Wendell, Moore, Vlassof, Warren, Quinn, and Owsley.

Wigenstein plans to spend part of his vacation working and utilizing the remainder on a trip to Yellowstone Park and upon the trip in plane surveying.

Thomson will undoubtedly live as a gentleman of leisure and make life worth while living for a certain Butte girl.

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FRESHMAN NOTES

This being the final issue of the Acropolis for this term, it is appropos to set forth an expression of the enjoyment which the members of the class have had in each other's companionship. We extend congratulations to the successful students, hoping that they may continue their well-directed efforts in the future, with top-notch enthusiasm and interest. We wish to see you with us again next year. There is certainly worthiness in continuing in our courses, which, this term, have been with great appeal to us. If the little understanding that we have acquired can be an asset to us, then a deeper comprehension can mean a great deal more. Let those who are leaving us be reminded that our opinion is that a partial success at the School of Mines does not make a failure of anyone. Every man to his own line. Time is infinite.

We went to Lost Creek Canyon to study geology last Thursday, and we were so well pleased with the excursion that we are glad to look forward to similar pleasures next term. Every one took a dip in Gregson Hot Springs on the return trip. The slight rain really lent "poetic" atmosphere to the occasion.

In the grand rush for jobs many of the boys will return to their homes in various parts of the Union. Here's wishing for good remuneration.

TAILINGS

When you procure some H2S
And other stuff as bad or less
And mix a frightful smelling mess—
That's preparation.

And when you take a bunch of stuff
And pour it through some paper rough
And half of it goes down your cuff—
That's filtration.

And when you dump some acids in
And shake it up and boil it thin
And stir it for a while like sin—
That's separation.

But when you've worked both hard
and long
And make report with courage strong
And Hartzell tells you it's all wrong—
That's thunderation.

—Exchange.

"What can I do to avoid falling
hair"
"Jump out of the way."

Cop: "Where are you going?"
Woozly One: "Don't tell me, mister. Let me guess."

A Question-heir.

"Dad, can I have a dime for the movies?"

"No, son. You've been twice this week already. Why don't you devote some of your time to reading and bettering yourself mentally?"

(Picks up Sunday paper and reads a minute.) "Dad, who is Einstein?"

"Why, er-er-er-he's the man who advanced the theory of the fourth dimension."

"What's the fourth dimension?"

"Why, that has to do with space."

"What do you mean by space, Dad?"

"Oh, nothing."

"And what is nothing, Dad?"

"Here! Here's a quarter. Get some candy, too!"—Judge.

Tommy: "This hotel is a fine place for a change and a rest."

Rot: "Yes, the bellboys get the change and the landlord gets the rest."
—Exchange.

A. S. S. M. ELECTION

The annual election of officers for 1925-1926 for the Associated Students of the School of Mines was held on May 20 with an unusually light vote cast. James Martin, 1926, was elected president, and thus will succeed Charles C. McGreal of the present senior class. The new student manager of athletics will be Godfrey Walker, 1926, who, as does Martin, hails from Butte. Cecil Waldron, 1928, was selected as secretary. He comes from Froid, Montana.

At the start of the year, two members of the executive committee will be elected at large. It is also probable that the office of vice-president will be voted upon again to remedy a technicality that arose in the election just past.

Wallace Tanner, 1926, who has edited The Acropolis a part of the past year, will be continued in that position. The associate editor, C. C. Goddard, 1927, and the assistant editor, Robert Dawson, 1927, also carry over to next year, under the arrangements for securing the staff. The others will be appointed in September, except Henry Nightingale, business manager, whose fine work this year has led the editor to offer him the position again without further delay. Nightingale will choose his assistant.

MEETING OF STATE BOARD

At the May meeting of the State Board of Education the question of the proposed first-year course at the

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School of Mines, the adoption of which was strongly urged by the Butte delegation, was submitted for investigation to a committee composed of Judge Sidney Sanner of Butte, Judge W. B. Rhoades of Great Falls, and Frank Eliel of Dillon. They are expected to report with recommendations at the July meeting of the board.

In the meanwhile the discussion of the proposition continues in Butte, where many people are interested in securing the additional subjects necessary to make a full college freshman year for all courses. The Mines students naturally are interested in the final outcome of the proposal, but thus far seem to have contented themselves with informal expressions favoring it if it can be made certain that the standing of Montana Mines as an engineering college will not be lowered. Most of the alumni seem to take the same stand, though a couple of former stu-

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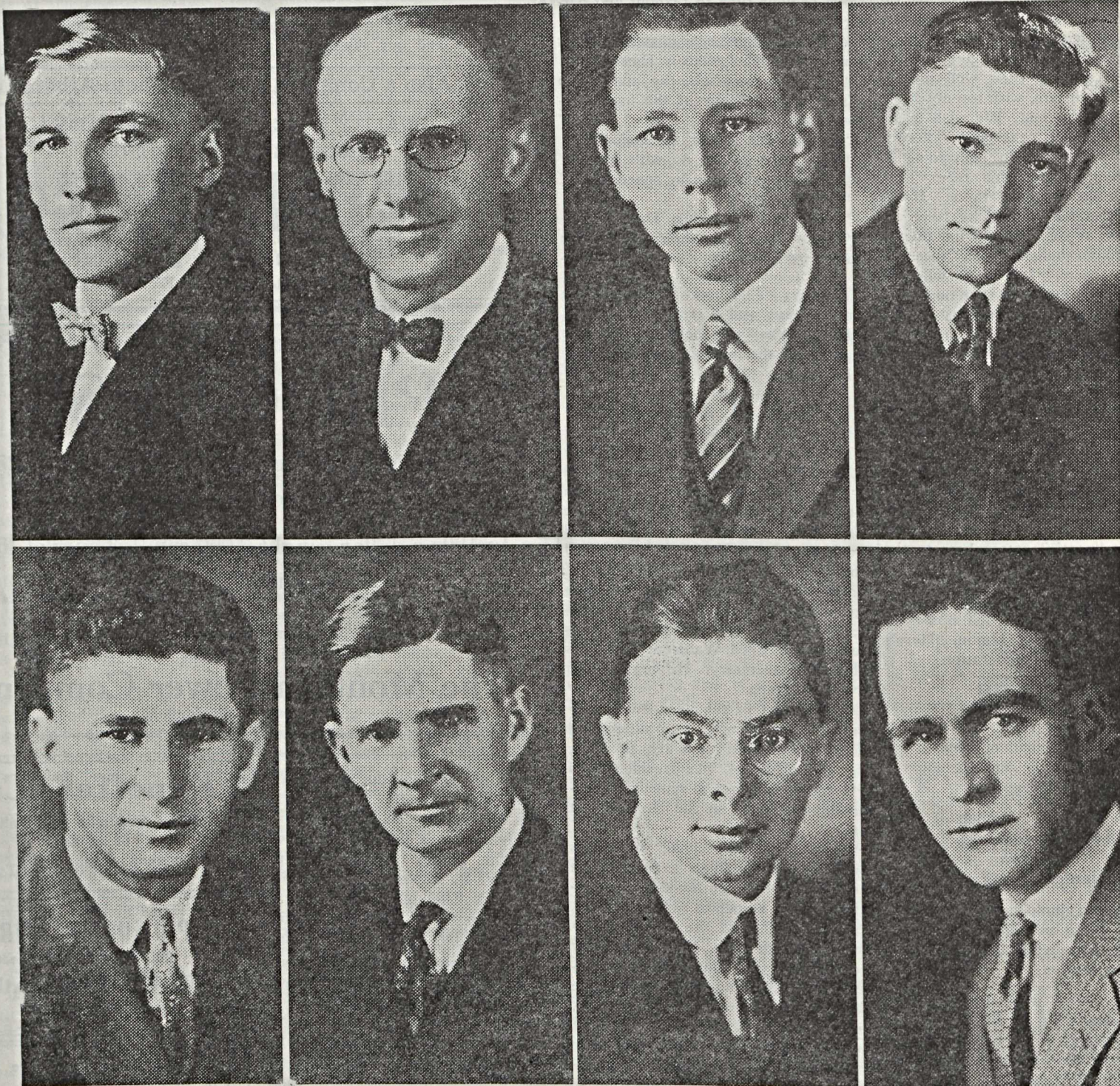
dent body spiel-binders are reported to be in hearty opposition.

Whether the plan goes through this summer or not, the School of Mines has received a lot of favorable discussion and publicity over the state. The inquiries about admission next September show that this is true and seem to promise the largest freshman class in the history of the Mines.



VIEW OF THE SCHOOL OF MINES

GRADUATING CLASS SCHOOL OF MINES



Above, left to right—Adolf Salomonson, A. Russell Templeton, Leonard E. Swanson, Louis Marick. Below—Joseph Rudolph, Thomas W. Tait, George S. Lukashenko, Charles C. McGreal

GRADUATE REVIEW

The members of the graduating class at the Montana State School of Mines this year resemble previous graduating classes in being men of rather varied experiences. None of them have made a mark in athletics as a member of high school or Ore Digger teams, the first time in years that this has been true.

Of the group of eight men, George S. Lukashenko has had the most interesting career. A native of Smolensky province, Russia, he prepared for college at the Gymnasium Viasmia and then had two years at the Mining Institute of Empress Catherine II in Petrograd. The Great War interrupted his technical training and he was sent for

a year of work under military direction in the oil fields of the Northern Caucasus region. In 1916 he was transferred on geological survey to the Platinum placers in the Ural Mountains. In October of that year he joined the army engineers attached to a Russian division, went to the German front, saw heavy fighting, was shell shocked, and was permanently discharged by February, 1917. His physical condition kept him from being conscripted into the Bolshevik army for the civil war period that broke out when Trotsky and Lenine overturned the Karensky government, but he was sent back to East Siberia to Sakhalin Island, where surveying, prospecting, geology surveying, and other duties fell to his lot from June, 1917, until

1921. A part of this time he acted as the assistant foreman of the Rogarty Coal mine, his work on Sakhalin, in fact, all have to do with coal. Managing to get out of Siberia in 1921, Lukashenko spent six months in Tokio, Japan, in the offices of the Russo-Japanese Mining Syndicate of Eastern Siberia, and then decided to come to America. He had a short stop in Hawaii, with some rough experiences mixed in, and finally landed for the summer of 1922 in the gold mining camp of Grass Valley, California. There, hearing of Butte and the School of Mines, he came here and enrolled to complete his technical course in mining engineering. Though handicapped by lack of knowledge of much English his work has been uniformly

good during the three years of his attendance and, in addition, he has earned every cent of his expenses. Mr. Lukashenko has an opportunity to go to Columbia, South America, to engage in mining engineering, but prefers to get employment for two years or so in this country, after which he plans to go back to Siberia or Russia where, he says, there are abundant opportunities in his profession if industrial conditions are sufficiently settled.

Charles McGreal, who received his diploma in mining engineering in absentia, graduated from the Butte high school in 1915 and was employed in Butte for a couple of years thereafter. He enlisted in the army early in May, 1917, spent nearly two years in France

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GRADUATE REVIEW

(Continued from Page Four)

with a signal service battalion attached to a French Air Service corps, and saw heavy fighting. After he was mustered out in 1919, Mr. McGreal entered the School of Mines, but was prevented from taking the work with his class to graduate with it. For two years he acted as private secretary to the president of the School of Mines while carrying at the same time one or two courses. The student body at one time and other have honored him with nearly every office within their gift, the past year selecting him for president. He also served as student manager of athletics and organized the Glee Club. A tempting offer from the Chicago Pneumatic Tool Company caused Mr. McGreal to leave for Detroit prior to commencement. His degree is in mining engineering.

Another mining course man with military experience is Joseph Rudolph. He was born in Russia, but his parents came to Butte soon afterwards and this city has been his home most of his life. He graduated from Butte high school in 1916, enlisted in the army after war was declared, and served as a private in a medical detachment at the United States General Hospital at Otisville N. Y. After the war he enrolled at the School of Mines, dropped out for a year, returning in 1922 to complete his course. Mr. Rudolph has been a member of the executive committee of the A. S. S. M., the student body organization, and the past year was editor-in-chief of "The Acropolitan", the School of Mines paper. He has not announced his plans for next year.

The fourth man to take his degree in mining is Louis Marick of Butte and a graduate of Butte high school in 1921. He is the ranking man in the class in scholarship and has held offices in his class, in the A. S. S. M., in the Dancing Club, and in the Anderson-Carlisle Technical Society. Because of his general ability, Mr. Marick has been appointed to a teaching fellowship next year at the University of Washington, and will report there after a summer spent at sampling at the Timber Butte Mill.

Among the four taking the work in metallurgy, Thomas W. Tait, a native of Howard, Montana, near Forsyth, saw active service during the war as corporal in Company B, 361st Infantry, 91st Division. He went through both the Meuse-Argonne and the Belgium fighting of that division. At the School of Mines he has been a vocational training man and, different from many "vocates" has shown the perseverance and the ability to obtain a degree. His plans are not yet announced.

A Russell Templeton, Adolph Salmonson, and Leonard Swanson all come from Anaconda high school in 1915, 1920, and 1921, respectively. All three obtained their interest in metallurgy from various experiences gained at the Washoe Smelter under the shadow of the big stack. They entered the School of Mines in 1921 and have ranked well as students. All three plan to continue work in metallurgy in connection with smelters either in Montana or farther afield.

COMMENCEMENT EXERCISES

(Continued from Page One)

President G. W. Craven presented the candidates for degrees to Chancellor M. A. Brannon, who awarded the diplomas. The Loomis Winter Garden Orchestra furnished the musical portion of the program. Rev. H. L. Bent gave the invocation and the benediction. Dr. Hult, president of the University of North Dakota, gave the principal address of the evening.

Dr. Hult's topic was, "The Supreme Test" and his lecture was a very fitting and interesting one. "Historically man has never been put to such a supreme test as now confronts him by reason of his access to physical power." This declaration formed the summary of the brilliant lecture of mature philosophy and profound thought that Dr. Hult so masterfully delivered and the entire audience was deeply interested in the message the Doctor brought the Graduates.

ORATORICAL CONTEST

(Continued from Page One)

and a former college orator; and Lester Loble, a Helena attorney and member of the Legislature. A crowd of nearly 500, the largest that has heard a state oratorical contest, was present.

At the business meeting which preceded the contest Prof. E. L. Freeman, Montana State University, was selected to succeed Father Emmett Riley of Mount St. Charles as president of the Association. Mr. Alvin Taylor of Intermountain Union College was elected vice-president, and Prof. Walter T. Scott of the School of Mines was continued as secretary-treasurer, an office he has held since the Association was organized. The only other business of importance transacted was the passing of a recommendation that the contest be held earlier in the year. Both Mr. Stanley and Professor Scott report fine entertainment by Mount St. Charles, the host of the contest.

Henry Stanley, with the oration, "The Three-fold Universe", won the School of Mines Oratorical Contest, held before the student assembly on May 3. His opponents were Wallace Tanner, 1926, with the subject, "America's Supremacy in the Air", and Thomas Lanphier, 1928, with "The American Forestry Problem". The judges were Prin. J. G. Ragsdale, of Butte high school; Father Leonard, principal of Butte Central high school; and Sam Parker, general secretary of the Butte Y. M. C. A., and awarded Tanner second place and Lanphier third. President Craven presided. The English Department awarded gold, silver, and bronze medals, respectively, to the contestants as they placed. The medals are of a special design for oratory and have been much admired.

The work in oratory closed what, everything considered, has been the best year in forensics the School of Mines has had. Victories were not numerous, but interest in debate and oratory were awakened and men were trained who should make a fine showing next year when they can add experience to the ability they had this year.

LAST MONTH'S CROSS-WORD PUZZLE

The chemical cross-word puzzle appearing on page 4 of the April 30 issue of the Acropolitan was contributed by Prof. L. J. Hartzell. The solution to the puzzle follows:

Horizontal.

1, Lanolin; 7, beta; 8, idea; 10, Ta; 12, ice; 14, egress; 16, mix; 18, Ni; 19, ate; 21, Ac; 22, rat; 24, tan; 25, rot; 26, Sn; 27, mesh; 29, egg; 31, iron; 34, tin; 36, oven; 37, enol; 39, area; 40, Waage; 42, Mn; 44, U. S. A.; 45, Nt; 46, ene; 47, red.

Vertical.

1, Lecithin; 2, ate; 3, Na; 4, Li; 5, ide; 6, negative; 7, bin; 9, arc; 10, Tm; 11, air; 13, Pt; 15, sun; 17, xam; 19, ane; 20, erg; 23, Te; 26, Sn; 28, steam; 30, Ga; 32, react; 33, on; 35, now; 36, ore; 38, Laue; 39, agar; 41, As; 43, Ne; 45, Nd.

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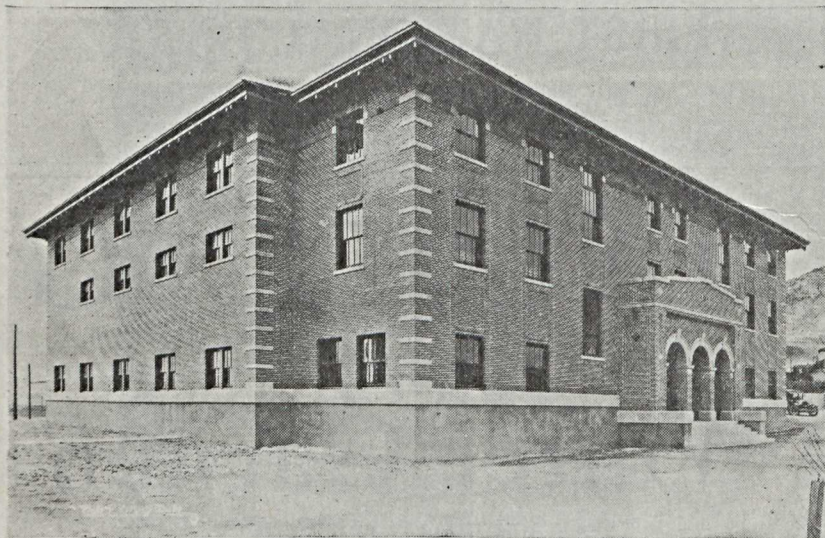
MINES OFFERS MANY ADVANTAGES

(Continued from Page One)

offices. On the second floor are the freshman and sophomore chemistry laboratories, the main chemistry lecture room, a smaller lecture room, the balance room, and two suites of offices. In the attic there is space for several more small research laboratories. Every desk in the laboratories is provided with water, gas, electricity, and compressed air. There are a multitude of other conveniences, many of them absent in the usual college laboratory.

The Mill building, the second oldest on the campus, was also remodeled two years ago. In the eastern third of it are the heating plant and the mechanics laboratory, the latter containing steam engines, electric motors, and generators. The western third now houses one of the best-arranged and equipped college assay laboratories in the United States. There are twelve

tunity for indoor sports and recreation. It is a source of pride to the whole student body and, for that matter, to everyone in Butte. The main floor is large enough for a full-sized basketball court and seats for 1700 spectators. On the running track above, nearly 700 more spectators may be accommodated. Even in the 1925 Mining District High School Basketball Tournament did not draw a crowd large enough to use all the available seating capacity. Such sports as indoor baseball, volley ball and indoor tennis can also be played here. The floor also provides a fine place for the School of Mines dances. On the running track floor there are a trophy room, a dressing room for social events, and the public lavatories. The first floor is divided up into the plunge room, the main locker room with adjacent showers, the co-ed locker room with adjacent showers, and two regulation handball courts. The handball courts have proved extremely popular and have had few idle moments since they were opened last January. The plunge is not yet installed, but will be the regulation



MINES NEW GYMNASIUM

coal furnaces, electric furnaces, and gas hot plates, grinding machines, expensive balances for fine work, and plenty of desk space. In between the two parts is a model mill for concentrating and treating ores, arranged according to the gravity principle to illustrate some fourteen different methods of handling ore. In connection with this, is a small model concentrator showing completely the steps in sequence through which ore may be sent. The machines in this model handle actual ore and get surprisingly accurate results.

What at one time was the old gymnasium was made over in 1923 into the new Engineering Hall, providing especially generous space for draughting and designing. There are four main rooms with accommodations for classes of 60, 48, 42 and 42, respectively. In addition, there are three offices, a locker room, lavatories on each floor, and store rooms. Occasionally one of the rooms in the Engineering Hall is used for small student gatherings of a social nature.

The new gymnasium, finished last year at a cost of \$125,000, supplies the Mines students with abundant oppor-

60 by 20 feet, with space around it to seat 200 spectators.

At the May meeting of the State Board of Education, the School of Mines was allotted \$50,000 from the 1920 bond issue to furnish and equip the gymnasium and to complete furnishing Engineering Hall. The money will be used as soon as the necessary bonds are sold.



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The one lack of the School of Mines now is a good athletic field. Back of the buildings is a level space sufficiently large for football practice and for scrub baseball, but it is not ample for a regulation fields. At present, football games are played at Clark Park on the South Side, the best arranged and managed athletic field in Montana. If, in the near future, the institution can secure a field within easy reach of the gymnasium, then Montana Mines need take a back seat for no small college in the country.

To men who are interested in engineering, especially in mining, metallurgy, or geology, Montana Mines is an attractive place. It is situated in a city of about 60,000 population, this including the suburbs, recognized as the greatest mining city on earth. Mines, mills, smelter, and large engineering works of various kinds are abundantly present. The student who must earn all or part of his expenses finds it comparatively easy to get work. The city itself offers plenty of amusements of interest to students. League baseball, school sports, theaters, comparatively league football, tennis, skating, high nearby hunting and fishing, hikes, golf, rifle and trap-shooting, all these and more are found in Butte.

The Acropolitian is proud to call the attention of this year's high school graduates to what there is to be had at the School of Mines. It is a Montana college and it is maintained for Montana young people. Leading mining men around the United States rank it among the five best mining colleges in the country, as far as instruction, preparation for students, and facilities for instruction are concerned. Why go out of Montana to secure what you can get as well, or better, and certainly cheaper, right here in your own state?

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CO-ED NOTES

Well, let's see,—we have been quite busy since the last issue. In fact, we've been doing just "gobs" of things. We have only had one regular meeting, and it was held at Miss Russell's home, April 29. We had a most lengthy business meeting, 'cause we had so many plans to complete. But, after much discussion, we finally dived into a Mah Jongg game. Catherine Arthur had Lady Luck on her side and, of course, she won the prize. We had the best eats; and then, much to our regret, we wended our weary way home. (The way home is not generally weary when you wish to go there.)

And, O Boy! did you hear about our parties? They were just slick! The first one was held at Claudia Woodward's, May 13, and we did have the best time. No one wanted to go home. The only reason that they finally did go was because Professor and Mrs. Adami were our guests and most of the boys had an important engagement with him in the morning.

We had another party, too. It was at Jane Freund's home. And we had fun there, too. We have only one regret—it's just a memory now. Professor and Mrs. Scott were our guests this time.

Everything has an end—even the Co-Ed parties, and we are going to have the last one soon. We are sure we will all have a good time, and that it will give us some pleasant memories to carry with us through vacation.

CO-ED NOTES

(Continued from Page Six.)

Our Co-Ed Club is rather full of confidence in that we feel that we have accomplished a great deal during the short year. Our Co-Ed Dance was our big event. It was very successful. And we are optimistic enough to think that next year will be even more successful. The first plunge is generally a good test. Then, we think our parties have been highly successful, too. They were something new and, of course, can be improved upon, but we have so much time, and everything was so encouraging. And our "stag" parties! More jollifications! They were something we'll not soon forget. "M" Day surpassed our expectations; everything went so well. Here's luck to those who take our place next year. We didn't realize what a good time we could have, and we hate to think of it ending. May all other Co-Eds enjoy themselves as we have.

Dan: "Ullo, Bert! I tho't you said you was sending us a chicken for Sunday's dinner?"

Bert: "So I was, Dan,—but it got better."—Denver Parrakeet.

FORMER STUDENT IS BACK FROM CONGO

With the Kantanga mines of the Congo district of Africa producing about 22,000,000 pounds of copper a month, this section of the dark continent will soon be one of the most important factors in the copper world, as an immense policy of expansion is under way for greatly added output, according to James Evans, Butte-born young man, who arrived in Butte a few days ago to spend four weeks with relatives and friends before returning to Africa.

Mr. Evans, who graduated in the 1909 class at the School of Mines and who left a few years later for Africa, has had a varied career since he became associated with African operations. He left Butte about 14 years ago to take charge of a gold property in Africa, then became associated with the big copper company there, to be later transferred and made a chief executive of the diamond fields in this section of the world. While the copper and diamond corporations are different companies, many of the stockholders are in both concerns.

Diamonds were first discovered in the Congo region in 1909 and one section near the headwaters of the Zambesi, which district is in charge of the Butte man, is more than 300 miles long with an average width of 100 miles. Asked as to the diamond production of this area, Mr. Evans refused to answer but said that it first started as an American company, later to take in Belgian interests, and when the fields extended into Portuguese territory, directors from Portugal were added and stabilize output and price, English interests were included.

Surrounded by millions of blacks. weeks from mail service and thousands

of miles from civilization, the white colony of which Mr. Evans is a member has but 84 persons, of which but 8 per cent are Americans, 12 per cent English, 54 per cent Portuguese, and the remainder Belgians.

When seen at the home of Mr. M. A. Berger, 1119 Caledonia Street, Mr. Evans said that he was glad to be in Butte.

"Butte is looking fine," he said. "I bought a car in New York and drove it to Florida, then across country to Butte, and my home town looks more prosperous than the average city en route."

The young man, who has become an international figure on diamond-bearing ground, expert mining man and authority on African ways and customs, is proud of his 1909 graduating class.

Every member of that class is now holding a good position. Other members of that class are M. J. Loughran, county surveyor; H. J. Wiegenstein, city engineer; Ed Kane, foreman of the Diamond mine; Kenneth Kirby, chief engineer at the Anaconda mine; Peter Haynes, general manager of a group of mines in Missouri; William Young, superintendent of a mine near Maidx; Ira Peters and Emmet Malloy, both in the mining industry in California; Claude Johnson, with the Clark interests in Canada; Norman Stockett, an official of a Missouri mine; William Broleau, in charge of an insurance department in Helena, and Ralph Gillan is with the internal revenue department at Anaconda.

CORROSION OF METALS

A. E. Koenig

Probably as great a problem as the production of metals, "The Making of Metals", is the one of the prevention of their loss by corrosion, "The Unmaking of Metals". It is estimated that in the United States every year, eight to ten million dollars of valuable equipment, machinery, buildings, bridges, and other metallic structures are wasted away and the metal lost to us forever by the reaction of these metals with the atmospheric agents. The research work done on this problem to date has been spasmodic and disconnected. Yet there has been considerable progress in developing some fundamental theories which can be used as a basis for further progress. Recently the American Chemical Society has determined to get some systematic investigations made. A Corrosion Committee has been created by the National Research Council to coordinate the efforts of various investigators. To take stock of what we know, there were presented in the April number of Industrial and Engineering, some of the outstanding features of the problem in the form of a symposium on corrosion. There are a dozen articles on various features of the problem, all written by experts, but especially interesting is one by Frank N. Speller on "A Study of Corrosion Facts and the Electrochemical Theory".

The disintegration of a metal in the atmosphere is largely electrolytic. Water containing small amounts of salts, carbonic acid and other sub-

stances constitutes the electrolyte. This water may in some cases be only the thin film of moisture that clings to all surfaces that are exposed to the air. Different parts of a metallic surface in contact with this film of solution will set up differences of electrical potential. So we have batteries formed all over the surface, all of which are short-circuited through the body of the metal. In a battery there is always one metallic plate, the more active chemically, which goes into solution, that is, corrodes; and the other plate less active chemically where hydrogen or a metal plates out. On a metallic surface, with its film of electrolyte, in some spots the metal dissolves away and ultimately forms some oxide or basic carbonate, rust, and in other spots hydrogen tends to plate out. The hydrogen is usually oxidized to water by the dissolved oxygen from the air forming water. If the film of hydrogen gas were to accumulate it would hinder the electrolytic action.

(Continued on Page Eight.)

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In this column from time to time we have endeavored to reflect impressions from various sources that might throw more light ahead to guide us in our efforts to make this school known for what it is. Some illumination was thrown upon the subject for us by a recent editorial in the "Engineering and Mining Journal-Press", from which we quote, in part:

"If it is on the cards for any mining school to become unquestionably stabilized and pre-eminent, our judgment is that it will be a school in a small town or city, close to firmly-entrenched and stabilized mining industries and not too far from the industrial centers. Such a school must be endowed, and

not be dependent on annual state appropriations by agrarian legislatures. It will teach practical mining, with the scientific preparation; and it will keep in mind the cultural side and the problems of human intercontact. It will also consider mining as a business, as well as an art. It will have a faculty not of rule-of-thumb but of men who will awaken thought and yield inspiration. It will not turn out rough-neck graduates; neither will it turn out graduates who are ignorant of real mines and mining, and of the social problems, of the hardships and joys, of the life. It would be difficult to name such a school; but when it arises it will become famous."

It is certainly most encouraging to note how nearly our situation and characteristics parallel the idea set up by this famous journal. It will be gratifying to many of our graduates who have been so good as to give us the benefit of their opinions, who have emphasized to us our need of cultural subjects and treatment of human relationships. It is peculiarly pertinent at this time when the so-called "College Course" is being considered, because such a course will go far towards giving our under-graduates a few of those advantages which our graduates now demand in the light of their own experiences.

PANNINGS

The many friends of Arnold Borel, '23, are congratulating him upon being the proud father of a beautiful baby girl.

H. S. Gieser, '06, has returned from California and is examining properties in Montana, just now at Basin and near Philipsburg.

Walter Werelius, '21, writes that he is the guest of the Hospital for Contagious Diseases at Chicago, having been stricken with scarlet fever recently.

One of our recent visitors had met Donald MacLellan, '22, at Columbia and reported that "Mac" has had a very successful year in New York and is planning on coming west soon.

Walter Landwehr, '22, is in the geological department of the U. S. Smelting Co., with headquarters at Salt Lake. He writes that he is able to get about to many mining districts and that he sees George Fowler, '12, and Ellis Frink, '22, occasionally.

John E. Hunt, '15, left Butte last month for Mexico, where he has become connected in a responsible position with the Mexican Mining Corporation at Tezuitlan, near Mexico City. Mr. Hunt has been employed as a mining engineer by the Clark interests ever since his graduation, except for one year, when he was in charge of the Curlew property near Stevensville, Montana.

CORROSION OF METALS

(Continued from Page Seven.)

The corroding spots are like the zinc in an ordinary dry cell. The spots where oxidation of hydrogen goes on are like the carbon stick with its surrounding layer of oxidizing agent, usually manganese dioxide and the moisture film, wet soil, water, or moisture-holding rust are like the paste of zinc chloride, ammonium chloride, and flour that constitute the electrolyte of the dry cell.

The above is an attempt to put briefly the chief mechanism of the corrosion of metals in general, but iron in particular. The articles referred to bring out some of the details of the electrochemical processes as far as they have been worked out and some of the factors that influence the different reactions. These articles are well worth reading and will not be too technical for the average student to understand.

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