

MINNESOTA

1911-1912

SEPTEMBER, 1911							MARCH						
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17	18	19	20	21	22	23	17	18	19	20	21	22	23
24	25	26	27	28	29	30	24	25	26	27	28	29	30
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OCTOBER							APRIL						
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NOVEMBER							MAY						
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DECEMBER							JUNE						
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24	25	26	27	28	29	30	30	--	--	--	--	--	--
31	--	--	--	--	--	--							

JANUARY, 1912							JULY						
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28	29	30	31	--	--	--	28	29	30	31	--	--	--

FEBRUARY							AUGUST						
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18	19	20	21	22	23	24	18	19	20	21	22	23	24
25	26	27	28	29	--	--	25	26	27	28	29	30	31

All Mines Men are cordially invited to the
Annual Reception to New Students
 tendered by the Mines Christian Association, Friday evening
 September the eighth, nineteen hundred and eleven
 from eight to eleven

Greeting

The Young Men's Christian Association, through this hand-book, extends to the new students of the Colorado School of Mines, a most cordial welcome.

The time of entering upon a College course is always a critical period in the life of any man, a good deal depending upon the kind of a start he gets. We will be only too glad to help you in getting suitable rooms, boarding places and in registration.

You are now entering a field of broader and deeper responsibilities to yourself and to your fellow man. Why not make that field also higher and one in which the right kind of lasting friendships will be made? We offer you, in the Association here, a means of establishing such a field and sincerely hope you will become one of us to help and be helped thereby.

ARNOLD W. HARRIS,
President Y. M. C. A.



PHOTO BY BASSELL

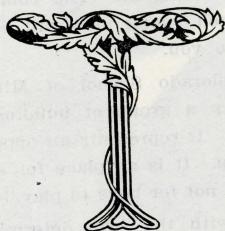
201 MC CLINTOCK BLK.

JAS. B. WATSON
GENERAL SECRETARY Y. M. C. A.
SCHOOL OF MINES

1911-1912

— — — — —

The **MINES**
HAND BOOK
VOL. X



PRESENTED BY
The Young Men's Christian Association
of the Colorado School of Mines

— — — — —

The Majestic Printers, Denver, Colo.

Greeting

The transition from High School to College is an important step in your life. From this time on you must, to a great extent, depend upon yourself. Do not waste your time, your money, or your energies. You are entering a new commonwealth—composed of young men of your own age who are striving for the same ideal you are aiming at. The community life of such young men will be most helpful to you.

The Colorado School of Mines is more than a group of buildings and a faculty. It represents an opportunity for you. It is a "place for men to work and not for boys to play."

Come with the firm determination to make the most of every opportunity offered you. The Y. M. C. A., the Faculty, the Trustees are all interested in your welfare and will give you every aid and encouragement in their power.

VICTOR C. ALDERSON.

President Colorado School of Mines.



PRESIDENT ALDERSON

SCHOOL CALENDAR

1911.

August 30, 31, and September 1.—Examinations for entrance to the class of 1915 and re-examination of matriculated students.

Tuesday, September 5.—Opening of the First Semester of the Academic year 1911-12.

Thursday, Friday and Saturday, November 30, December 1, 2.—Thanksgiving Recess.

Thursday, December 21.—Christmas Recess begins.

1912.

Wednesday, January 3.—Christmas Recess ends.

Saturday, January 20.—First Semester ends.

Monday, January 22.—Second Semester begins.

Monday, February 12.—Lincoln's Birthday, a holiday.

Thursday, February 22.—Washington's Birthday, a holiday.

Friday, May 22.—Second Semester ends; Commencement Exercises.

Monday, May 25.—Field Surveying begins.

Saturday, July 5.—Field Surveying ends.

FACULTY—1911-12.

- Victor Clifton Alderson, Sc. D.
President
- Paul Meyer, Ph. D.
Professor Emeritus of Mathematics.
- Horace B. Patton, Ph. D.
Professor of Geology and Mineralogy
- Herman Fleck, Nat. Sc. D.
Professor of Chemistry.
- F. W. Traphagen, Ph. D., F. C. S.
Professor of Metallurgy
- Charles R. Burger, A. B.
Professor of Mathematics
- William F. Allison, B. S., C. E.
Professor of Civil Engineering
- L. F. Miller, M. A.
Professor of Physics
- William J. Hazard, E. E.
Professor of Electrical Engineering
- R. B. Otis, B. S.
Professor of Mechanical Engineering
- William G. Haldane, B. S.
Associate Professor of Metallurgy
- G. Montague Butler, E. M.
Associate Professor of Geology and Mineralogy.
- Charles D. Test, B. M. E., A. C.
Assistant Professor of Analytical Chemistry
- John C. Bailar, B. S.
Assistant Professor of Qualitative Analysis.
- G. E. F. Sherwood, A. B.
Assistant Professor of Mathematics

- Ranson S. Hawley, B. S.
Assistant Professor of Mechanical Engineering.
- William S. Medell, B. S.
Instructor in Chemistry
- Harry M. Showman, E. M.
Instructor in Mathematics
- Robert M. Keeney, E. Met.
Instructor in Metallurgy
- Siegfried Fischer, B. S.
Instructor in Physics
- F. S. Titsworth, E. M., LL. B.
Lecturer in Mining Law

FELLOWS.

- A. T. Mertes, B. S.
Fellow in Chemistry
- C. A. Rockwood, B. S.
Fellow in Chemistry
- C. D. Heaton, A. B., M. S.
Fellow in Geology
- T. C. Doolittle
Registrar
- Mable Claire Shrum, B. L. S.
Librarian
- Alice Lyle
Secretary to the President

BOARD OF TRUSTEES.

PRESIDENT

Frank Bulkley, E. M., Denver.

SECRETARY

James T. Smith, Denver.

F. C. Steinhauer, E. M., Denver.

W. J. Bennett, Golden.

Franklin Gutterman, Denver.

Harry M. Rubey, Treasurer, Golden.

General Information About the College

REGISTRATION

The President's office on the main floor of Guggenheim Hall will be open for registration on Friday, September 1; Saturday, September 2, and Monday, September 4. Here the registration slip and program must be made out and accepted by the President. The registration slip with the President's signature is presented at the Registrar's office directly across the hall, where the fees and deposit for ensuing semester are paid. The Registrar's receipt indicates the studies you intend taking, and must be shown to the professor of each class you wish to enter.

BULLETIN BOARDS

The most important bulletin boards are located in the main corridor of Guggenheim Hall.

The **Faculty Board** is the larger glass covered case, and in it are placed all official announcements. Students are held responsible for a knowledge of all official notices.

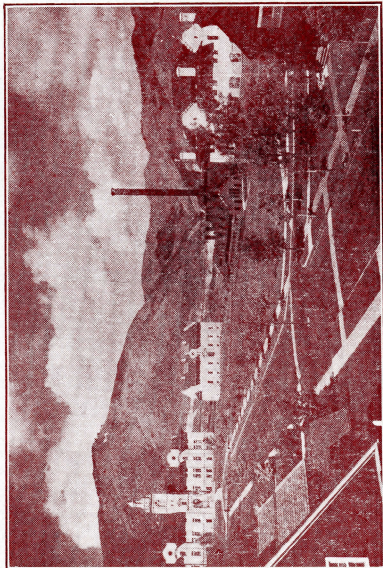
The **Student Bulletin Board** is the unenclosed board, and is for things of general interest to the students, as newspaper clippings about the school, lost and found, etc.

The **Program Board** is readily recognized, and contains the regular program of each class.

SCHOOL BUILDINGS

The Colorado School of Mines was established by act of the Territorial Legislature approved February 9, 1874.

Hall of Chemistry was erected in 1880, and additions made in 1882 and



The
Campus

1890. This building contains all the chemistry lecture rooms and laboratories.

Hall of Engineering was completed in 1894 and is devoted almost entirely to physics lecture rooms and laboratories.

Assay Laboratory was built in 1900 and is devoted exclusively to assaying practice, being fitted with both coal and gasoline furnaces.

Stratton Hall was completed in 1904 and was made possible through a gift of W. S. Stratton. The mining and metallurgical lecture rooms of the Junior and Senior years are in this building; also the Senior metallurgical laboratories.

The Power House was erected in 1905, and furnishes the heat, light and power of the school. Part of the building is used as a laboratory in which are various types of mining machinery, such as compressors, air drills, etc.

Guggenheim Hall was constructed in 1906, and is the gift of Simon Guggenheim. It contains the Administration offices of the school, the Assembly Hall, Library, and the lecture rooms and laboratories of geology and mineralogy.

The Gymnasium, located north of Guggenheim Hall, was completed in 1908. The first floor has a swimming pool 22x57 feet, rubbing rooms, boxing and wrestling rooms and athletic store-room. The second floor is occupied by the Integral Club and the offices of the Athletic Association. All the furnishings and fixtures are finished in Mission style and the top floor is the gymnasium proper and visitors' gallery.

The Library is located in Guggenheim Hall and is almost entirely of a technical nature. It contains 12,000 books and pamphlets.

LIBRARY HOURS

- 8 to 12 a. m. (except holidays.)
1 to 5 p. m. (except Saturdays and holidays.)
7 to 9:30 p. m. every week day (except holidays.)

The Mineral Collection is one of the best of its kind in any technical college of the United States. It is located at the north end of the basement floor of Guggenheim Hall. The Mineral Cabinet and working collection together embrace more than 42,000 specimens.

The Museum of Applied Chemistry is on the first floor of Hall of Chemistry. It is composed of commercial products in the manufacture of which chemistry plays an important part. The collection is used in connection with the course in Technical Chemistry of the Sophomore year.

The Laboratories are located as follows:

- Mineralogy Laboratory—Guggenheim Hall.
Geology Laboratory—Guggenheim Hall.
Metallurgical Laboratory—Stratton Hall.
Ore Dressing Laboratory—Stratton Hall.
Assay Laboratory—Assay Building.
Electro-Metallurgy Laboratory—Hall of Engineering.
Hydraulic Laboratory—Power House.
Electrical Laboratory—Power House.
Physics Laboratory—Hall of Engineering.
Mining Laboratory—Power House.
Steam Laboratory—Power House.
Cement Laboratory—Hall of Chemistry.
Testing Laboratory—Hall of Chemistry.

The Athletic Field is located at 11th and Rose Streets. The field is used for Football, Baseball and Track. It contains a four-lap running track, bleachers and grandstand. The track has been graded and leveled and a locker room with shower baths built under the grandstand.

Young Men's Christian Association

The Young Men's Christian Association of the Colorado School of Mines is an integral part of the great World Student Christian Federation, which includes in its membership the Christian student of every nation in the world. This movement is the greatest student organization the world has ever seen, and it is enlisting the active support of the thinking men of every race. Therefore, to the student who joins the Association at this school comes the inspiring knowledge that he is a member of this world-wide and intensely progressive student movement.

But the Christian Association at the School of Mines means a great deal more to the men of our great technical school. It stands for that type of the highest, cleanest and most manly student life which best expresses true school spirit. It seeks to bring forth in every man those traits that are best, and of which his school may be the proudest. It extends to every man the opportunity to render unselfish service to his fellows, without which service the student's life is in imminent danger of becoming both narrow and dwarfed.

Although the Christian Association occupies an assured position in the life of the school, it needs the generous support, as well as participation in its activities, of every man

who has at heart the welfare of the School of Mines. Without such support the Association cannot accomplish the purpose for which it was organized; and unless the student gives such support he will in all probability lose sight of the high ideals he has set before him for himself and his part in the life of his school.

Membership. Every man in this school is invited to join the Association. The organization is interdenominational; all members of evangelical churches are admitted to active membership, and all those who are not church members, but who wish to make their lives count for the most while in school, are admitted to associate membership. The annual dues amount to \$1.00 and the holder of the student membership card is made welcome in all Christian Associations. R. R. Harper, '14, is chairman of the Membership Committee.

Religious Meetings. One regular religious meeting is held every week in the Association room in Guggenheim Hall. These meetings are led by students, except when some of the traveling secretaries of the Association, some member of the Faculty, or some prominent speaker from Denver is present. A most cordial invitation is extended to all students to attend these meetings.

W. C. Huntington, '12, is the committee chairman.

Bible Study. A knowledge of the Bible is essential to true education, and the Association Bible classes offer the only opportunity to get this knowledge while attending this school. Last year there were about 50,000 men in the colleges of North America who were engaged in studying this great Book. Men meet in groups of ten or twelve in the room of one of the men, and, with a student leader to help di-

rect the thought, study one of the following courses:

- (1.) The Life and Works of Jesus.
- (2.) The Life of Paul.
- (3.) The Social and Political Teachings of Jesus.

V. C. Robbins, '12, is chairman of the Bible Study Committee.

Mission Study. After many years the study of Missions has at last taken hold of the men of the colleges, 25,000 of whom were enrolled in classes of the Christian Associations of North America. Is this not sufficient evidence of the interest in this great world-wide movement for the enlightenment of the non-Christian peoples? For that reason, if for no other, each man should take advantage of the Mission Study classes that are offered by the Association. The Association contributes to the work of William Merrill Vories, the man who has done such splendid work in the Omi Mission, which he founded in Hachiman, Japan.

This work is in charge of the Missionary committee, and Y. F. Chen, '14, is chairman.

Social. New students should make special note of the first big event of the school year—the annual reception tendered by the Association—where the new men can meet the members of the Faculty and their wives, and the upper classmen of the school. This reception is held on the first Friday evening after the opening of school, in the auditorium of Guggenheim Hall. During the school year the Social Committee will arrange for informal social gatherings to be held from time to time. This committee is at the service of the men of the school and the members will be glad to render any service at any time.

C. A. Rockwood, '12, is chairman of the committee.

Finance and Music. The finances of the Association are in charge of

the Finance Committee, Chairman C. D. Grier, '12, treasurer of the Association. The music is in charge of a committee of which W. G. Ramlow, '12, is chairman.

Hand Book. This hand-book is published by the Hand-book Committee, E. M. Field, '12, editor, and E. F. Baker, '14, business manager. It is intended to help the new men, particularly, by giving them the most important information about the School of Mines in very condensed form.

Conferences. The Student Conference to which our men go each year is held in this state, on the grounds recently purchased by the Western Conference of the Young Men's Christian Associations. Three hundred and seventy-five acres of land, one and one-half miles above sea level, in the heart of the Rockies, is the meeting place of the students of Colorado and all the surrounding states. Here meet each year the leading college men of these states to study the problems of the Christian Association, and to listen to the addresses of the religious leaders of the United States. Morning and evening is devoted to the various meetings, but the afternoons are given up to recreation of all kinds. Baseball and tennis tournaments are held each year; a track meet is scheduled for one afternoon, and one evening is called "Stunt Night," when the different delegations assemble by states and select a few men to produce some humorous sketch for the amusement of the other delegations. Taken altogether the ten days spent at this beauty spot in Estes Park, at the foot of Long's Peak, is a source of pleasure and profit that will well repay every man who attends.

Additional information will be gladly given by the chairman of the Conference Committee, Y. K. Kwong, '14.

Advisory Board. The Advisory Board is composed of five men—two professors, one minister of the city, one business man of the city, and one member of the Alumni. This group of men supervise the work that is planned and carried out by the Association officers. These men are the present members: Prof. H. B. Patton, Rev. G. E. Keithley, Prof. C. R. Burger, Mr. G. W. Parfet, Mr. C. L. Colburn, '07.

The officers for the year 1911-12 are:

President, A. W. Harris, '12.

Vice-President, W. J. Eaton, '13.

Secretary, J. W. Dudgeon, '13.

Treasurer, C. D. Grier, '12.

The General Secretary. Mr. J. B. Watson will serve as general secretary this year as he did the past two years, devoting his entire time to the work of planning and directing the activities of the Association. He is anxious to become acquainted with you and to be of service to you while you are a student in the School of Mines. His office adjoins that of the registrar in Guggenheim Hall, where he will be glad to see you at any time.

ROOM AND BOARD.

There being no dormitory at the school all the students room at private houses, a list of which may be obtained at Y. M. C. A. Headquarters. Members of the Association will meet you at the train and show you around to these different places and assist you in every way to make satisfactory and comfortable arrangements.

It is usually convenient to choose your room near your boarding place.

The majority of students board at clubs run by student managers, who will besiege all newcomers at the depot to become members of their respective eating clubs. You will probably find it more satisfactory to make

no definite arrangements until you have visited all, as one may be more congenial than another in that certain classes of fellows usually club together, and it is to your advantage to get both good food and good fellowship. A few students can usually secure both board and room in private houses, and a list of such places will be at your disposal at Headquarters.

The expenses for board and room have gradually increased in the past few years, so that the average room rent is now from \$5 to \$8 per month where you "double up," and from \$8 to \$12 singly. Board at the clubs runs from \$17 to \$21 per month, but most of the clubs allow a discount on meals missed.

EMPLOYMENT.

Owing to the requirements of the course of study, little time is left for outside work, although some students earn their way by waiting table at the eating clubs, by work for the School—in the shop, chemical laboratories or drawing rooms, or by tending furnaces, etc. It is very seldom that a first year man can count on any of these sources of income, as they are promised to men already in the School for the following year. However, the Association will be able to put you next to whatever opportunities are open.

CHURCH DIRECTORY.

Baptist, 12th and Jackson. Rev. Ira D. Hall, Pastor.

Catholic, 14th and East.

Episcopal, 13th and Arapahoe. Rev. C. M. Pullen, Rector.

Methodist, 14th and Washington Avenue. Rev. R. R. Adams, Pastor.

Presbyterian, 15th and Washington Avenue. Rev. G. E. Keithley, Pastor.

The
Integral
Club



Social Events

Y. M. C. A. Socials. The Association gives a Freshmen reception the first Friday after school opens. This is an unequaled opportunity for the new men to get acquainted with each other. Speeches by the president and members of the Faculty give a line on the life that is before you.

At intervals during the year various "stag" and "double" affairs are held, ample notices of which are posted on the bulletin boards.

Freshman Ball. Following an established custom, the Freshman Class gives a dance to the upper class men about the middle of the first semester. The attendance is limited exclusively to faculty, alumni and students of the college.

Smokeless Smoker. During the second school semester the Athletic Association holds the Annual Smokeless Smoker. This is the big social event of the year. The program consists of athletic feats, such as boxing, wrestling, tumbling, etc., and music by the mandolin, glee and banjo clubs. The latter part of the evening is given over to dancing.

Junior Prom. This ball is given to the Senior Class by the Juniors, during the commencement week, and since each Junior Class attempts to outdo its predecessors the affair is always a brilliant success. Bids are confined to the two upper classes, faculty and alumni.

Organizations

Mandolin and Glee Club.

Each year the Glee and Mandolin Club furnishes music for the Smoke-

less Smoker, and towards the end of the first semester regular practice is begun.

Fraternities.

Four national fraternities and one Engineering Fraternity have chapters in the School. They are:

Beta Theta Pi.

Kappa Sigma.

Sigma Alpha Epsilon.

Sigma Nu.

Tau Beta Pi (Honorary).

Sophomore-Freshman Barbecue.

The old unorganized "rough house" was discontinued in 1905, and the following rules substituted:

1. During the first day of school a challenge shall be issued by the Sophomores inviting the Freshmen to a Barbecue on the campus near Stratton Hall. This will be held at eight o'clock on the evening of the second day of school.

2. During the morning of the second day of school the president of the Junior Class shall call the Freshmen together and explain the nature of the Barbecue, telling them of what it shall consist. He shall at this time tell them that if there be any of their number who feels that he is not physically able to engage in the Barbecue, he shall go immediately to the physical director for examination. If the physical director shall pronounce him unfit he shall decline the invitation. The Junior President shall explain to them that there will be no further engagements of the sort during the remainder of the school year.

3. The Barbecue shall consist of an attempt by the members of each class to tie up hands and feet of members of the other. Cutting of ropes is absolutely prohibited, and this rule will be enforced by the upper class men. All participants shall come

either in stocking feet or wearing soft-soled gymnasium shoes.

4. Before the Barbecue the Sophomores shall line up on one side of the lawn and the Freshmen on the opposite side. At the appointed time the President of the Senior Class shall step to the middle of the lawn and ring a cow bell as a starting signal. The class succeeding in tying up the greatest number of the members present of the other class in the allotted time shall be declared winner.

Athletics

Each student pays an athletic fee when he registers and in this way all students become members of the Athletic Association.

The affairs of the Athletic Association are looked after and directed by a Board of Directors which consists of three faculty members, elected by the faculty, an alumnus member, elected by the alumni association, and three student members, one from each of the three upper classes, who are elected by their respective classes.

Football.

C. E. Calvert, 1912, Captain.

A. W. Harris, 1912, Manager.

Football has always been the branch of athletics in which the greatest interest has been taken in this school. The greatest honor a man can get in athletics is to be a member of the Varsity, especially during a winning season. Last year our team played several very close games, but luck seemed to break against us in each instance. Especially was this true in the Utah game at Salt Lake City, where Utah scored during the last minute of the game and we were unable to score.

Baseball.

L. C. Thomas, 1912, Manager.

We had a good baseball team last season, but were not able to win the championship, this honor going to Colorado College. So few games were played that the team did not get a fair chance to show what it could do, the weather being partly responsible for the incompleting schedule. Prospects are very bright for next year, however, and we will expect to add another pennant to our large collection.

Basketball.

R. E. Litchfield, 1913, Captain.

F. A. Downes, 1913, Manager.

For the seventh successive season we won the championship of the colleges in basketball last year. This is a record seldom equalled in any part of the country. The same men will return to school next year, so we expect another successful season.

Track

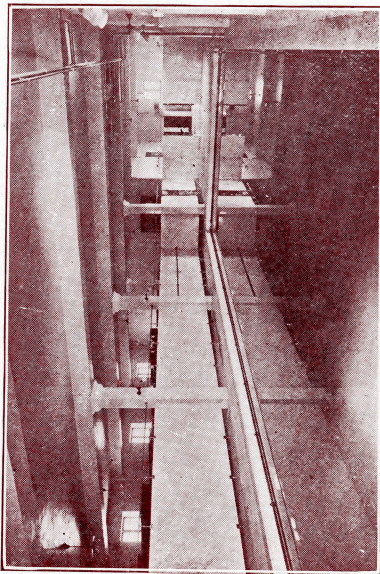
Neil McNeil, 1913, Captain.

F. A. Downes, 1913, Manager.

Until recently we have not given much attention to this branch of sport, but track athletics are growing in favor each year and more men are giving their time to the training which is so necessary. As in basketball, most of the members of the team will return next year, and with additional experience and better coaching we should turn out a creditable team.

Tennis.

The School has four tennis courts for the use of students and when the weather is good these courts are usually all in use after school and on Saturdays. There is usually a class tennis tournament held in the spring and the winners then represent the School in the state tournament. In



The
Swimming
Pool

past years we have won a number of Championships.

Track Records.

	School Record
100-yard dash	0:10 1-5
220-yard dash	0:22 4-5
440-yard run	0:52 1-5
880-yard run	2:06 3-5
1-mile run	4:52 2-5
2-mile run	11:20 2-5
120-yard hurdle	0:16 2-5
220-yard hurdle	0:27 2-5
High Jump5 ft. 9 in.
Broad Jump22 ft. ½ in.
Pole Vault10 ft. 11 in.

Class Athletics.

Class supremacy is decided each year in the various branches of athletics in a series of games between classes. The winner of the Senior-Junior game plays the winner of the Sophomore-Freshman game for the championship. Varsity men are debarred from playing in class football games, but not in other games.

School Insignia.

The wearing of the Varsity "M" is restricted to members of the Varsity football, baseball, track, basketball and tennis teams. In track any one winning five or more points in a college dual or the intercollegiate meet is entitled to an "M," and if the tennis team wins the championship its members are awarded their letter.

COLLEGE YELLS.

COLORS—Silver and Blue.

Skyrocket Yell.

S-s-s-s-s-h BOOM

Y-e-e-e-e-e-e-h!

M-I-N-E-S

How de we spell Mines?

M-I-N-E-S, MINES!

U-Rah-Rah! C. S. M!
U-Rah-Rah! C. S. M!
U-Rah-Rah! C. S. M!

MI-MI-MI-MI
N-N-N-N
ES-ES-ES-ES

Mines! Yes, MINES! Yes, MINES!

C-SM, U-Rah, U-Rah!
C-SM, U-Rah, U-Rah!
Hoo-Rah! Hoo-Rah!
C O L O R A D O
SCHOOL OF MINES
Rah! Rah! Rah!

Rah! Rah! Rah Rah Rah!
Rah! Rah! Rah Rah Rah!
Rah! Rah! Rah Rah Rah!
MINES! !

Marching Time.

M-I-N-E-S (Repeat)

COLLEGE SONGS

1

Tune—"Heidelberg."

Up in the hills of old Golden town
Stands the school we love so dearly,
Keeping her vigil, by day and night,
O'er those who serve her well.
So let us all fight for the Blue and
White,

And the fellows who leave us yearly;
Wherever they go, in sunshine or
snow,

Her praises they always will tell.
Wherever they go, in sunshine or
snow,

Her praises they always will tell.

CHORUS

Here's to the school we all uphold,
Here's to her colors bright,
Here's to her boys, so brave, so bold,
The Mines is their guiding light.
The miner's life is the life for me,

In the midst of the mountain pines;
The engineer is the best, you see,
When he comes from the School of
Mines.

O School of Mines, dear School of
Mines,

Thy memory e'er will bring
The stirring lays of student days,
That round us fondly cling.
We'll sing of Golden's engineer,
Whose spirit knows no fear,
Who cherishes his colors true,
The noble White and Blue.
Who cherishes his colors true,
The noble White and Blue.

2

I wish I had a barrel of rum and
sugar 300 pounds,
The College bell to mix it in, the
clapper to stir it round;
Like every honest fellow, I take my
whiskey clear;
I'm a rambling wreck from Golden
Tech, a Mining Engineer.

CHORUS

A Mining, Mining, Mining, Mining,
Mining Engineer,
A Mining, Mining, Mining, Mining,
Mining Engineer;
Like every honest fellow, I take my
whiskey clear,
I'm a rambling wreck from Golden
Tech, a Mining Engineer.

We are the jolly Golden boys and
like most any hair,
Long or short or straight or curled
is good enough to wear;
We like the gray of grandpapa, the ne-
gro's stubby wool,
But Boulder's hair will never do, so
Boulder's hair we'll pull.

CHORUS

Boulder's, Boulder's, Boulder's, Boul-
der's, Boulder's hair we'll pull,
etc.
(Insert Tiger's, Aggie's, Denver's,
etc., in place of Boulder.)

(Same Tune)

The Tigers (Old Boulder, etc.) have
blue stocking girls, we have blue
stocking men;
We've done the Tigers up before, we'll
do them up again,
And though the Tigers' football
(baseball) team may try what it
can do.
They never on their tintype beat the
Silver and the Blue.

3

Tune—"Our Directors' March."

Hard luck in football,
The Tigers feel blue;
Now all together
Smash and get through.
Rah! Rah! Rah!
Against the line of Golden
Shattered they'll be.
A cheer for the Miners
And down with C. C.
Mines! Mines! Rah! Rah! Rah!

M I N E S!

4

Oh, we've come to the Tigers' town,
And we'll surely turn it upside down;
For we'll all stick together
Thro' rain or shiny weather,
For we're going to turn the Tigers
down,
Well, well, well!
Hail! hail! the gang's all here,
So what the what do we care?
What the what do we care?
Hail! hail! the gang's all here,
So what the what do we care now.

5

Tune—"Ach Du Lieber Augustine."
Hang it on the Boulder gang,
Boulder gang, Boulder gang;
Hang it on the Boulder gang,
Boulder gang, gang!
Yes we can tie a can onto the Boul-
der gang;
Hang it on the Boulder gang,
Boulder gang, gang.

24

Tune—"Mr. Dooley."

O, clear the way, Hooray, Hooray!
we're coming in our might;
Our banner true of royal blue is bathed
in silver light.
The love of dear old Golden round
each loyal heart entwines,
So it's Glory! Glory!! Glory!!! Colo-
rado School of Mines.

CHORUS

The Mines forever,
The Mines forever,
Rings out the song of every Miner
true.

Defeated never,
Victorious ever,
We're cheering for the Silver and
the Blue.

O, when Old Tigers' team we meet
upon the football field,
Three cheers for "Miner spirit," for
the Miners never yield;
And when the game is over and the
score shall counted be,
"I came, I saw, I conquered," is our
shout of victory.

CHORUS

And when to Golden we return at
setting of the sun
We'll place among our trophies there
the scalps today we've won;
The brightness of our glorious past,
the future's radiant view
Shall join with us in cheering for
the Silver and the Blue.

CHORUS

7

Tune—"My Irish Molly."

There stands a village to the north
Some twenty miles or more,
Whose mighty sons shoot off their
guns
And make an awful roar;

25

But when the smoke has cleared
away

On next Thanksgiving Day
Our valiant sons will be the ones
Hailed champions of the fray.

CHORUS

Boulder, Oh poor old Boulder,
The pennant is not for you;
We hold it and we'll defend it
While white is white and blue is
blue

Full time you know is ball time,
Wake up! Don't be so slow!
We'll play the game and win the
same,

Begorra, you can't jump our claim
Poor Boulder, down you go.

Oh Boulder dear and did you hear
The thing that we've in mind?
In a corner of the Broadway field
A lonely spot we'll find;

We'll bury deep your football rep.
Where weeping willows wave.

We'll fetch a bunch of tombstones
And we'll plant them on the grave
—of

CHORUS

The Tigers' tail we've twisted
And you bet it was great fun;
The Methodists we walloped

Tune—to none;

We taught some tricks in plowing
To the boys in Collins town,
So it's up to us on Turkey Day
To do the thing up brown—with

CHORUS

Boulder, oh, poor old Boulder,
Come, come, don't be so sore.
You'll be a few months older
Oh poor old Boulder, before you'll
score.

This time again is our time
To show you our stunts galore;
Oh go long, put up a fight,
Or bid football a fond good night
Adieu for ever more.

Tune—John Brown's Body.

D. U.'s colors are a deep, deep blue,
D. U.'s colors are a deep, deep blue,
D. U.'s colors are a deep, deep blue,

As we go scoring on.

Glory, glory to Old Golden,
Glory, glory to Old Golden,
Glory, glory to Old Golden,

G-O-L-D-E-N

Y. M. C. A. ENTERTAINMENT COURSE.

The committee in charge of the Entertainment Course, F. B. Harris, Chairman, has selected the numbers for this season. It is without doubt the best Course we have had in this school, and is going to cost the Christian Association more than any previous one. It will be a five-number Course as the preceding ones have been, and the price for season tickets with reserved seats will be \$2.00, just about the cost of one good show in Denver. The idea of the Christian Association has been to give to the faculty, students, and people of Golden an opportunity to see and hear the same class of Lyceum productions as can be secured in cities like Denver and Colorado Springs.

The numbers and dates are as follows:

November 3, '11—Dick-Bergen Musical Company.

December 8, '11—Reno, Magician.

January 10, '12—Alton Packard, cartoonist.

February 2, '12—Le Brun Grand Opera Company.

April 12, '12—John B. Ratto, Impersonator.

The Dick-Bergen Company has just been organized, but we have heard the great violinist here in Golden as a member of the Central Grand Concert

Company, so we can judge pretty accurately in gauging the class of this company. Maximilian Dick needs no introduction to the people of Golden. His reputation as a musician was established when he played in Germany and was honored by being chosen concert-meister of the Philharmonic Orchestra of Leipzig. The other member of this strong company has long been known as one of the best baritones in the United States. He has been doing interpretative work with the great music critic for the Chicago Tribune, Mr. W. L. Hubbard, during the season just closed, and has had a remarkable success. For next season he will appear on the Salt Lake City great musical course with such artists as Gadski, Pasquali and Bonel, and the Russian Symphony Orchestra. This assures us that he is one of the best. A competent pianist will accompany these two great musicians.

The popularity of the modern magicians never seems to die, and because of the interest in Laurant we have secured Reno for next season. Reno has been in the business for over twenty years and in that time has traveled over the whole world, studying the magic of such countries as India, Syria and Egypt, picking up secrets here and there and utilizing them in his art. That is why he stands head and shoulders above others of the same calling.

We have never had a great cartoonist before, but we are to have the greatest of them when Alton Packard comes to us. That he is without an equal in his line is acknowledged by all who have seen him perform with crayons, heard him play the piano to accompany his singing of humorous and characteristic songs, and enjoyed the running fire of satire and humor. He is beyond comparison and it is impossible to do him justice in writing, but it must be said that he is an artist, lecturer, musician, humorist and

entertainer all in one. No more need be said of him than that he is always in demand for return dates wherever he has visited.

The fourth attraction to be secured is the greatest company we could get this coming season. Without doubt, it is the strongest group of entertainers under the management of the Redpath Lyceum Bureau, and we will be convinced of this when they appear. The Le Brun Grand Opera Quartet is composed of Madame Le Brun, soprano; Laura Baer, contralto; Fritz Huttman, tenor; and Arthur Deane, baritone. Every one of this company has appeared in Grand Opera, and three of them in leading roles. It is utterly out of the question to say all that could be said of this company in this brief space, so an extra press sheet is being prepared and will be sent to all who desire additional information concerning this great troupe of musicians.

The Le Brun Company carries its special scenery for everything. Over five thousand dollars are invested in costumes and scenery, and one gown worn by Madame Le Brun is completely covered with solid silver spangles, imported from Paris, and cost \$500. In the production, especially of *Il Trovatore*, she wears several thousand dollars worth of jewels.

Each member can sing in three languages—Italian, German, and English. They emphasize, however, the giving of operas in this country in English and have done much to influence other operatic companies to do likewise. This company will be worth the price of the entire course of entertainments.

John B. Ratto, the impersonator who so delighted a large audience last year, will be the only attraction given a return date. He was urged to return by many of our leading supporters and we were glad to be able to get him for a return date.

Tramps and Drives

TRAMPS

Castle Rock. The first climb should be to the top of the prominent rock which guards the town on the east. A well defined trail leads to the summit and the trip is easier than one would imagine. From the top a beautiful view of the town, the mountains, and the plains is to be had, and in the evening the lights of Denver and Golden make a picture long to be remembered. Good walkers make the climb of about 600 feet in fifteen minutes or less.

Crystal Spring. This is at the base of the cliff on the south side of South Table Mountain, nearly opposite the Johnson ranch. It is a tunnel-like opening which is always filled with the finest of clear, cold water, which is continually dropping from the top. The spring is somewhat hidden by bushes, but is not very hard to find.

Clear Creek Canon. Within walking distance of Golden is some of the finest scenery in this world-famous canon. A spring beside the railroad track about three miles from town is nearly always flowing.

Chimney, Gulch, Mounts Zion and Lookout. The road up Chimney Gulch, directly west of town, forms an easy route to the summits of Mt. Lookout (altitude 7,200 feet) to the south, or Mt. Zion (altitude 6,700 feet) to the north, and the view from either of these is magnificent. It is only about two miles from the school to the top of Mt. Lookout. About two-thirds of the way up the road crosses a bed of pegmatite containing titiferous magnetite. A spring near the head of the Gulch flows most of the year.

Brick Works. This is about a mile north of town. Curious nodules of

marcasite and fossil rushes are found in the old coal mine dump to the left of the road, and good, transparent gypsum is quite plentiful in some of the pits near the brick works.

Golden Gate Canon. This is directly west of the Brick Works. The portion near the mouth is very beautiful, but it soon becomes flat and uninteresting. A large bed of garnet bearing schist outcrops three times within a mile from the mouth. The mountain south of this canon is not very hard to climb, and if one has time it makes an interesting trip to come home over the top and down Indian Gulch.

Zeolites. These minerals, for which the locality is famous, occur in cavities in the basalt which caps both Table Mountains. The best seem to occur near the heads of the biggest draws on the southern and eastern faces of North Table Mountain.

Fossils. Fossil leaves occur plentifully in the soft beds of the Table Mountains. Perhaps they are the most plentiful on top of a ridge running out into the plains from the southeastern end of South Table Mountain. Leaf impressions are also found in the sandstone of the small hogback just west of the School, and palm leaves are often found here and in the clay pits. Petrified wood is quite plentiful on the Table Mountains and Green Mountain, south of town. Among other things found in the vicinity are shells of various molluscs, baculites, shark's teeth, skeletons of gigantic reptiles, mammoth teeth and bones, etc.

DRIVES

Garden of the Angels at Morrison. The carboniferous red rocks eight miles south of Golden are considered by many to be more beautiful, wonderful and interesting than the famed Garden of the Gods at Man-

itou. A day can be very entertainingly spent climbing through their caves and taking a trip to the top of Mount Morrison (altitude 7,850 feet) on the cog road.

Bear Creek Canon and Evergreen. This canon is directly west of Morrison and is very beautiful. Bear Creek is a stream of considerable size, well stocked with trout, while Evergreen is the prettiest pine-surrounded hamlet imaginable. It makes a most delightful day's trip to come home over the mountains and down Chimney Gulch. It is possible to come back by way of Mt. Vernon Canon, the first one south of Golden, but the Chimney Canon route is much more interesting.

One-half mile south of the northern end of the high hogback three miles south of Golden is a low saddle, and in an old clay pit at this point is a wonderful exposure of ripple-marked sandstone. This point is only a few hundred feet east of the Morrison road, and should be visited while making either of the above trips.

Ralston Creek. This stream breaks from the mountains about four miles north of town. It forms a picturesque little gorge where it breaks through the red beds, and behind this is a beautiful valley, which makes a delightful place for a picnic. Still further up the stream are some pretty falls.

Coal Creek This, the most beautiful of the smaller canons near town, is about twelve miles by road north of Golden. It is reached by means of a well traveled turn-off from the Boulder road, and aside from its beauty, is interesting because cut through a very ancient group of rocks—the Algonkian—which is nowhere else exposed in this part of the country.

CLASS SCHEDULE—FIRST SEMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9						
9-10						
10-11						
11-12						
1-2						
2-3						
3-4						
4-5						

Set apart some time each day for Bible Study.

CLASS SCHEDULE—SECOND SEMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	-----	-----	-----	-----	-----	-----
9-10	-----	-----	-----	-----	-----	-----
10-11	-----	-----	-----	-----	-----	-----
11-12	-----	-----	-----	-----	-----	-----
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3-4	-----	-----	-----	-----	-----	-----
4-5	-----	-----	-----	-----	-----	-----

Join one of the Association Bible Classes.

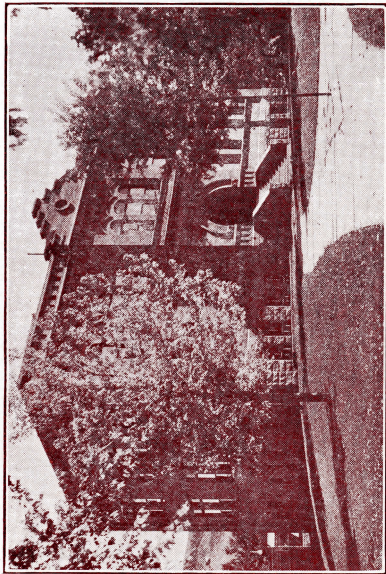
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ADDRESSES

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The
Hall of
Physics



"True life is spiritual life—where do
you stand?"

MEMORANDUM

"Learn the College yells."

MEMORANDUM

"Pay your class assessments."

MEMORANDUM

"Prevent disaster by starting right
and then following the start."

MEMORANDUM

The Y. M. C. A. stands for man-
hood.

MEMORANDUM

Mines teams stand for clean athletics, the rooters for clean rooting.

MEMORANDUM

"Don't fail to take in the Y. M. C. A. Entertainment Course."

MEMORANDUM

"You can be a miner and still be a gentleman!"

MEMORANDUM

"Precedence is the heritage of upper classmen."

MEMORANDUM

Get right with God.

MEMORANDUM

Pay your class assessments.

MEMORANDUM

"Be a man—remembering that a
man is not a brute."

MEMORANDUM

Get right with God.

MEMORANDUM

Character is what a man is in the
dark.

MEMORANDUM

"Fear not what others think or say
of you."

MEMORANDUM

"Make friends with the Librarian."

MEMORANDUM

You can be a miner and still be a gentleman.

MEMORANDUM

Boost for the Mines.

MEMORANDUM

Expect fair play—and give it.

MEMORANDUM

"Write home often—at the least once
a week."

MEMORANDUM

Do your work every day as you go
along.

MEMORANDUM

Rest one day in seven; it is Nature's law.

MEMORANDUM

Save your "cuts" until you need them.

MEMORANDUM

TO EVERYONE

IN PRESENTING to the student body the latest edition of the Hand Book, we wish to remind you once more of your obligation to our advertisers. Their patronage has made this book possible, and we expect and urge you who receive the book to favor those who have favored us. The advertisers are all thoroughly reliable, and are worthy of your patronage.

THE HAND BOOK COMMITTEE

E. M. FIELD, Editor

H. P. GARDEN,
Business Manager



Don't "grind" on Sunday; it's a poor habit and hard to break.

MEMORANDUM

NOTICE

TO EVERYONE

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THE HAND BOOK COMMITTEE

E. M. FIELD, Editor.

E. F. BAKER,
Business Manager.



Railroad Time Tables

Colorado & Southern.

Eastbound Arrive		Westbound Depart
8:50 am.....	Daily.....	8:50 am
4:56 pm.....	Daily.....	4:02 pm

Denver & Inter-Mountain.

Cars on the Denver & Inter-Mountain electric line leave the Denver station on Arapahoe street, between 14th and 15th, on the even hour from 6 a. m. to 6 p. m., and 7:30 and 9:30, the last car leaving at 11:30 p. m. Cars leave Washington avenue and 13th Street, Golden, on the even hour from 6 a. m. to 7 p. m., and at 9:30 and 10:30 p. m.

Denver & Northwestern.

Cars on the Denver & Northwestern electric line leave the Loop at 15th and Lawrence streets, Denver, at half past every hour, from 5:30 a. m. to 11:30 p. m., except 8:30 and 10:30 p. m. Cars leave 13th street and Washington avenue, Golden, at 25 minutes to the hour, from 6:35 a. m. to 11:35 p. m., except 9:30 and 11:30 p. m., and the last car for the night at 12:15 a. m.

MAIL SCHEDULE

of Golden Postoffice.

Windows of office are opened from 8 a. m. to 6 p. m., except on Sundays and Holidays, when they are opened for one hour only, 9:30 to 10:30 a. m.

Mails Arrive.

From the East (Denver and all mail that comes through there). 9:00 am, 2:00 pm, and 4:00 pm
From the West (Mountain towns up the track).....9:00 am, 5:00 pm

Mails Depart.

For the East (Denver and all mails passing through there).....8:50 am, 1:00 pm, and 4:50 pm
For the West (Mountain towns up Clear Creek canon). 8:50 am, 4:00 pm

Mails are closed at the office 30 minutes before departure of trains.

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Largest Stock at Lowest Prices

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am in a position to know students' wants
and needs. Will be glad to be of assist-
ance in getting located, entering, etc.

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Cor. Washington Ave and 10th
Phone Golden 841
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Hardware, Cutlery, Guns
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Study other people and forget yourself.

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Good Work, and Lower Prices
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Physician and Surgeon

Cor. 12th and Arapahoe

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GOLDEN

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National Bank
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Phone Golden 1261

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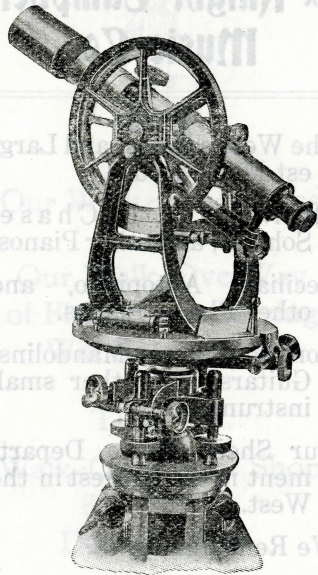
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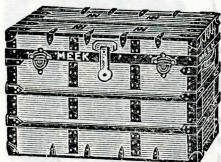
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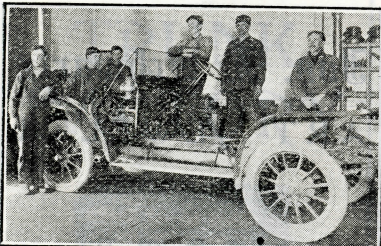
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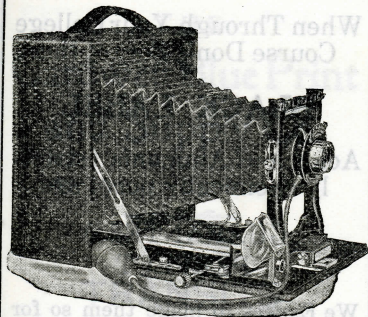
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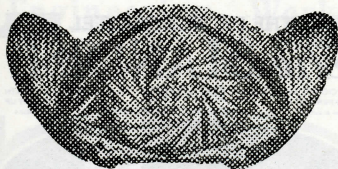
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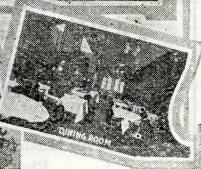
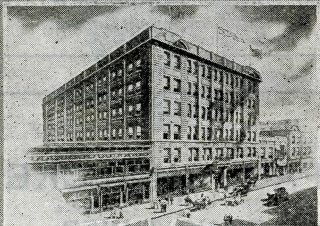
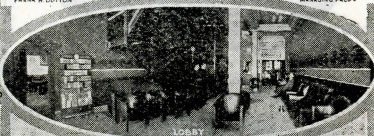
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