Class of 1912, Senior Class Book

Associated Students of Montana State School of Mines

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SENIOR CLASS BOOK
CLASS OF 1912
MONTANA STATE SCHOOL OF MINES
BUTTE, MONT.
SENIOR CLASS BOOK
CLASS OF 1912
MONTANA STATE SCHOOL OF MINES
BUTTE, MONTANA
WE, the Senior Class of 1912, have collected in this booklet a series of pictures and snap shots taken during our four years at the Montana State School of Mines. Now that our course is about completed we realize that our life here has been one of keenest pleasure and profit, no small part of which has been contributed by the many excursions among the mountains and mining camps of the West. Our collection is small but suggestive to each of us of the friendship which exists between the members of our class and the good fellowship which we have prized in the association with our teachers. Our work and recreations are also suggested in some of the pictures of laboratories, classrooms, mines and trails leading over the hills about Butte. Thus our little booklet is essentially our own souvenir, but we trust a few spare copies may interest some of our friends who have an interest in us.
THE FACULTY

CHARLES S. BOWMAN, M. S. - - - - - - - - Iowa, Chicago
President and Professor of Metallurgy

GEORGE W. CRAVEN, B. S. - - Massachusetts Institute of Technology
Professor of Mathematics and Mechanics

THEODORE SIMONS, E. M., C. E. - - - - - - Freiberg
Professor of Mining Engineering

DARSIE C. BARD, A. B. - - - - - - Harvard
Professor of Geology and Mineralogy

LESTER J. HARTZELL, E. M. - - - - Colorado School of Mines
Professor of Chemistry

EDWARD B. HOWELL, A. M., LL. B. - - - - Grinnell, Iowa
Lecturer on Mining Law

ARTHUR E. ADAMI, E. M. - - - - Montana School of Mines
Assistant Professor of Mining Engineering

EARLE B. YOUNG, A. M. - - - - - - Wisconsin
Instructor in Mathematics and Mechanics
Montana State School of Mines

Top Row: L. J. Hartzell, A. E. Adami, E. B. Young
ARTHUR F. BASSETT
"Jeff"

"Women, like princes, seldom find real friends."
A graduate of Yale with the degree of Ph. B., Bassett entered the School in the fall of 1911 with

OTTO B. CHRISTIAN
"Rube"

Otto Christian came from the Butte High School, graduating with the class of '07. He made an excellent record at the School of Mines. Much good will and many favors were gained by the class through Otto's favorable connection with the engineering department of the Anaconda Copper Mining Company. He is a gentleman whose congenial nature and pleasing manners have won for him a lasting place among many friends.

JOHN T. ANDREW
"Jack"
TREASURER

"And on their own merits,
modest men are dumb."

Jack was a graduate of the Parochial High School at Butte. He entered in the regular engineering course at the M. S. S. M. Quiet and unassuming, Jack was one of the brightest and most diligent of the class. However, he will most likely be a bachelor all his days. Tragedy!

a view to securing an E. M. Concentrated efforts have resulted in his making the best of his opportunities. The law of contrasts gives him the name of "Jeff." He is an able exponent of the terpsichorean art in all its forms.
JESSE E. COHEN
"Daffydills"

Jesse graduated from the Anaconda High School. He doesn't hold himself responsible for that. His school reputation is based upon his basketball ability. Among other accomplishments, Jesse has acquired the ability to roll a cigarette and smoke it with an ease and grace becoming a gentleman. A hard working student and an excellent fellow in every respect was Cohen—maybe.

HAMILTON ("Doc") COOKE, JR.

PRESIDENT

"Doc" joined the class of '12 in 1909, coming from Minnesota University, where he had spent his freshman year. He soon became the most popular man in the class with the professors as well as the students. As president of the class his execution of affairs was admirable. During the year 1911 he was manager of the football team. "Doc" was a member of the committee of three having charge of this book. "For he was a jolly good fellow."

WALTER D. CLINCH

"Willie"

"Willie" is a graduate of the Butte High School with the class of 1908. As a student he ranks as one of the best, and as a writer on original subjects he has few equals. His hobby is baseball, and as the pitcher in our famous Freshman-Sophomore game he will long be remembered. Some game.

MONTANA STATE SCHOOL OF MINES
EMMET CULLITY

"Mutt"

"Conspicuous by his absence."

"Mutt" prepared for his college course at Manual Training High School, Indianapolis. He has a knack of getting things seemingly without effort, and could sleep under almost any conditions, regardless of the noise of lectures or laboratory work. He made an excellent record on the football team, having won his "M" three years in succession. A lion in society and an all around excellent fellow was "Mutt."

GEORGE M. FOWLER

"Senator"

"Let George do it."

"Senator" is a Fergus County product and speaks well for the richness of the soil in that particular district. He attained the office of secretary and treasurer of the Dancing Club and the Athletic Association in 1909-10. His execution of the duties of these offices was the best in the history of the School. For making a pace the "Senator" had everything without wings beaten. The class of '12 is deeply indebted to him for his services as class photographer and as associate editor of the class book.

MURL GIDEL

"Maude"

"Maude" came from the Butte High School, class of 1908, with a good record which he has continued at the Mines. Always an excellent worker, Murl stands among those at the head of the class. Geology and chemistry seem to be his tendencies and in the laboratory or in the field he was ever to the fore. He always took an interest in school affairs and in the office of class secretary he rendered efficient service. His long suit is girls—some heart breaker.
ETTORE GIOVANETTI
"King"
"Aye, every inch a king."
The Butte Business College furnished "Joe's" early schooling. A "math. shark" is his nom de guerre. The calculi were his hobbies. You couldn't stick Joe. He was popular without knowing it. A good hearted fellow and often a life saver to the boys. Joe will always be pleasantly remembered. A king for a night at Elkhorn was one sweet taste of fame and honor for Joe.

CHAS. W. GRUPE
"Comrade"
VICE PRESIDENT
Charles is a graduate of the Fergus County High School. He was elected captain of the football team of 1911, after an excellent record on the team in former years. A man of action was this Grupe, having no time for trifles. You could tell from the way he talked he had something on his mind. Charlie was an associate editor of the class book. "What are you laughing at?"

PAUL K. WILLIAMS
"Laughy"
"May blessings light on him who first invented sleep."
"Laughy" came from the Butte High School, '08. For general excellence in all his studies Paul was one of the best. The rare accomplishment of being able to take in a lecture through one ear is given to "Laughy." "Sleep, it is a gentle thing." Paul was an excellent football and baseball player. A smile he had for everyone.

THEODORE PILGER
"Spike"
"How he will talk; good God, how he will talk!"
Coming from Golden, Colorado, "Spike" joined the class in 1909. His excellent school spirit coupled with business ability won him "the honor" of managing the football team last fall. As a "hot air merchant" and an all around peddler of "that stuff," Spike has but few equals. His thirst for knowledge seemingly never abates. To argue for argument's sake has never been his falling. Beware!
TWENTY students began the course with the Class of '12: Andrew, Christian, Cohen, Culity, Clinch, Craig, Fowler, Gidel, Giovanetti, Grupe, Gervais, Hansen, Hartsuck, McAuliffe, Newton, Pierse, Tilton, Voyer, Williams and Wright. Classes began immediately after registration day and lessons were attacked with a zest which has seldom been equaled, as each freshman strove for a creditable "stand in." The first impression of social relations between students of the school was that of good fellowship, the true western spirit of democracy being in evidence. The first event of general interest was the Freshman-Sophomore football game, which took place during the second week of school. It was a hard fought contest throughout, but the sophomores as usual seemed to "have something on" fairly good records and the final exams were satisfactory.

At the end of the first semester came the holiday vacation of two weeks. This time was spent by some in visiting at their homes, while others remained in the city. Among the latter some worked in the mines, which afforded them financial aid as well as experience.

About sixteen of the original class registered for the second semester. New resolutions were made and the routine work was taken up with vigor. As spring approached, the freshmen's thoughts turned to baseball. The abundance of good material in the class was bound to make itself known and a team was organized. The sophomores with egotism and lack of foresight posted a would-be scathing denunciation and challenge to the class of '12. This was met with a fitting reply and the game was scheduled. The only possible result followed and the sophs went down
to ignominious defeat by a score of 24 to 3. The freshmen “showed up” so well that the seniors, among whom were most of the “varsity” team men, drowned their dignity with jealousy and demanded a game. This was the real contest of the year, and after ten innings the game ended in a 7 to 6 victory for the seniors. No excuses,—but the admissions of the seniors will be remembered.

The close of the school year came only too quickly and the last days were crowded with many events. The all-important finals were a source of worry until disposed of. Social events, chief among which were the Junior “Prom” and commencement, occupied the attention previous to departure.

After a month’s vacation, the freshmen field survey began. The crowd, with their outfits of bedding, tents, etc., boarded the train for Bernice, Montana. Camp was pitched three miles north of the station near the ranch of “Hon.” Sam Jones. The ranch is located in a narrow valley rich in vegetation and watered by Red Rock Creek. On either side rise steep ridges clad with evergreens. The tents were pitched in the midst of a clump of pines near the ranch house. Everything about the camp was arranged in a true sportsmanlike manner, ditches being dug around the tents and beds of evergreen boughs arranged.

The work of surveying was begun immediately. The class was divided into squads of four, each squad being provided with level, transit, rods, tapes, etc. The various pieces of work done by the squads were as follows: A preliminary traverse survey with elevations of each station; a larger traverse survey with elevations, which was later used as a basis for a topographic sur-

v; a railroad survey, taking sections and laying out curves, triangulation upon the mountain peaks; survey of ditch line; tram line; mining claim survey, and laying out a mill foundation. Besides this, weir measurements were taken on the stream. One task was no sooner finished than another was begun. The several members of the squad changed places, becoming rear chainmen, head chainmen, note taker and transit man in succession. The work each day lasted from eight until four.
US found the swimming pool for a plunge. Only a few moments’ grace were allowed the lagging ones, then breakfast and to work by eight. By four o’clock each day’s work gave place to amusement, and to the proper initiation of one who showed “cold feet” tendencies toward the application of the recreation facilities. There were swimming, fishing, hunting and all the attractions of mountain life. Evening

except for an hour at noon. Part of the evenings were used for notebook work.

The out of door life and the abundance of wholesome food provided by “Hon.” Sam, together with the beauty of the surroundings, all were conducive to a good humor verging on hilarity most of the time. It was a contest between “eat, sleep and be merry.” Between the early morning rays and Mrs. Sam’s breakfast bell at seven most of

found “the bunch” gathered around the camp fire listening to the flights of fancy of “South Dakota” Peterson, with humorous interruptions by the “Hon.” Sam. Jokes were cracked, yarns were spun, and songs sung in the good old-fashioned way. Finally the quieting hush of the pines held sway over the merry making and the cool mountain air induced sleep, a reaction

which did justice to the activities of the day.

During the stay the boys made several long trips to Boulder Hot Springs and other points of interest. But like all good things it could not last forever, and reluctantly camp was broken and a happy, sunburned crowd returned home the last of July. All praise to Professor Simons and Messrs. Haines and Adami, who made the trip very highly instructive as well as enjoyable socially.
MONTANA STATE SCHOOL OF MINES

MINERAL MUSEUM

CHARLOTTE RUSSELL, REGISTRAR AND LIBRARIAN

LIBRARY
CYANIDING

SCHOOL LABORATORIES

ORE DRESSING
THE RICHEST HILL ON EARTH

THE ANACONDA HILL—A PORTION OF BUTTE'S MINING DISTRICT
FOURTEEN of the original twenty were enrolled as a Sophomore class in September, 1909. This number was augmented, however, by the addition of Hamilton Cooke, Jr., and Edgar Wild, the former coming from the University of Minnesota and the latter from the University of Wisconsin.

Good natured rivalry in athletic sports added to the wholesome good fellowship throughout the year. Among the more notable events of the year may be mentioned: Sophomore - Freshmen football game at Columbia Gardens, 10 to 0 in favor of the Sophomores. The basketball games left us tied with the Freshmen. In baseball we were defeated by the Freshmen with a score of 24 to 15. It was in May of this year that the huge "M" on Big Butte was laid out and painted. As originally constructed this letter was 68 feet in height by 75 feet in length and could be seen for miles. It has since been enlarged so that its dimensions are now 86 by 91 feet.

During this year our school work took on something of a professional air. In chemistry our work had passed beyond the stage of qualitative results and general reactions, and our professor introduced methods of analysis dealing especially with ores and smelter products. With it all the elements of speed and accuracy were introduced, which gave us quite an air of importance. Then there was the work in mineralogy, the mysteries of the mines and our beginning in geology, all of which placed us on a splendid talking basis with prospectors and mining men. In the meantime our Professor Simons introduced us to the note books he had collected in former years in surveying in the Anaconda mines. Here we were given further application of our knowledge of trigonometry and descriptive geometry. And finally we were taken to the J. I. C. mine and given the task of actually surveying a mine and drawing the map. Here again the idea of speed and accuracy prevailed, and we were given an insight into what a real day's work for an engineer meant. For one thing, it meant going underground at eight o'clock and keeping busy with the outlined work throughout the day.

At the close of the year all of us felt that we had earned the right to the relaxation of a vacation. However, most of us found opportunity to occupy part of our vacation time in working in the mines, furthering our acquaintance with mining methods and experience as miners.
WASHOE SMELTER AT ANACONDA

THE LARGEST COPPER SMELTER IN THE WORLD
Our Junior year was characterized by more extensive visits to mines and reduction plants, together with considerable practical work in the geological field.

All of this work, while enjoyable, was given a serious air by the requirement of accurate reports cheerfully prepared and covering the features of the visit. Our class work also reached a stage of application which made it more interesting. The long year of calculus just past was now justified by its application to mechanics as found in structures and machines of various kinds. The mechanics in turn had its application to hydraulics and to our work in designing as carried on in the drawing rooms. Our laboratory work was now confined entirely to practical work on ores. A thorough drill in assaying was followed by a list of experiments involving the chief reactions in most of the important reduction processes. There was concentrating, roasting, chloridizing, cyaniding, etc., all of which pointed to the finished end which was gradually coming into view. The various excursions were the features that the class looked toward as the great treats of the year. Several trips were taken to the Washoe plant at Anaconda, the last one extending over a period of a week. During this time each member of the class was assigned a definite work each day by Professor Bowman, who had the work in charge. When the reports were finally collected each of us had a complete account of all the more important operations. Our knowledge was accompanied by a familiarity with the practice which certainly added to our confidence in the knowledge we had gained. A like time was spent at the smelter at Great Falls. At both of these places the courtesies extended to us by the management of these plants, as well as by the foremen and workmen, will always be gratefully remembered. Cordial conversations about the details of various operations during the day, and hospitable reception to their clubs and recreations during the evenings, have left impressions never to be forgotten.

Other features of these trips were a detailed study of the Rainbow Falls power plant, the making of silica brick at the brick plant of the A. C. M. Company, and a study of the shops of the A. C. M. Company, where much of the mining and smelting machinery used in the district is manufactured.

One of the valuable trips of the Junior year was the geological excursion to Elkhorn under the direction of Professor Bard of the Geological Department. An entire week in April was given over to the mapping and studying of this famous mining district. The study of the Elkhorn mine and of surrounding properties was greatly facilitated and the trip was made doubly enjoyable by the courtesy of the Elkhorn Miners’ Club who spared nothing to make our visit profitable.

We must not omit the climbing of Crow’s Peak on Easter Sunday. An early start, followed by a long struggle through
snow, often waist deep, over rocks and along ravines, but ever upward, brought us shortly before noon to the summit, 9,500 feet above the sea. Of course we all had to write our names on a slip of paper, which we carefully placed in a tin can near the government monument. To what purpose was this arduous climb if the world should never know of it? And then came the descent. It was one continuous scramble, not to mention the 1,000 foot slide for life down the hard snow. Were the ham and eggs and “spuds” good that night at the Elkhorn feed house? Ask the fellows.

To the Geological Department we are indebted for another profitable occupation during the spring months. Each student was assigned an area of several miles near Butte which he was to cover carefully for the purpose of geological mapping. It was a familiar sight to see the men, with hammers, collecting bags, etc., start for these sections, and the final reports and maps now on file in the Geological Department give an abundance of proof of the great value of this work to the students.

But all these activities pale into insignificance as June 1st draws near, and with it the date of the Junior “Prom.” For months we have been saving our dollars and have vowed that our “Prom” shall excel all “Proms” of previous classes. We chose our committee carefully, our girls more carefully still, and haunted the tailor shops and the flower stores. The big night came with perfect weather and every detail completed to our satisfaction. The flowers, the girls, the music—well, it’s no use to try to tell about it. One must go through with it to get all the sensations. And thus we closed our third lap in the race for our diplomas.
POINTS OF GEOLOGICAL INTEREST ARE NOT ALWAYS THE MOST ACCESSIBLE
AFTER a summer spent in the mines, smelters and mills of Montana, we returned to our last year's work fully awake to the responsibilities of the Senior and the possibilities open to him. Our work during this last year was to give us the latest, most practical knowledge in the various fields of mining, ore-dressing, metallurgy, power utilization and geology.

We were to take many trips to places of interest to a mining engineer, these to supplement our theory by observations on practical methods. We were thrown more upon our own resources than ever before and we were made to see the value of originality in all lines. The thoroughly equipped mill at the school became our laboratory where many kinds of ore in several ton lots were treated by various important commercial methods. We were allowed to develop our drawings by designing complete plants. Steam, compressed air plants, electric power stations and substations, and more remote geological areas were visited frequently by the class, now organized as the Sketch Club. On these trips our attention was always called to the individual problems of the plant or mine and to the originality shown in meeting peculiar conditions. On every side we were brought face to face with the great possibilities open to an alert mining engineer and the need of exact practical knowledge combined with the power of logical thinking.

Our first trip (an automobile trip, by the way, thanks to President Bowman) which was to the East Helena Smelter, was of importance because of the many facts brought out in connection with lead smelting at this plant of the American Smelting and Refining Company. And we might add that the State Fair was not the least feature of that trip.

A month later saw us at Marysville, note book in hand, eagerly looking for the secrets in the methods used at the St. Louis mill, where gold sands and slimes are treated by amalgamation and cyaniding. The courtesy shown us at this mill, as at all places visited by our Sketch Club, was always a source of pleasure and a material factor in making our visits valuable.

A four-day trip to the coal mines at Roundup revealed a phase of mining new to many of us. Professors Bowman, Bard and Simons accompanied us on these trips and by their knowledge were able to plan our work most efficiently. Our trip was made doubly effective by visits to mines in which the methods of operation were entirely different. The geology of the coal area was also of much interest.
Not content with this, Professor Bard hurried us away to Philipsburg, that veteran mining camp of Montana. Here we spent an entire week filling our minds, note books and collecting bags with things, historical as well as geological. Professor Bard’s early morning attempt to make more modern history at the old camp did not always meet with our approval. However, he was the czar, and we had no recourse. But wasn’t our revenge sweet when it did come some two weeks later?

Our last week at the school was made memorable by an automobile trip to Ruby and Alder Guleh, that famous stamping ground of the early sixties. And here again we must express our appreciation of President Bowman’s kindness and his generous use of gasoline in our behalf. The big dredges were working beautifully, and besides yielding much fine gold they yielded a few ideas for our future benefit.

Professor Craven’s trips to the electrical stations and substations, where power at 100,000 volts is the latest word, were eagerly taken and appreciated by us as much as our capacity would allow.

As Seniors it would have been improper to give all our time to studies. We owed much to the school and were more than willing to help, as we might, in properly adjusting and bringing to its proper place, that mysterious element of all schools, college spirit. Grupe, in the capacity of captain, gave the football team his special attention. Cooke, our much loved (by the girls) president, took it upon himself to keep things running smoothly and with the proper amount of grease. ‘M’ day was engineered by our efficient committee in a manner which should be an example to all future classes. Freshmen were properly coached in the behavior and requirements of the embryo engineer, and even members of the faculty would at times consult our wisest members or explain to them for an unwise act. In fact, we were the mainstay of the school throughout the year, and as we leave with our bulky sheepskins we wonder “What will they do without us? Can the M. S. S. M. continue without the brainy brawn of 1912?” We have tried to do our duty as we saw it; we have received many an inspiration and kindly word of advice; we owe much to the school of our choice; and with malice toward none realize that we have developed even as we have given of our own energies. We wish her well and an unbroken succession of worthy senior classes.
MONTANA STATE SCHOOL OF MINES

GYMNASIUM
By a process of natural selection the students of a mining school are capable of vigorous athletics, the very nature of their intended profession requiring that they be sound of body as well as of mind. Many of their studies demand physical strength and endurance, such as field excursions in geology and surveying.

But aside from such working athletics, many of us found time and energy for competitive sports. Football, basketball, base ball, track athletics and gymnastics all had their devotees who were efficiently trained under the direction of Mr. Thomas Robbins. Worthy antagonists were found in rival teams from Montana and neighboring states.

During the past year the school's new gymnasium has been available at all hours and our recreation periods have witnessed many lively tilts at hand ball and basket ball.

We cannot say that the spirit of our alma mater leans so strongly toward competitive athletics as many modern day schools, but we have had plenty of such diversion for our own enjoyment and profit, and is not that after all the chief purpose of such sports?
FROM ORE TO METAL

FROM STEREOGRAFHS BY N. A. FORSYTHE
SCHOOL LABORATORIES
A GLIMPSE OF BUTTE FROM THE LIBRARY WINDOWS