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UNIVERSITY OF MICHIGAN

COLORADO

AGRICULTURAL

COLLEGE

Hand Book.

1900.



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“C. A. C.”

1900.

EXPRESS PRINT,
FORT COLLINS, COLO.

COLLEGE SONGS.

Written by H. R. Corbett.

THAT OLD COLLEGE YELL.

(Tune—The Old Oaken Bucket.)

I.

What a whirlwind of sweet recollection
comes o'er me
As the old college days to my mind I
recall.
When the wondering class and professor
before me
Sat amazed while my wisdom astonished
them all.
How I tried to fight shy of the foot of
my classes,
And how my heart thumped at the
sound of the bell,
All the games and the tricks of the lads
and the lasses,
But more than all else, I remember the
YELL!

(Give College yell, everybody yelling.)

Refrain—

That demoniac shriek that we all
gave together,
That hysterical, raving, demoniac
YELL!

II.

When the withering blasts of senility
chill me,
I may lose all the memories of many
bright days,
The delights of the seasons of youth may
not thrill me,
While many a joy that now cheers me
decays;
All the things that I learned and the
friends that I cherished,
In fond recollection no longer may
dwell;
But though from my memory all else
has perished,
I'll always remember that old college
YELL!

Refrain—

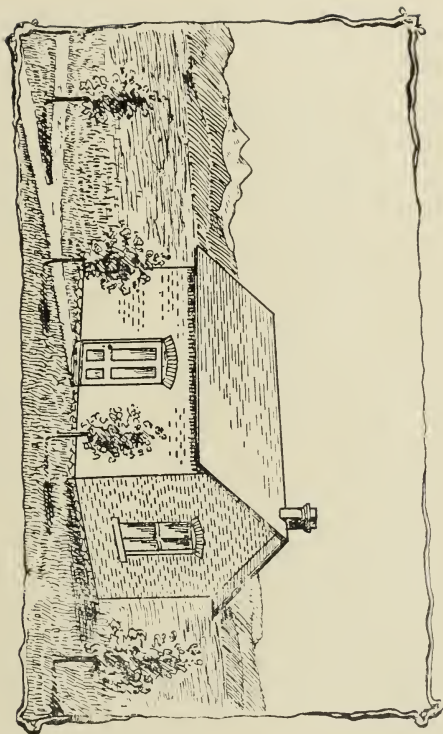
COLLEGE YELL.

Rick a chick a boom!
Rick a chick a boom!
Rick a chick a
Rick a chick a
Boom! Boom! Boom!
Hoop la Rah,
Hoop la Ree,
Hoo Rah! Hoo Rah!
C. A. C.



BIRDS-EYE VIEW OF COLLEGE.

— FIRST COLLEGE BUILDING.



AT THE AGRICULTURAL COLLEGE.

(Tune—In the Shadow of His Wings There is
Rest.)

I.

At the Agricultural College there are
boys, fine boys,
Boys from city, farm and fountain,
Boys from valley, plain and mountain;
At the Agricultural College there are
boys, smart boys,
Don't you worry if they make some noise.

Refrain—

There are girls (and boys)
There is work (and glee)
There are joys (glad joys)
At the dear, old C. A. C.

II.

At the Agricultural College there are
girls, sweet girls,
And every mother's daughter
Takes to work like ducks to water.
At the Agricultural College there are
girls, bright girls,
With their bangs and ribbons, gowns
and curls.

Refrain—

III.

At the Agricultural College they make
dough, good dough,
Sometimes the boys will eat it,
If they do, they don't repeat it.
At the Agricultural College all the girls
make dough,
And we're mighty glad to have it so.

Refrain—

IV.

At the Agricultural College there is a
farm, big farm,
All the Freshmen have to grub,
Don't you kick about it, Bub!
At the Agricultural College there's a
farm, fine farm.
And the work won't do you any harm.

Refrain—

V.

At the Agricultural College there's a
football team,
They get bruised and gashed and gory,
But they cover us with glory.
At the Agricultural College there's a
football team,
O! don't you hear our eagle scream?

Refrain—

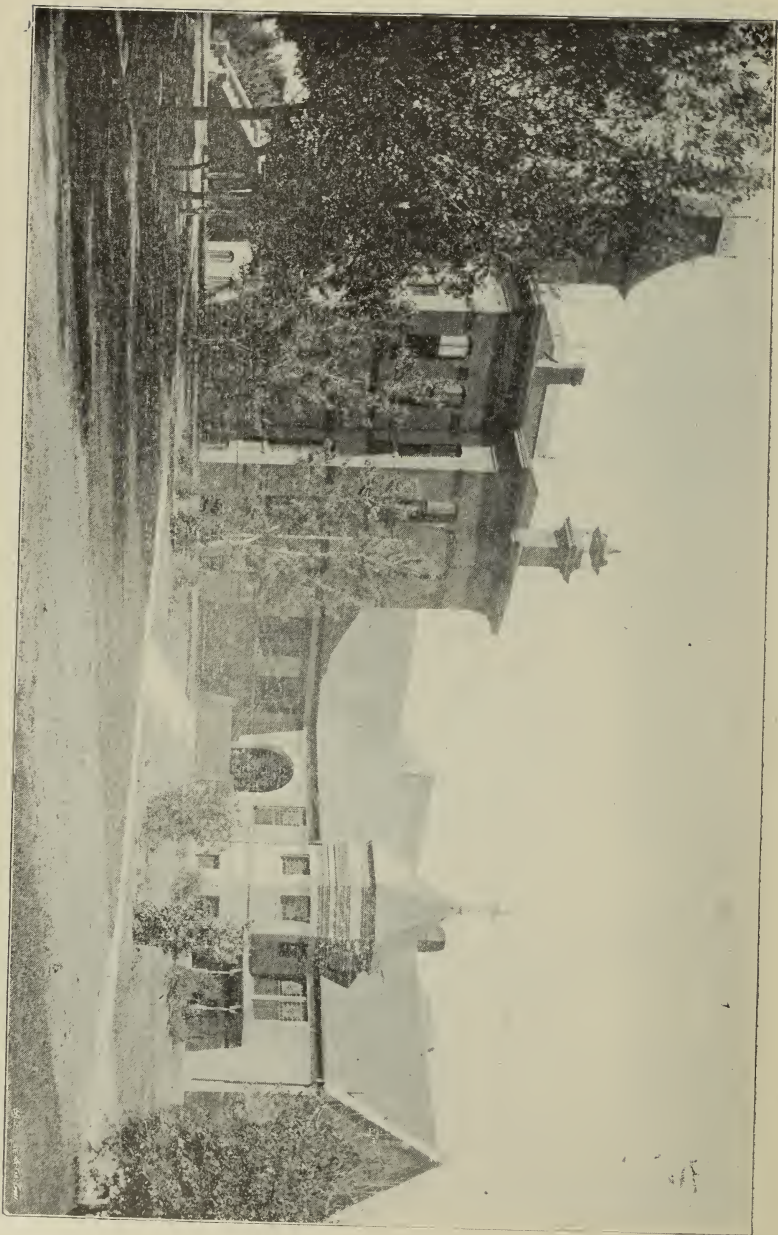
VI

At the Agricultural College there's a
Pres-i-dent,
He's a celebrated preacher
And he makes a dandy teacher.
At the Agricultural College there's a
Pres-i-dent,
We can frolic and he don't care a cent.

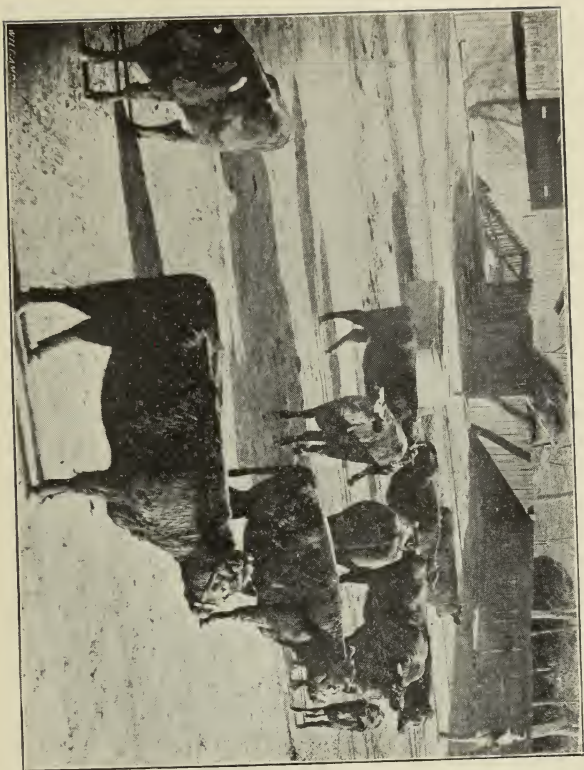
Refrain—

VII.

At the Agricultural College there's a
choir, great choir,
They will get you in their den



MAIN COLLEGE BUILDING.



THE BEST DUREAM HEED IN THE WEST—COLLIDGE FARM.

And warble "Here he is again."
At the Agricultural College there's a
choir, hot choir,
When they sing, they set the town on
fire.

Refrain—

There are girls (and boys)
There is work (and glee)
There are joys (g'ad joys)
At the dear, old C. A. C.

COLLEGE ORGANIZATIONS.

Organization is the expression of the best modern thought and purpose.

The industrial and social world is a labyrinth of organization.

Evolved from nature as humanity is, it could not be otherwise than that human effort should follow along the general lines of natural organization.

To be truly a preparation for participation in the world's work, the College should not only teach the history and philosophy of organization but should show its actual workings by concrete examples.

Nothing better prepares the student for his influential place among men than the discipline and development consequent upon his membership in one or more college organizations.

C. A. C. further exemplifies the varied forms of its educational advantages by

the number and variety of its student organizations.

Superlative among these are the class organizations. No College is worthy the name that hinders the normal growth of class spirit.

Out of this good natured rivalry comes the atmosphere that distinguishes the real college, vigorous, electric, and accomplishing from the relic of other days when the student was detected by his white face and tie, his stoop and halt, his unsophistication and utter ignorance of the great world with which he was soon to mix—a process of great pain both to himself and to his world.

Following are the class organizations for 1900:

FRESHMAN CLASS.

Three, three, three,

Nineteen three,

C. C. C.

C. A. C.

F'reshman, Freshman, F'resh man.

OFFICERS:

Vernard Babbitt.....President

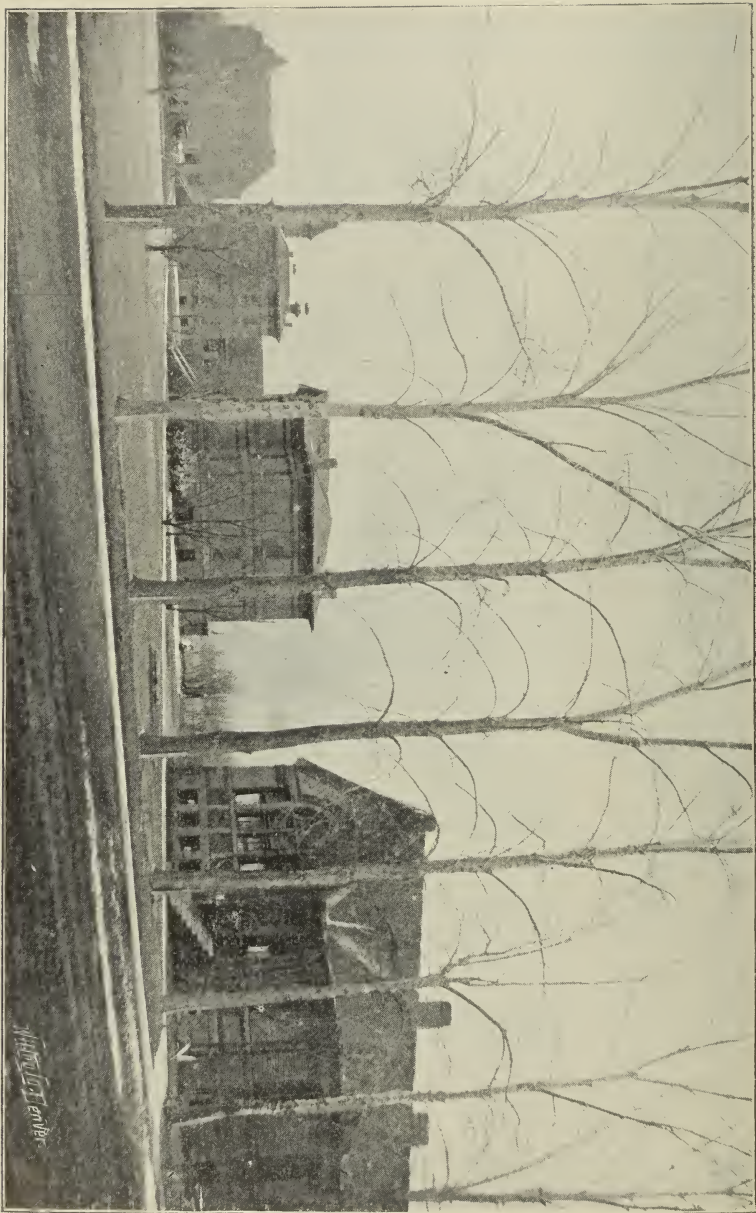
Chas. W. Burnhimer.....Vice-President

Jennie A. Philips.....Secretary

Chas. E. Davis.....Treasurer

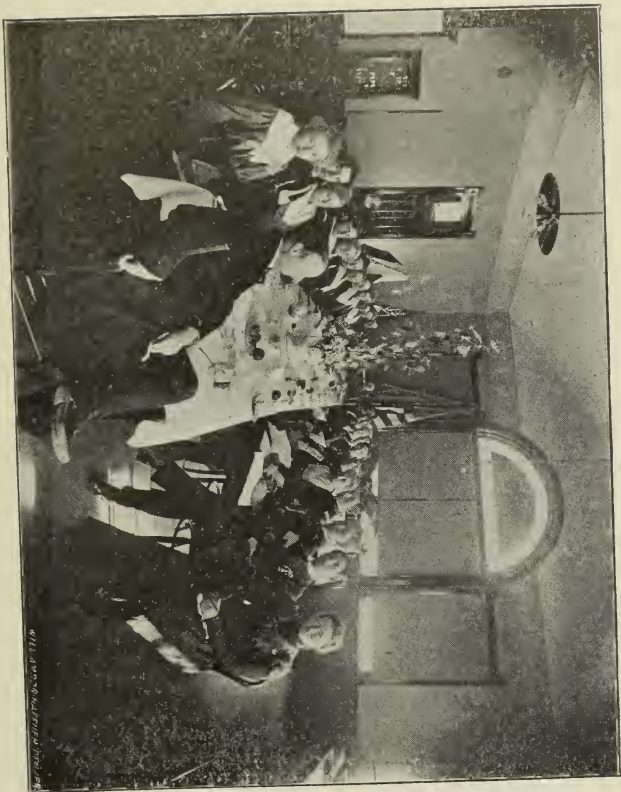
Motto: "Onward to the Goal."

Colors: Purple and Gold.



SOME COLLEGE BUILDINGS—EAST FRONT, COLLEGE AVENUE.

THE UNIVERSITY OF CHICAGO



GEORGE WASHINGTON BREAKFAST.

SOPHOMORE CLASS.

Zip-a-zack, zip-a-zack, zip boom boo,
Rick-a-rack, rick-a-rack. 1902.
Chick-a-rick, chick-a-rick, chick-a-rick-
a-ree,
Sophomore, Sophomore, C. A. C.

OFFICERS:

Ernest N. Graves.....President
James N. Clark.....Vice-President
Olive L. Sheldon.....
.....Secretary and Treasurer
Fred N. Langridge.....Class Leader
Motto: "True Worth Wins."
Colors: Pink and White.

JUNIOR CLASS.

Razoo Ray, we're O. K.
'01, '01,
Hip Hooray!

Heliotrope and Maize,
Yell once more,
'01, '01,
Rip Rap Roar!

Brickty brack, crack, crack,
Brickty bree, cree, cree,
Bullabaloo, Bullabaloo,
Junior, Junior, C. A. C.

OFFICERS:

J. N. Ostrander.....President
Antoine Jacob.....Vice-President
R. W. Haynes.....Secretary
John Wilson.....Treasurer
Motto: "Quality, not Quantity."
Colors: Heliotrope and Maize.

SENIOR CLASS.

Hicko! Whoop la!
Who are we?
The Naughty Naughts
Of C. A. C.
Are we naughty?
N. I. T.

Blue and White,
Do you wonder?
We're all right.
Nineteen Hundred.

OFFICERS:

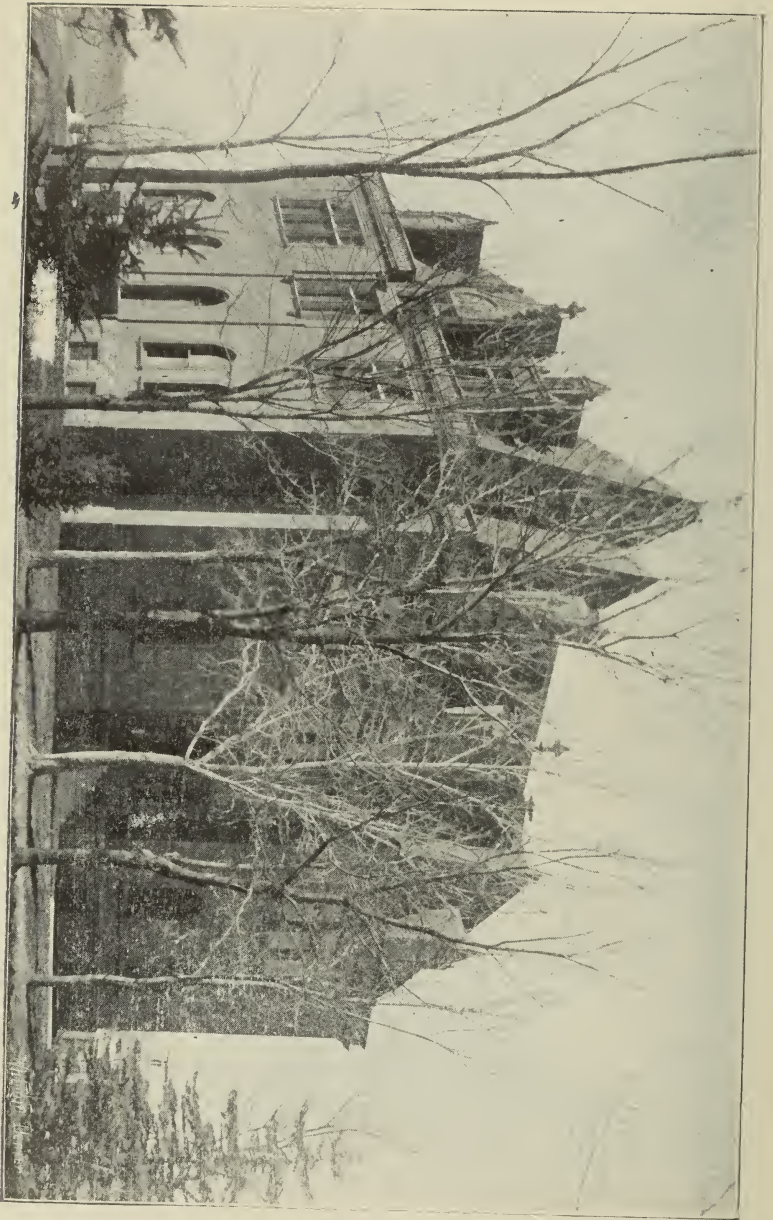
Thomas M. Donelson.....President
Abbie Alford...Secretary and Treasurer
Motto: "Honors wait at Industry's
Gate."
Colors: Blue and White.

LITERARY SOCIETIES.

The literary societies of C. A. C. are virile. They teach self-control, deeper thinking, extempore address, debate, criticism, book reviewing and social intercourse.

It may be somewhat old-fashioned, but the opinion that the literary societies of a college are a fairly accurate thermometer marking its intellectual temperature is not all wrong.

Through them the student learns to concretize and give expression to the philosophy, history and demonstration



CHEMICAL LABORATORY.



COLLEGIAN STAFF.

which have come to him in the classroom.

Moreover, it fits him for his place later among men in the Grange, institute, lyceum, social circle, and on the political platform.

COLUMBIAN LITERARY SOCIETY.

Earl Douglass.....President
Laura Armstrong.....Vice-President
Arthur G. Newell.....Secretary
Delpha Dilts.....Treasurer
Katherine Murray.....Critic
Oliver Pennock.....Sergeant-at-Arms
Meets in Horticultural Hall, 7:30 p. m.,
Saturday of each week.

ATHENÆUM LITERARY SOCIETY.

Florence M. Stewart.....President
Pearl Smith.....Vice-President
Enos J. Strawn.....Secretary
Vernard Babbitt.....Treasurer
Leroy R. Baker.....Critic
Thomas Quine.....Sergeant-at-Arms
Meets in Civil Engineering Building,
7:30 p. m., Saturday of each week.

PHILO-ÆSTHESIAN LITERARY SOCIETY.

Ray E. McClave.....President
Ralph W. Haynes.....Vice President
Lorna Annis.....Secretary
Jas. N. Clark.....Treasurer
Jas. H. Andrews.....Critic
Meets in College chapel, 7:30 p. m.,
Saturday of each week.

Next in importance are the Y. M. C. A. and Y. W. C. A.

They have this high standing from the fact that without being sectarian, they afford the student an opportunity to develop the religious side of his nature in a practical and sensible way.

These associations receive the new students, locate them in comfortable homes and assist them in registration.

Also, by receptions and sociables, they greatly help to make the zest and the *esprit de corps* of college life.

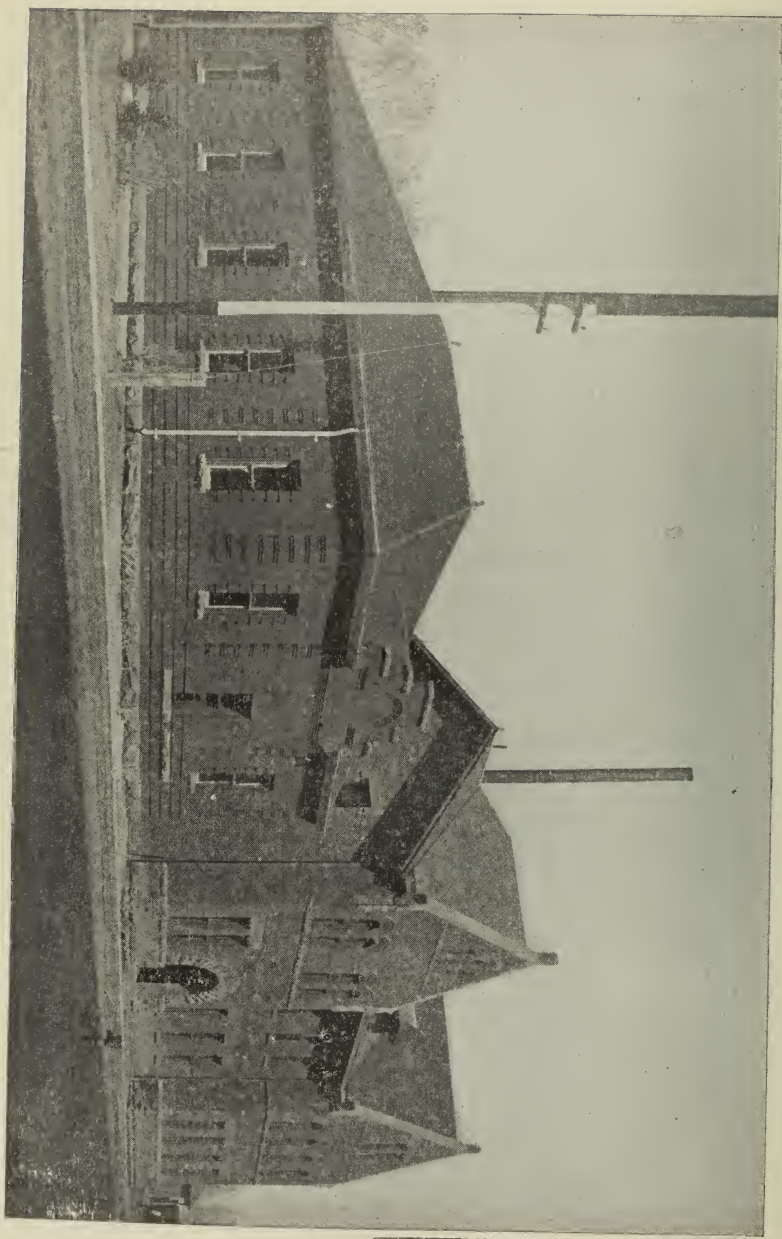
In a quiet way, they seek also, to deepen the student's natural reverence for spiritual truth.

Religion is coming more and more to mean "a way to do things." It is more concerned with "how" than with "what." It is a relation between every man and his environment. From the gold in his pocket up through all sentient life to his fellow man and God.

Y. W. C. A.

OFFICERS:

Joy Ricketts.....President
Eunice Chatfield.....Vice-President
Laura Armstrong.....
.....Secretary and Treasurer
Mabel Ricketts.....
.....Corresponding Secretary



MECHANICAL ENGINEERING LABORATORY.



THE ORCHESTRA.

Y. M. C. A.

OFFICERS:

W. B. Smith.....	President
B. G. D. Bishopp.....	Vice-President
R. W. Haynes.....	Secretary
W. B. McKibben.....	Treasurer

GLEE CLUB.

While the Glee Club is yet in the first year of its founding, it has made marked progress both in solo work and *ensemble*.

The Club has generously enlivened the Chapel exercises and has assisted in a score or more of entertainments.

The organization is permanent.

With its glees and college songs, and even leading the service of song, the Glee Club has already rendered service sufficiently valuable to warrant its existence.

Following is the roll of membership:

John Ryckman, *Director*.

First Tenor.

W. P. Hurley,
Herman Broilier,
Earl Hunter,
C. G. Brown.

Second Tenor.

T. E. Schureman,
Lore Alford,
O. P. Pennock,
Fred Langridge.

First Bass.

Ray Baxter,
Earl Douglass,
Glynn Stannard
Grabam Fuller.

Second Bass.

I. W. Veazey,
R. A. Pierce,
W. B. Smith,
R. W. Tanner.

ORCHESTRA.

The Orchestra is an older organization than the Glee Club. There have been few College programs during the last two years that have not been indebted to the Orchestra for their success.

During the exercises of Commencement Week it is very much in evidence, much to the delight of both students and guests.

While it has required no little expense and time to keep the Orchestra at its high point of excellence, its services have always been given to the College freely.

The personnel is as follows:

W. P. Hurley, 1st Violin, *Leader*,

F. E. Schneider, Violin,

Ralph Parshall Violin,

H. E. Emigh, C. rnet,

R. R. Fisk, Cornet,

Ray Baxter, Slide Trombone,

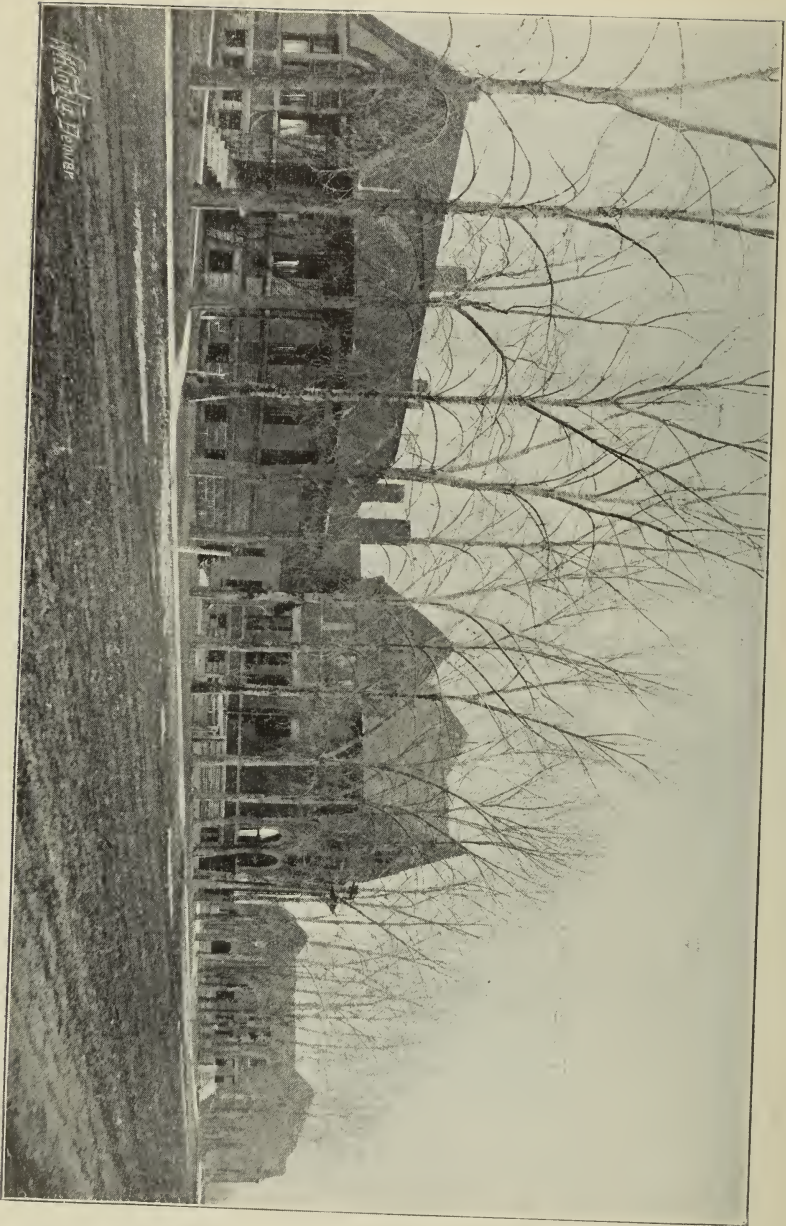
A. B. Bennett, Bass.

Ada Livernash, Pianist,

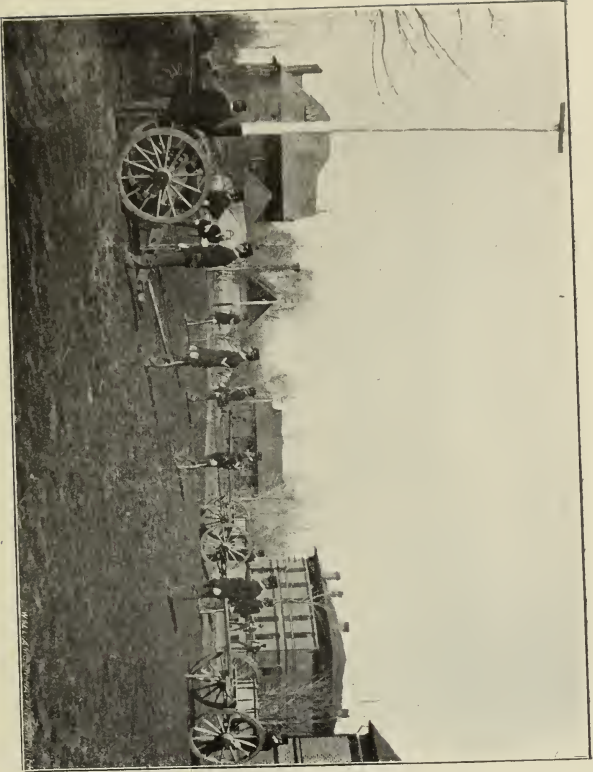
E. K. Baer, Drums and Traps.

NATURAL SCIENCE CLUB.

It is well to lift the mass of knowledge out of the books and set it in the light of every day experience. This is particularly helpful in the matter of scientific knowledge. Thus it becomes something



SOME COLLEGE BUILDINGS—NORTH FRONT, LAUREL STREET.



ARTILLERY DRILL.

more than a tissue of theory. It is vitalized.

Not only is it alive but it has been made useful.

That the scientific process may be better understood and scientific facts more readily applied to every day life, this Club has been organized. In it are both students and teachers.

While interested to a degree in scientific research, it has the greater concern for the practical application of scientific methods.

Following is the list of officers:

James W. Lawrence.....	President
Elmer D. Ball.....	Vice-President
Louis A. Test.....	Secretary
Chas. C. Durkee.....	Treasurer
C. P. Gillette.....	Curator of Museum
L. G. Carpenter, Glynn B. Stannard, } C. P. Gillette, Program Com.

ATHLETIC ASSOCIATION.

It is important that young people who have lead a more or less busy life should not be permitted to enter upon a four years' college course which shall demand of them close application within doors without having provided for them such physical recreation as will counteract the heavy draft upon their nervous energy.

Regular and systematic physical

exercise is necessary to insure a successful college career.

Proper heart action; the natural assimilation of food; and a gradual chest expansion are among the results of well-conducted college athletics.

It is the purpose of the Faculty to restrain athletics within sensible bounds by encouraging rational contests. Sympathetic government is needed here more than in any other phase of college life.

The Association is composed of students and members of the Faculty. The Board of Directors must contain at least two members of the Faculty.

The officers of the Association are as follows:

James H. Andrews.....President
Frank O. Rasmussen.....Manager
Oliver P. Pennock.....Treasurer
C. S. Atherly.....Secretary
Arthur G. Newell.....

.....Captain Foot Ball Team

Lineta Crandall.....

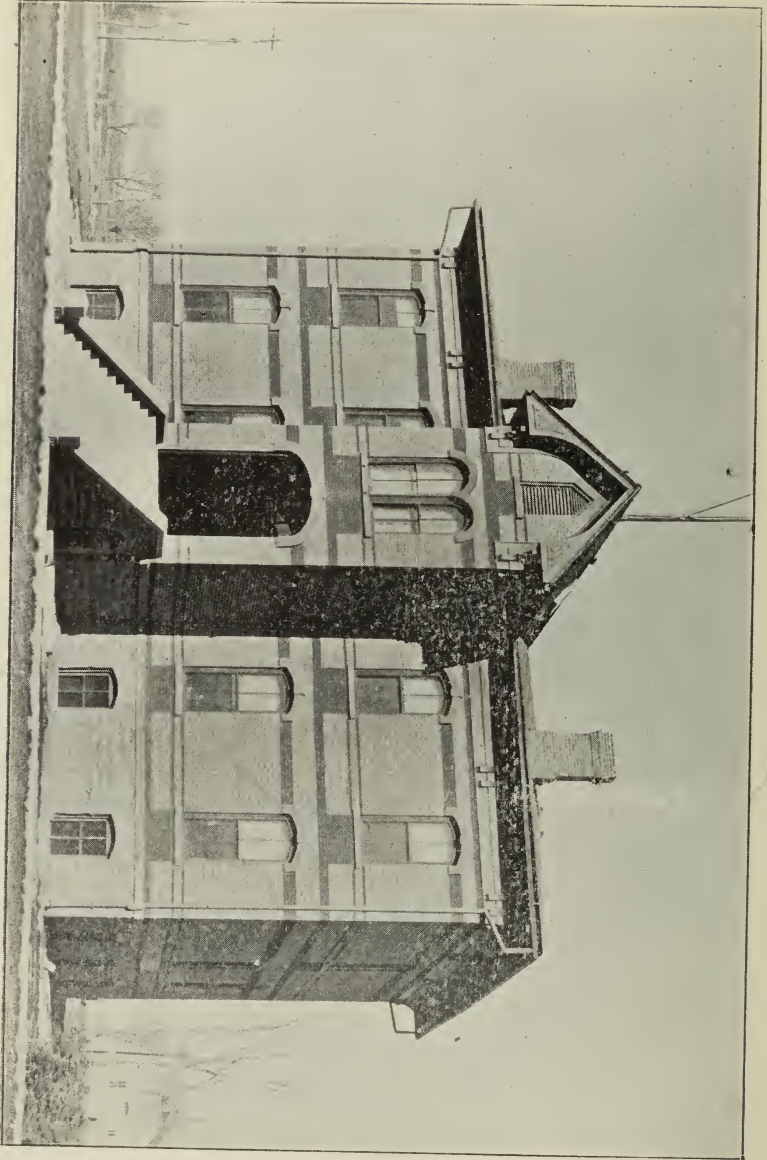
.....Captain Basket Ball Team

Howard Emigh.....

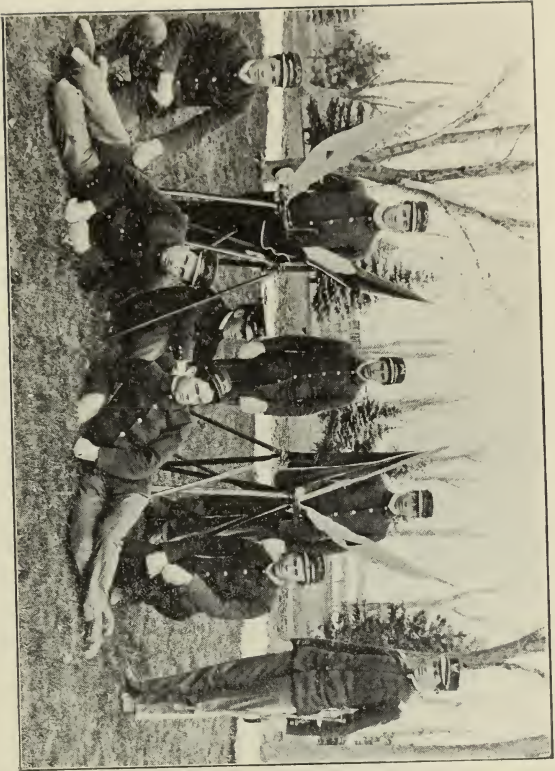
.....Captain Base Ball Team

Board of Directors: Jas. H. Andrews,
H. E. Emigh, F. O. Rasmussen, Prof.
E. B. House, President B. O. Aylesworth,
T. M. Donelson and Ned V. Tanner.

The field meet was held May 4th. The new athletic grounds were in readiness



CIVIL AND IRRIGATION ENGINEERING BUILDING.



SIGNAL CORPS,

for the base ball season of 1900. Other improvements will be made during the summer.

C. A. C. ORATORICAL ASSOCIATION.

Noblest among the arts is oratory. It is coming to a splendid revival in the discussions of the great problems now confronting the nation.

Nothing in college life arouses more interest than a contest between those who possess the gift of oratory. Nowhere may it reach a higher development than among those whose ancestors have been hardy, and whose early life has not been a stranger to the fields and woods and robust health.

It is expected that during the coming year a gentleman of recognized ability will have charge of those desiring to study oratory and will give special training to those who enter the contests.

The Association was organized in 1892. Its object is to encourage the practice and study of oratory in the College. Students registered in any of the four higher classes may be admitted to membership by vote of the Association.

The Association holds two contests each year. One for the members of the Sophomore and Freshman classes; the other for the members of the Senior and Junior classes. The gold medal in the contest of this year was won by Earl

Douglass, '00, and the silver medal by Oliver P. Pennock, '02.

The following are the officers of the Association:

E. W. Smith.....President
Austin Downey.....Vice-President
C. G. Brown.....Secretary
Earl Douglass.....Treasurer
R. W. Haynes.....
....Superintendent of Manuscripts

SAN JUAN CLUB.

In this boarding club accommodations are had for about forty students. A steward is chosen from among their number. Into his hands is committed the purchase of supplies. The club fixes by vote the quality of board, and under the supervision of the Faculty, creates its own regulations.

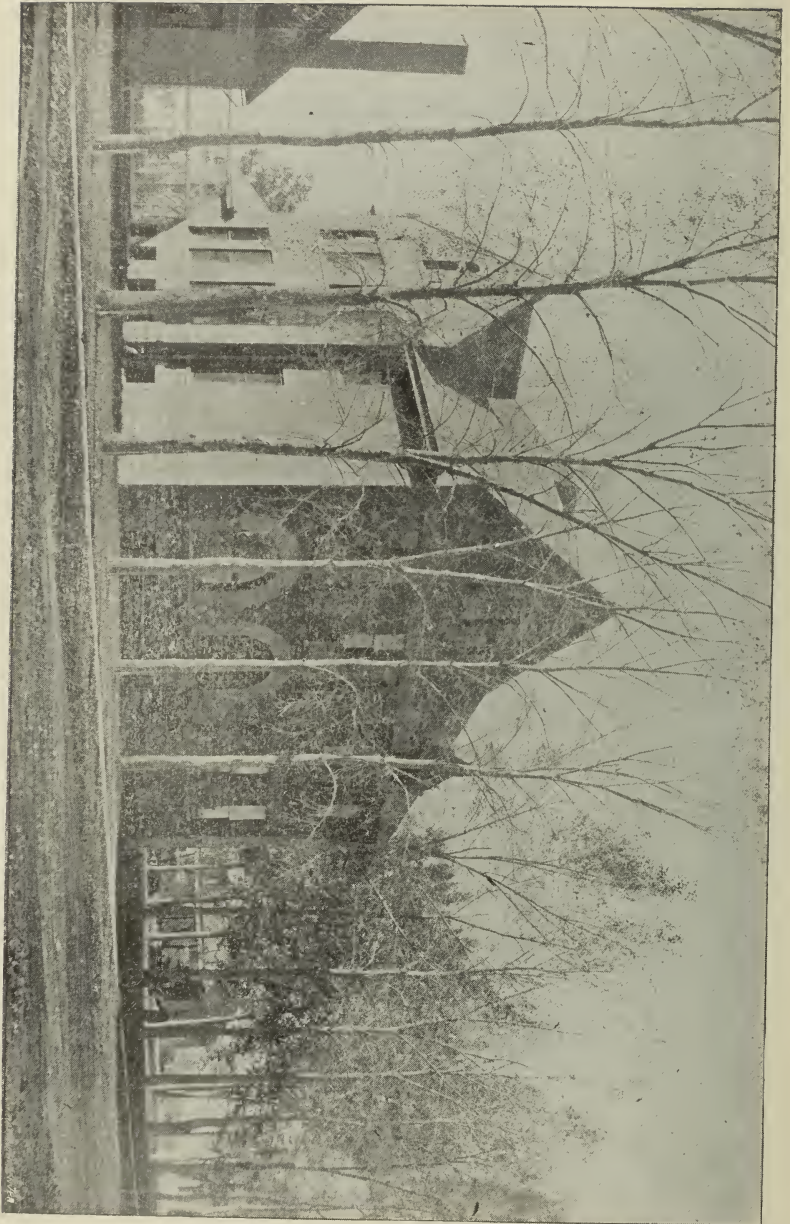
It is a mutual business arrangement that has proved highly successful.

The price of board ranges from \$2.00 to \$2.25 per week. Similar clubs upon a smaller plan are also in operation.

The officers are as follows:

Ralph H. Hess.....President
L. Cale Estes.....Vice-President
R. Waddy Tanner.....Secretary
G. Arthur Webb.....Treasurer
Ralph W. Haynes.....Steward
James N. Clark.....Senior Auditor
William J. McDermith..Junior Auditor

HORTICULTURAL HALL.





DRUM CORPS—COLLEGE CADETS.

AGRICULTURAL CLUB.

This is an organization of young men who believe that farming is both a science and an art.

That it is the noblest among all the vocations of man.

They are banded together for the promotion of the Agricultural Department of the College, first of all; then, for mutual improvement in every way that befits the calling to which they are devoted.

The home life, the literary life, and the social life of the farm engage their attention. They also specialize upon such phases of agriculture and kindred sciences as require original investigation and research by means of treatises and bulletins.

Meetings are held every two weeks for the discussion of agricultural subjects and scientific problems of the day. Papers presented by members of the Club are followed by a general discussion.

The officers are:

William F. Marshall.....President
Waltgen B. Smith.....Vice-President
Fred C. Bishopp.Secretary and Treasurer
R. E. McClave, }
Ralph W. Haynes, }Program Com.
H. J. Faulkner, }

No expense beyond that of living at home except the purchase of a uniform—\$12.00.

PARLIAMENTARY LAW.

A class of nearly one hundred members was organized early in the year for the study of Parliamentary law, under the efficient leadership of Ralph H. Hess, assistant in Mathematics. This body resolved itself into various well-known organizations for practice. It will be continued during the year 1900-1901.

FARMERS' INSTITUTES.

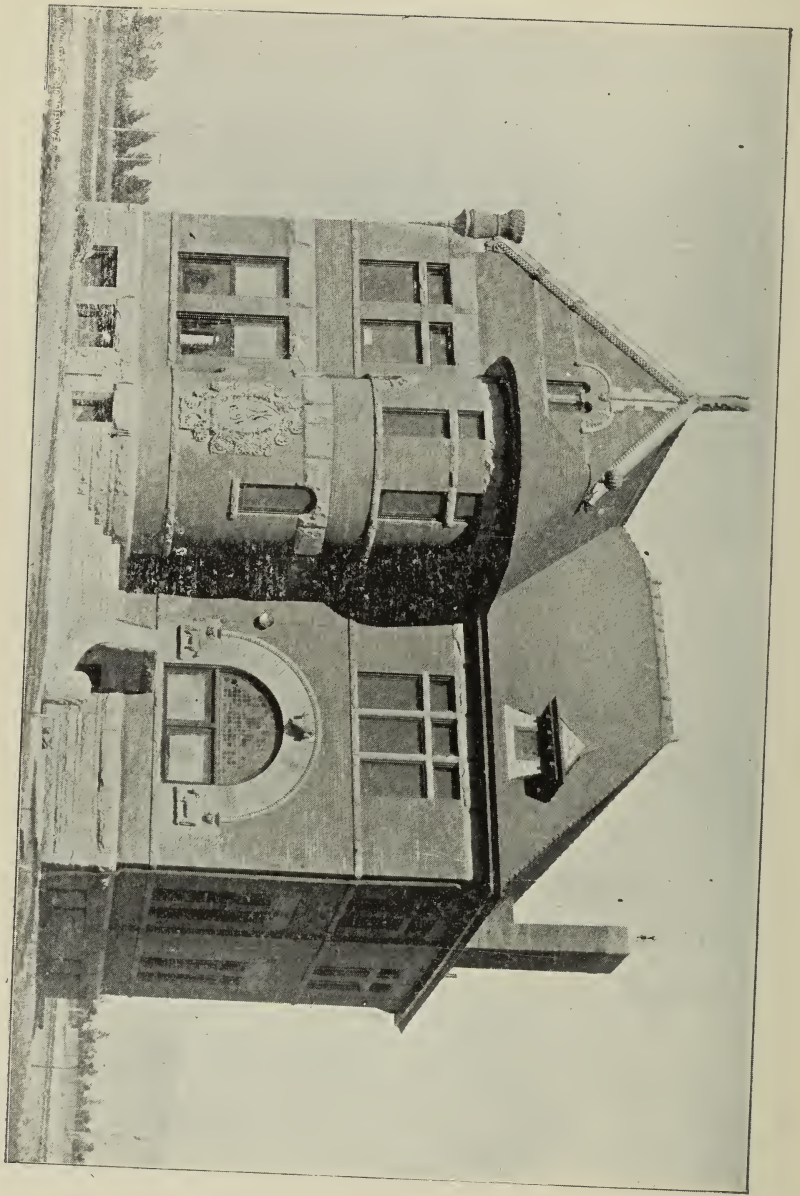
The Agricultural College is not merely for the education of young men and women in the practical sciences, but it is designed to bring the latest and best information relative to agriculture, to those who need and desire it, in the most direct way possible.

To this end Farmers' Institutes have been found the most available means.

During the winter months members of the Faculty will meet the agriculturists of the various sections of the State in convention and confer with them as to the best methods for the development of Colorado along these important lines. Thus, the results of experimentation in every kind of soil product are brought immediately to those most interested in them. Also, the various uses of fruits

Thirteen states and countries represented in 1900-1901.

AGRICULTURAL HALL,





COOKING CLASS.

and growing crops and the means for their removal are set forth in short, helpful talks, popularizing the most scientific research, and in general reducing scientific investigations to terms of utility.

Institutes were held during the last season at Grand Junction, Glenwood Springs, La Junta, Rocky Ford, Las Animas, Lamar, Longmont, Loveland, Cherrelyn and other points.

The Secretary of the Board, Hon. A. M. Hawley, solicits early correspondence with reference to subjects and speakers for the coming year as well as to the organization of new institutes.

The College also holds itself in readiness at all times for co-operation with the Granges of the State. In fact it is the servant of the people and has no other reason for existence than to serve the interests of the State and general government.

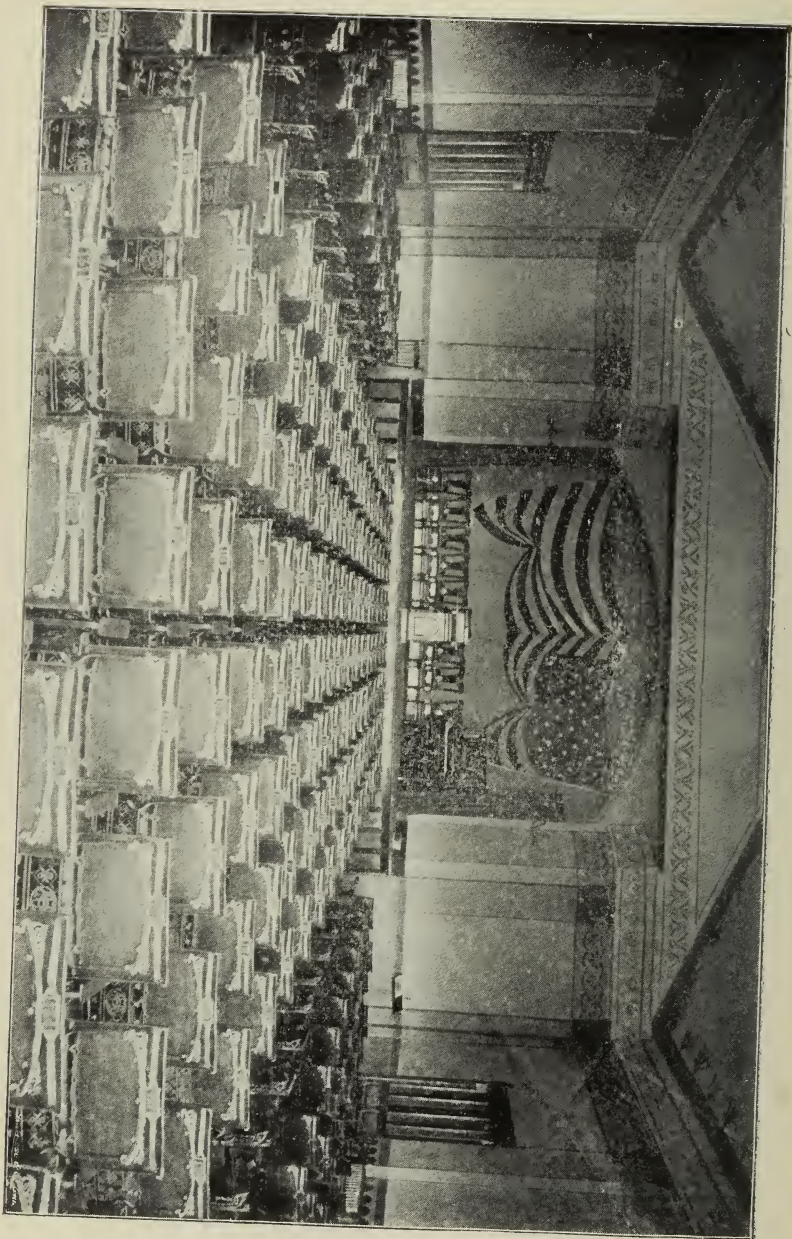
Forty students were enrolled from towns outside of Colorado.

BULLETINS.

Many valuable bulletins have been issued by the Experiment Station upon subjects of vital interest to the agriculturists of the State and United States. These are for free distribution. By addressing L. G. Carpenter, Director of the Experiment Station, such bulletins as are not out of print may be obtained at once. If so desired, the name of the correspondent will be put on the permanent mailing list. The following bulletins may be had on application:

NO	TITLE	AUTHOR
33.	Seepage or Return Waters from Irrigation.....	L. G. Carpenter
34.	Cattle Feeding in Colorado...W.	W. Cooke
35.	Alfalfa.....	Wm. P. Headden
36.	Sugar Beets.....	{W. W. Cooke } Wm. P. Headden
38.	Sheep Scab; A Few Insect Enemies of the Orchard.....	C. P. Gillette
39.	A Study of Alfalfa and Some Other Hays.....	Wm. P. Headden
40.	Barley.....	W. W. Cooke
42.	Sugar Beets in Colorado in 1897....	{W. W. Cooke } Wm. P. Headden
43.	(Technical.) Colorado Lepidoptera. etc.....	C. P. Gillette
44.	(Technical.) Further Notes on the Birds of Colorado.....	W. W. Cooke
45.	The Loss of Water from Reservoirs by Seepage and Evaporation.....	L. G. Carpenter
47.	Colorado's Worst Insect Pests and Their Remedies.....	C. P. Gillette

Students are registered this year from eighty-two Colorado towns and cities.



THE CHAPEL—THREE HUNDRED OPERA CHAIRS.

SENIOR COMMERCIAL CLASS,



crown of the day, with its good cheer and fellowship. More than anything else this hour marks the quality of college life.

BOOKS.

The College Library has been well selected as regards scientific and technical subjects. All the best domestic and foreign periodicals are to be found on its tables.

It is free to all the students.

Valuable assistance is given students desiring to investigate special subjects.

President Aylesworth has placed his large library at the service of the advanced students. It is doubtful if it is surpassed by any private library in the State in point of general literature. By combining this excellent literary library with the scientific and historical library of the College, unusual opportunity for general and special reading is afforded.

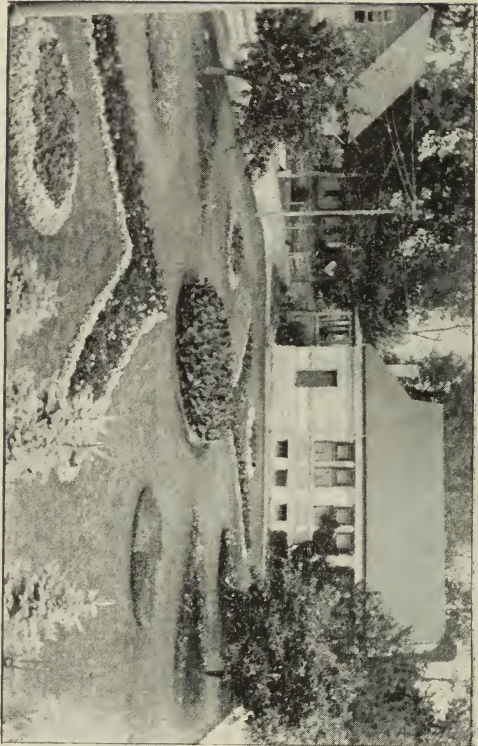
DISCIPLINE.

Nowhere in the West may be found better order and more contentment than among the students of C. A. C.

There is a mutualism between Faculty and students that not only insures freedom without familiarity, but the highest quality of classroom work.

There is no long list of rules to be

The buildings are all heated by steam and lighted by electricity.



INTERIOR VIEW—COLLEGE GROUNDS.



A KITCHEN SCENE—DOMESTIC SCIENCE HALL.

#111. SPANISH-AMERICAN WAR.

evaded. Good behaviour comes from within, not from without. "Justice" is the general rule.

The government is inspirational.

The consequent discipline, quiet, but effectual.

Conscience makes stronger restraint than law.

The fact that Fort Collins is free from saloons and their accompanying vices reduces temptation to a minimum. An additional safeguard is the "open home" policy of the good people of Fort Collins.

In the matter of freely granting social intercourse to the students who come from abroad, the city has always had at heart the welfare of the young men and young women who, for a time, are committed to the oversight of
THE STATE AGRICULTURAL
COLLEGE.

DOMESTIC SCIENCE.

Special provision has been made for young ladies, not only by the "Ladies' Course," which includes the best modern methods of cooking, sewing, and general house care, but by the loyal support given to co-education by the Board and Faculty.

The four years' course has for its object the typical, educated, Colorado woman, ready for the world's work, side

by side with her brother, and later, to become a veritable "helpmeet" to her husband. She will solve with him the problems of civilization.

THE COLLEGE HERDS.

The stock on the College Farm is intended to represent the best of the various breeds and to serve as object lessons to the students. Much money has been expended recently in adding to the stock, and other breeds will be added as fast as the funds of the institution permit. Beef cattle are at present represented by a herd of extra fine registered animals. The bull, Perfection 2d, that stands at the head of this herd, is not equalled anywhere in the State.

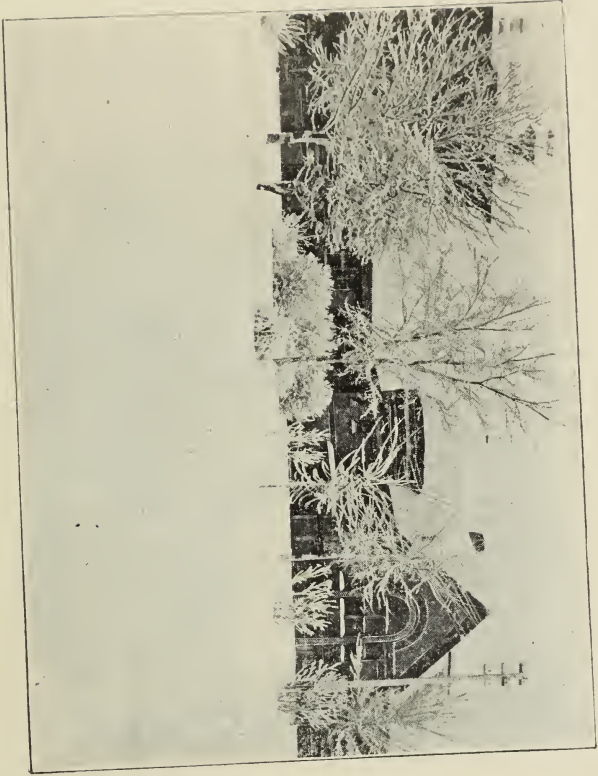
The Jerseys were chosen to represent dairy cattle, and constitute a herd of choice animals, whose product furnishes material for the use of students in the dairy classes.

Sheep are represented by some fine registered Shropshires that demonstrate how rapidly it is possible for sheep to grow under Colorado conditions of food and climate. There is also a small flock of grade Merinos that is being used for experimental feeding.

The pigs on the Farm are Berkshires, of the finest lineage. The foundation stock was selected from some of the best herds of Nebraska and Missouri. It



DOMESTIC SCIENCE BUILDING.



THE CHAPEL IN WINTER

was further improved by importations from Kansas and selections from prize winners at the World's Fair at Chicago.

Last, but not least, are the heavy teams of Clydesdales that are the pride of the College.

During the season of flowers the College grounds are a veritable paradise.

COLLEGE DEPARTMENTS.

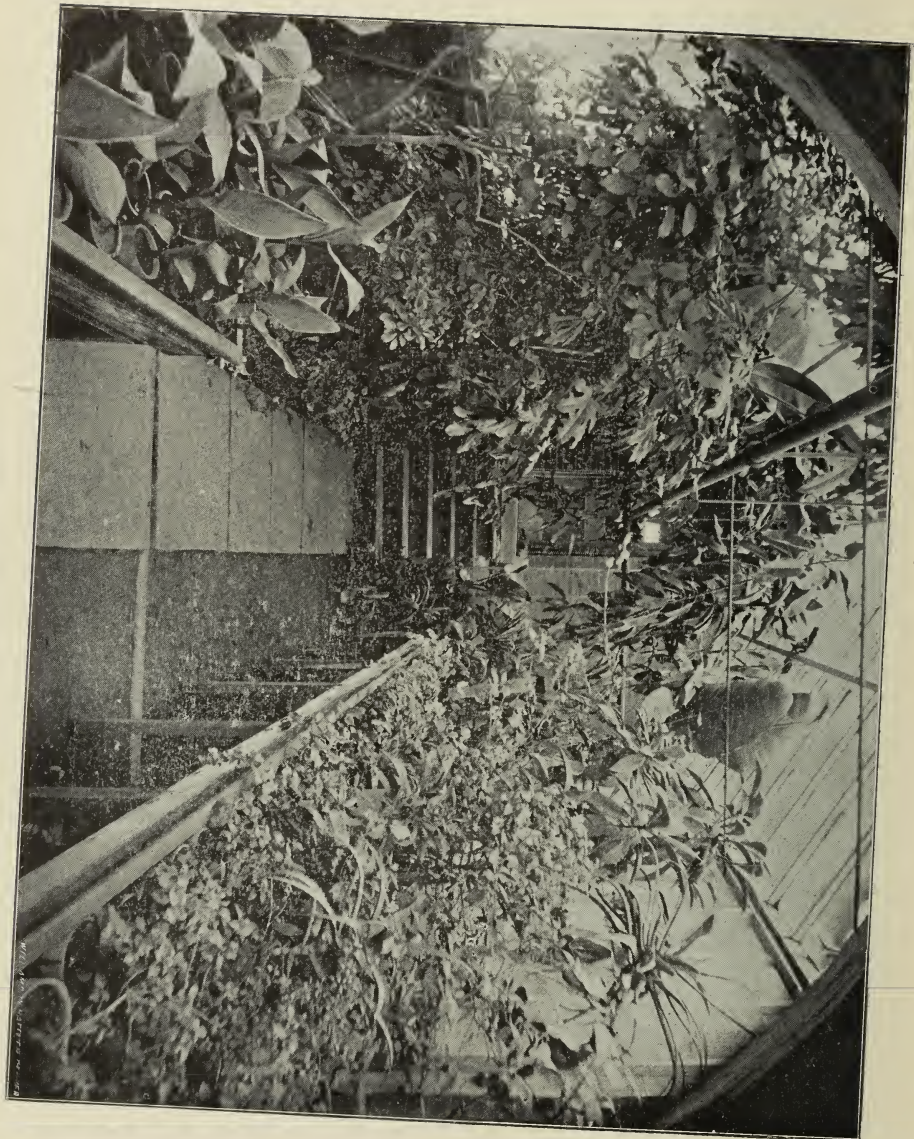
AGRICULTURE.

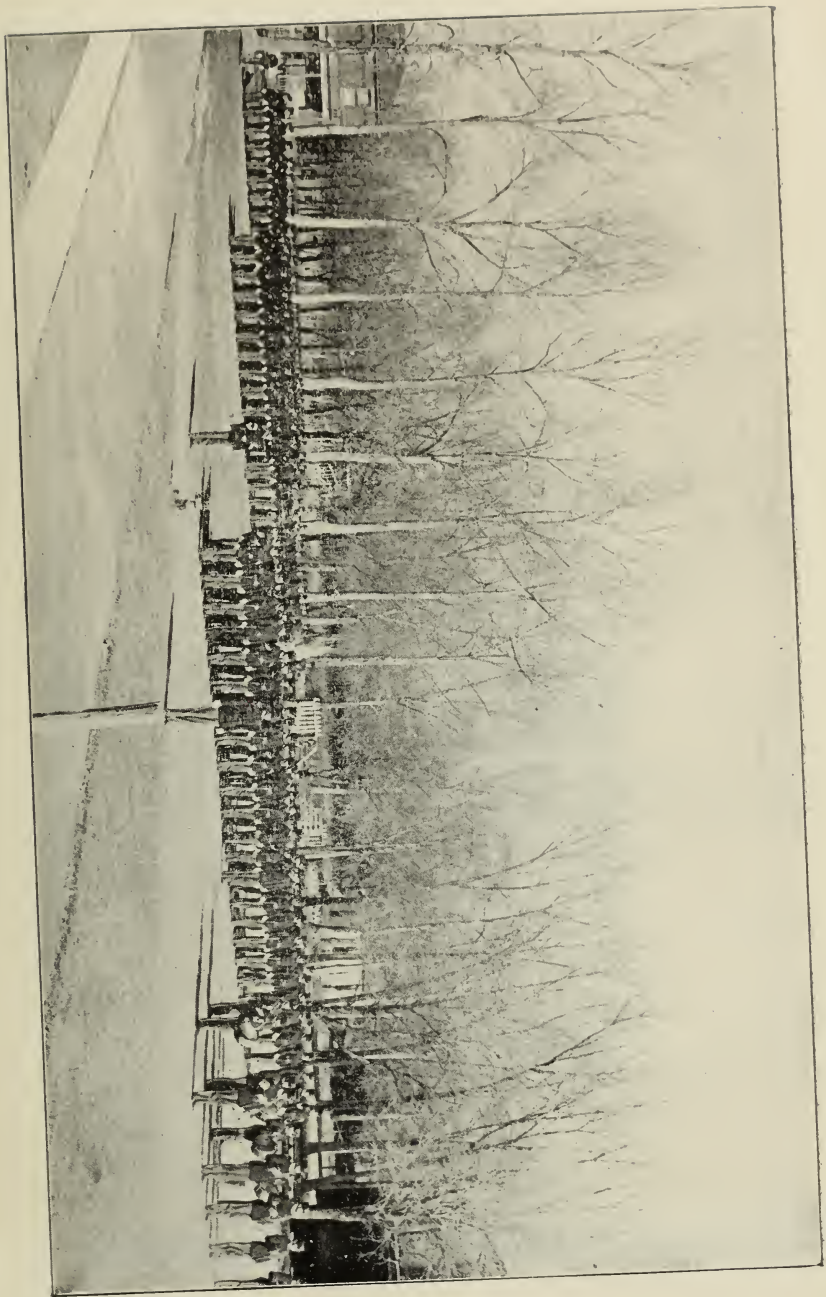
The course of instruction is designed to educate students for agricultural pursuits and scientific investigations. Some of the subjects taught are farm buildings and roads, stock breeding, dairying, nature of soils, practical irrigation, care of live stock, and the fertilization and cultivation of crops. The whole course is illustrated by the experimental work always in progress and is supplemented by daily practical work on the farm and in the laboratory.

BOTANY AND HORTICULTURE.

Botany—structural and systematic—is taught from text-books and by lectures. A great variety of plants is at hand. In physiological botany, the students use compound microscopes and have laboratory practice two hours daily. An herbarium of native and foreign plants and the greenhouses furnish material for study. Instruction in horticulture is given, principally, by means of lectures. Some of the subjects considered are vegetable gardening, methods of plant propagation, forestry, pomology, floriculture, and landscape gardening.

A CORNER IN THE GREENHOUSE.





CADDET BATTALION.

ZOOLOGY AND ENTOMOLOGY.

Two terms are given to physiology. The laboratory is well equipped, possessing, among other things, a fine series of mounted skeletons; an expensive manikin; large models of the eye, brain and ear; and compound and dissecting microscopes; microtomes, and dissecting instruments. Students in Zoology are furnished with all necessary equipment for laboratory work. Particular attention is given to the economic features of entomology. Students prepare the principal insecticide substances and apply them for the destruction of insects.

CHEMISTRY AND GEOLOGY.

Students acquire a thorough mastery of the elementary principles of chemical science. They have two hours' practice daily in the laboratory.

Keeping in mind the object for which the College is founded, we have so planned our chemical course as to prepare the student for the general application of chemistry to the industrial arts, while seeking thoroughly to ground him in the application of science to agriculture. A chemical laboratory fitted up with modern appliances, balance-room, foul-gas room, and desks for thirty-six students, is ready for the classes.

Geology receives the attention which its importance as one of the foundations of agricultural science demands.

CIVIL AND IRRIGATION ENGINEERING.

The subjects taught are irrigation engineering, the materials of engineering, surveying, construction of dams and reservoirs, agricultural hydraulics, trusses and bridges, meteorology, and physics.

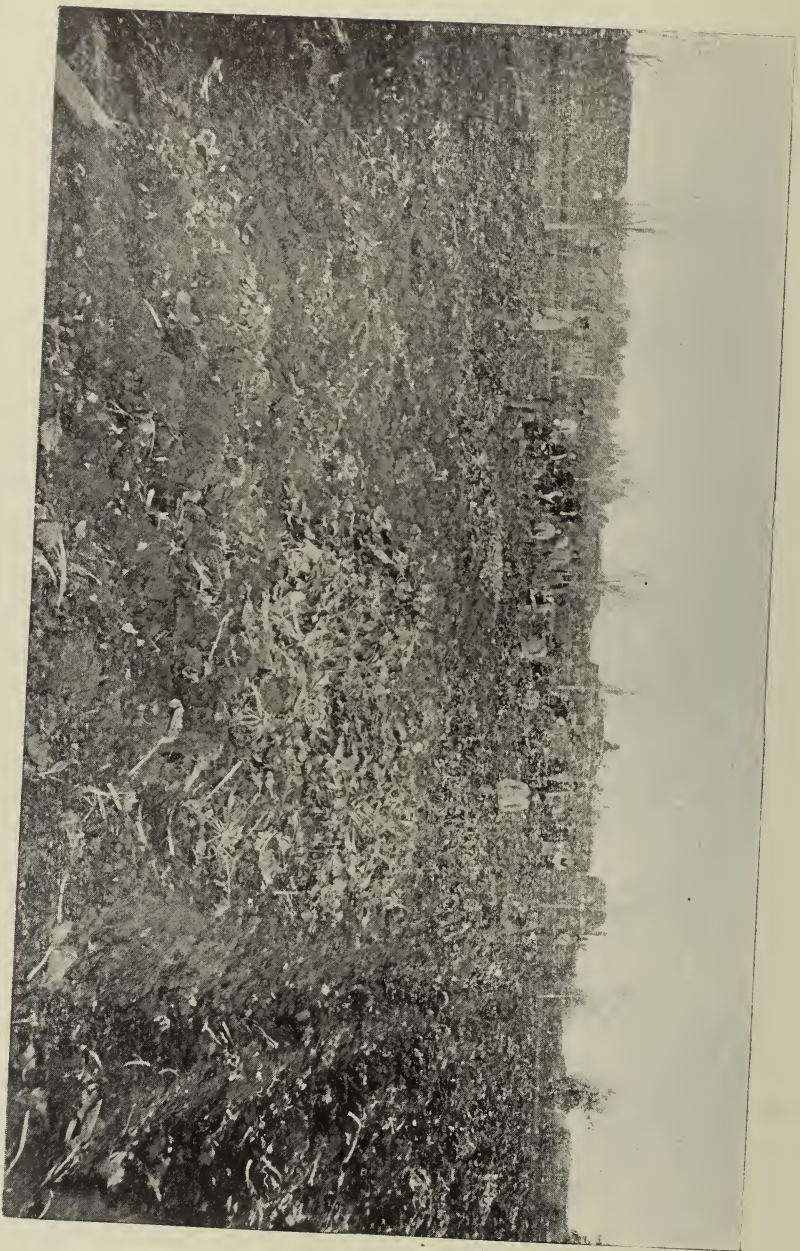
The department has fine physical and hydraulic laboratories, a draughting-room, a good supply of standard engineering instruments, testing machines, and a complete set of meteorological instruments.

MECHANICAL ENGINEERING.

The studies and practice of this department prepare students for the profession of the mechanical engineer. The instruction, theoretical and practical, covers a wide field. The special studies of this course are as follows: Drawing; carpentry and joinery, also wood-working machinery; pattern making and foundry work; forge work; machine and vise work in metals; principles of mechanism; strength of materials; boilers; the steam engine; and machine design, machinery, and mill work.

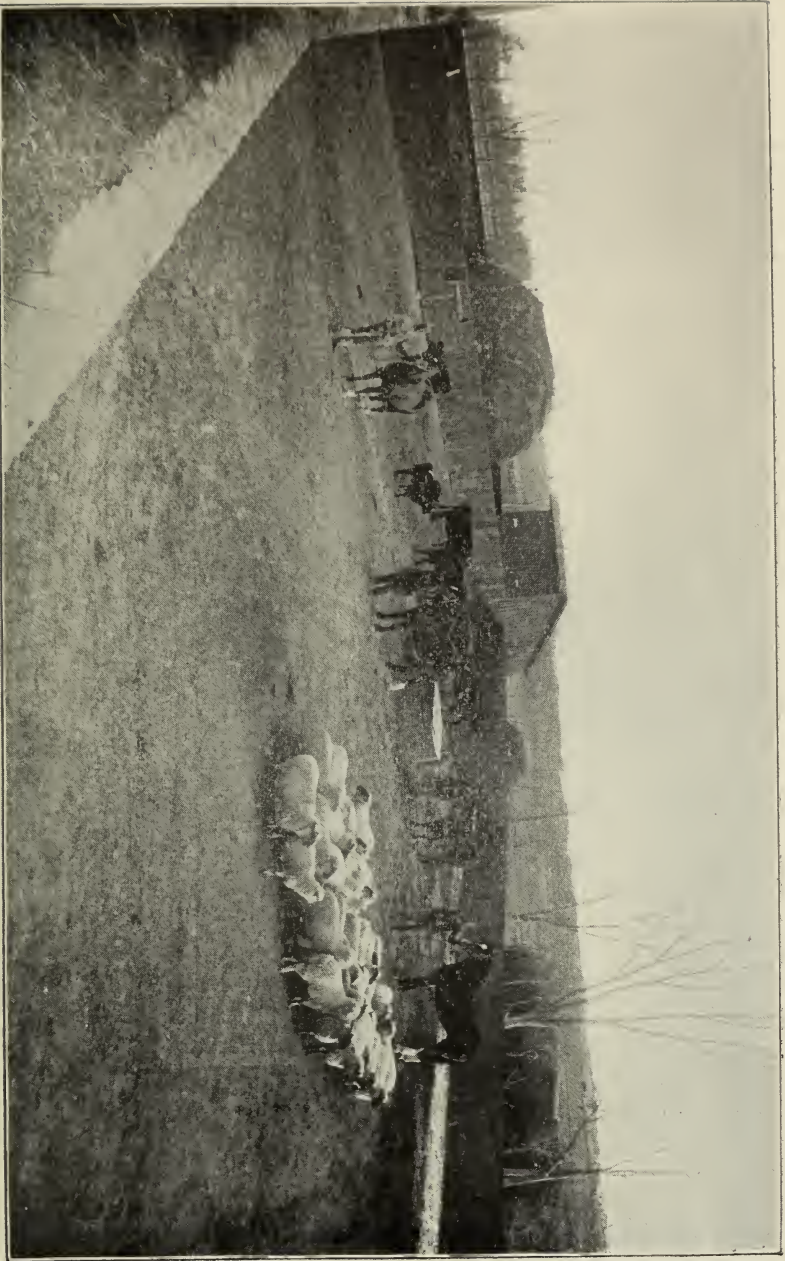
MATHEMATICS.

The course is comprehensive and thorough, especially for the engineering students. The following subjects re-



SUGAR BEET FIELD—COLLEGE FARM.

COLLEGE THOROUGHBREDS—COLLEGE FARM.



ceive careful attention: Algebra, geometry, trigonometry, descriptive geometry, analytic geometry, and calculus. Other branches of mathematical science are taught in the department in which their knowledge has a special application.

HISTORY AND LITERATURE.

A well-rounded education includes a somewhat thorough knowledge of history and English literature. These subjects are studied throughout the entire course. The development of a literary taste is the aim of this work. The study of the Philosophy of History includes such subjects as historical investigation; laws governing human actions; reciprocal influences of religion, literature, and government; comparisons and criticisms of past civilizations; and the elements found in our present civilization.

The College Library is an important factor. Its shelves are well filled with standard literature, and with works of special interest and assistance to the student of history.

RHETORIC.

The ability to write a clear and an elegant English sentence is an accomplishment much to be desired; and it is a recognized fact that English forms an

important branch in all well-rounded courses of study.

Composition writing and the preparation of orations form an important feature of the work in English.

PHILOSOPHY.

The courses in Psychology, Logic and Ethics bring to the student the latest findings in these great subjects.

There is not only a thorough technical study required, but above everything else the teaching is of such quality as produces good citizenship. It is as important to know the mind itself as to know discovered truths in order to arrive at noble living.

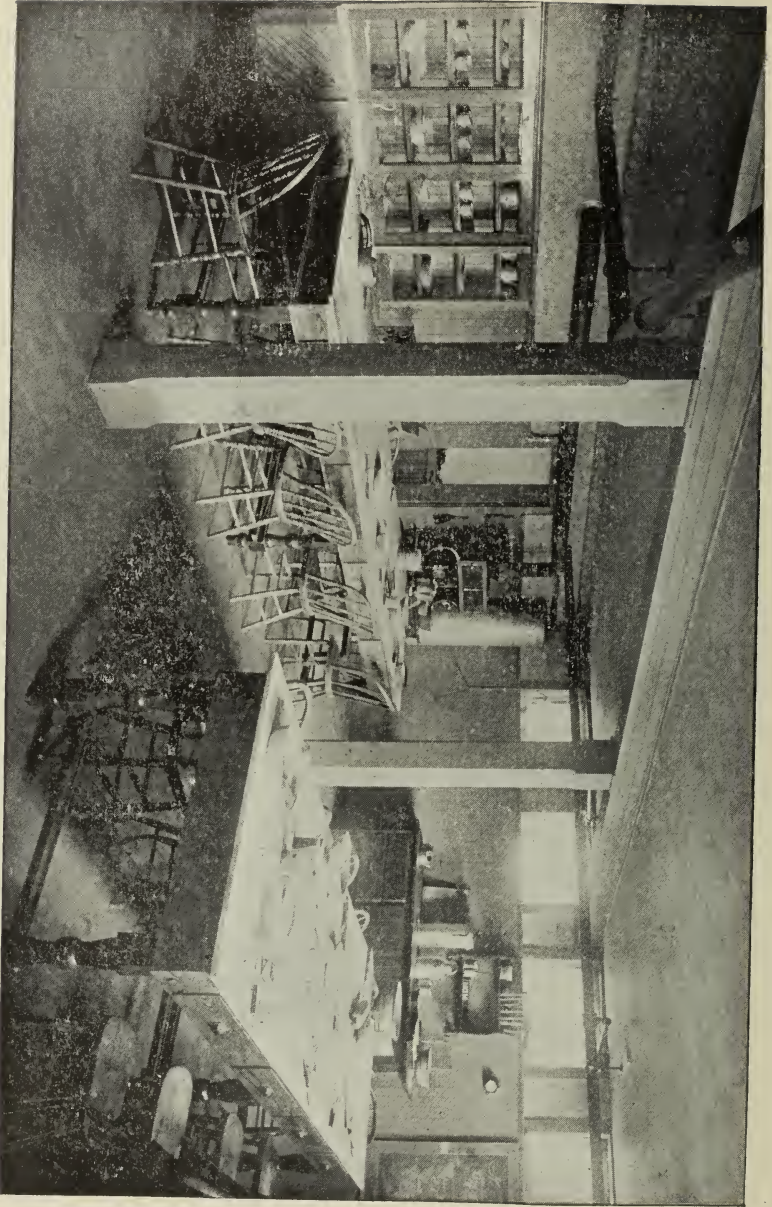
Not only are mental processes but ethical set forth.

The way to arrive at a given human condition is as important as to know the condition itself.

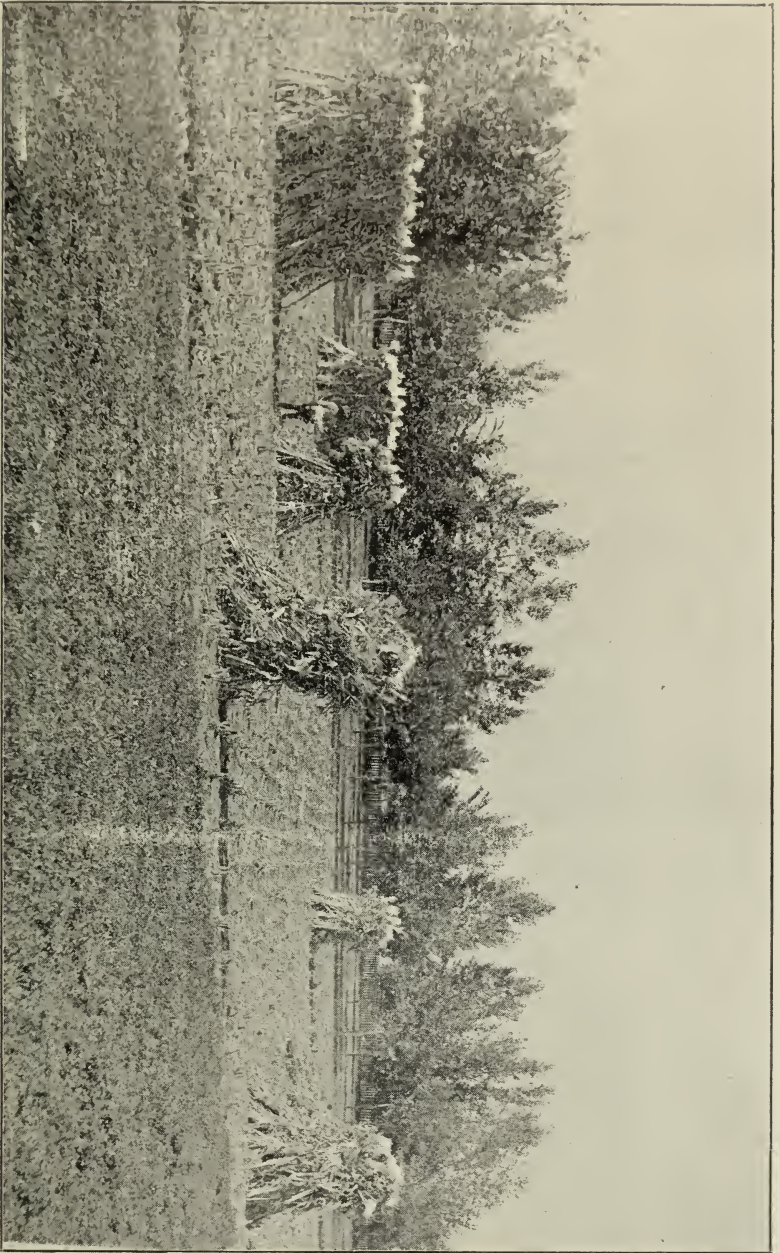
CONSTITUTION. SOCIOLOGY, AND POLITICAL ECONOMY.

Under the wider generalizations of Sociology, Political Economy is taught as the science of commercial relations, including land, labor and capital. And the Constitution of the United States is presented as the noblest example of both social and commercial relations.

"To be loyal, to be just, to be humane," is the triple expression of these three great sciences.



KITCHEN—DEPARTMENT OF DOMESTIC SCIENCE.



FIELD SCENE—COLLEGE FARM.

COMMERCIAL COURSE.

This course covers a period of two years. Its work is not designed to be a short cut to the business world, but to afford a thorough and practical training for some forms of commercial life and, with this special training, to give some general culture. Some of the subjects taught are spelling, penmanship commercial arithmetic, commercial correspondence, typewriting, stenography, bookkeeping, commercial law, international law, business practice and banking, elementary algebra, plane geometry, civil government, political economy, United States history, general history, grammar, literature, and composition and rhetoric.

MILITARY DEPARTMENT.

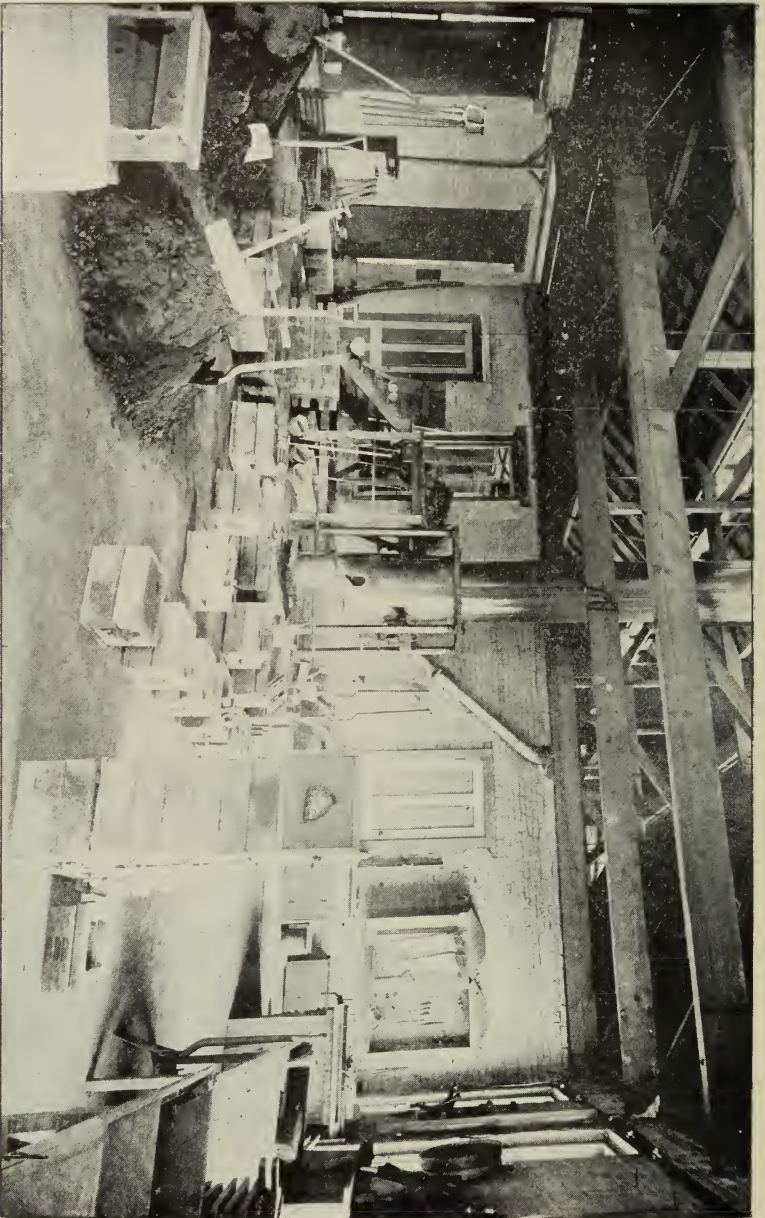
That military training and military instruction are essential elements in an education is a recognized fact. At the beginning of the Civil War the schools and colleges were few where this branch received any attention. In consequence, men who were capable drill masters and fitted for subordinate office in the army were very few.

It was in the following year, 1862, that Congress made provision to correct this state of affairs. The "College Land Grant Act" was passed. This was the beginning of what are now known as

Agricultural and Mechanical Colleges. In colleges established under this act military instruction is made of fundamental importance. It is compulsory on all male students of the Agricultural College of Colorado.

As a result of this work large numbers of young men are subjected to military discipline at the time in their lives when it has the best effect. Men who complete the four years' course should be able, if occasion demand, to raise and fit for service an infantry company or battalion. Excellent results have already been made manifest in the quick conversion of citizens into disciplined soldiers, as was the case in the late war. It was, doubtless, the infusion of trained men from college battalions that made this remarkable change possible.

Even the young man who has no ambition to be a soldier or to know a soldier's duties, is given the physical exercise which produces the elastic step, aids development, and gives easy control of the body. Furthermore, the cadenced step of marching troops, the display of the national flag, the blare of trumpet and the beat of drum will stir in the dullest heart emotions of highest patriotism.



FOUNDRY ROOM—DEPARTMENT OF MECHANICAL ENGINEERING.

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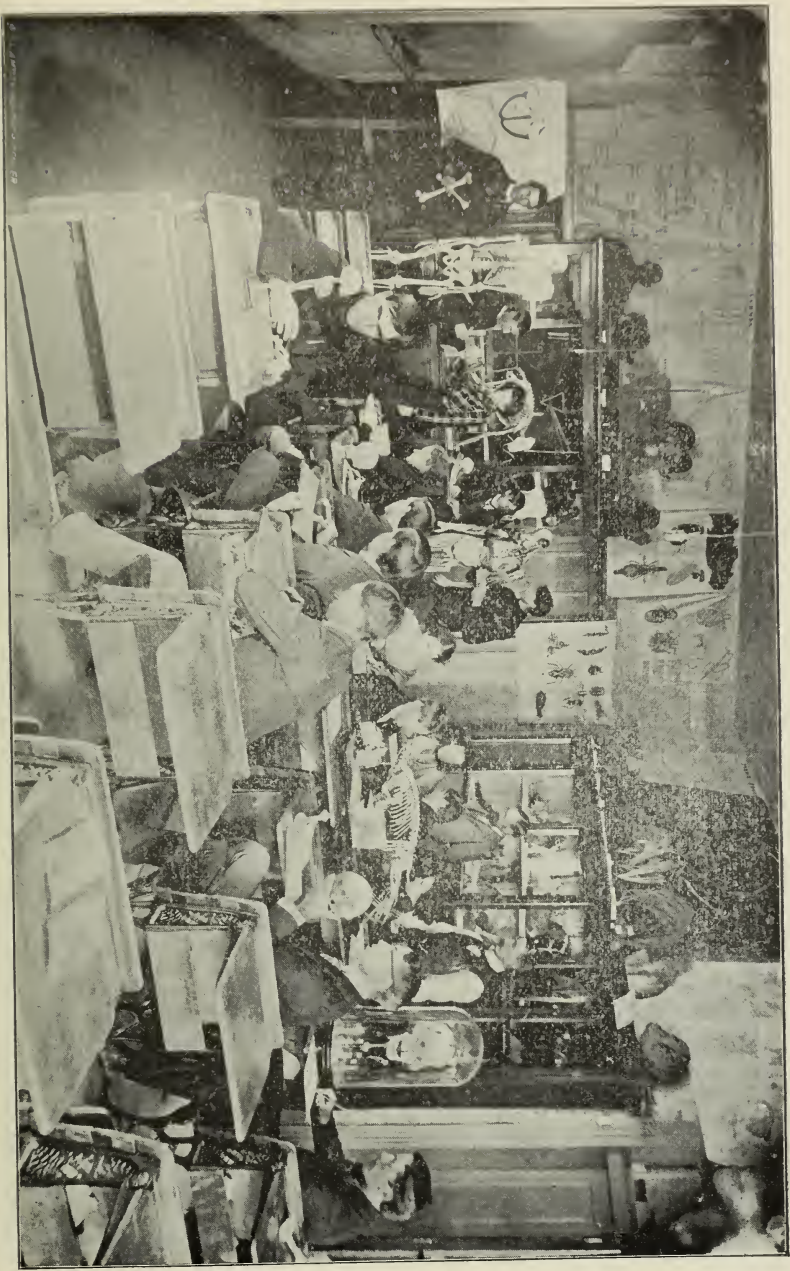
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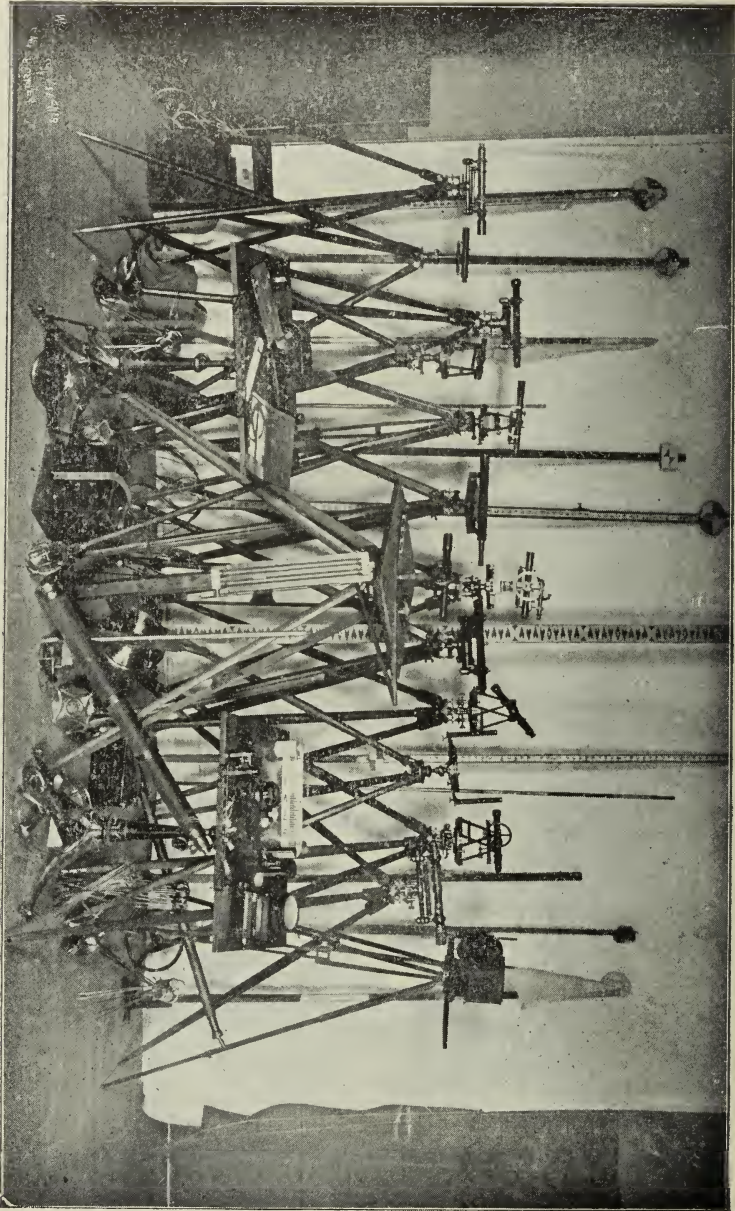
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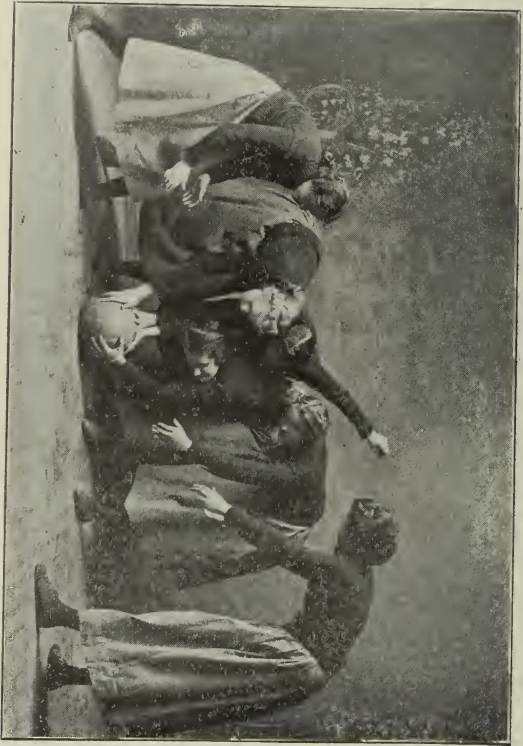




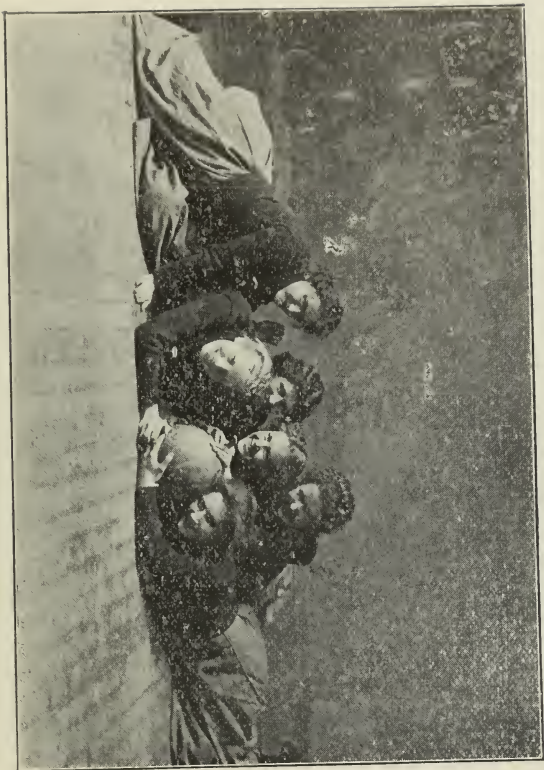
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ORCHESTRA AND GLEE CLUB.



BASKET BALL TEAM.



BASKET BALL TEAM.



A COMPASS FIELD PARTY.

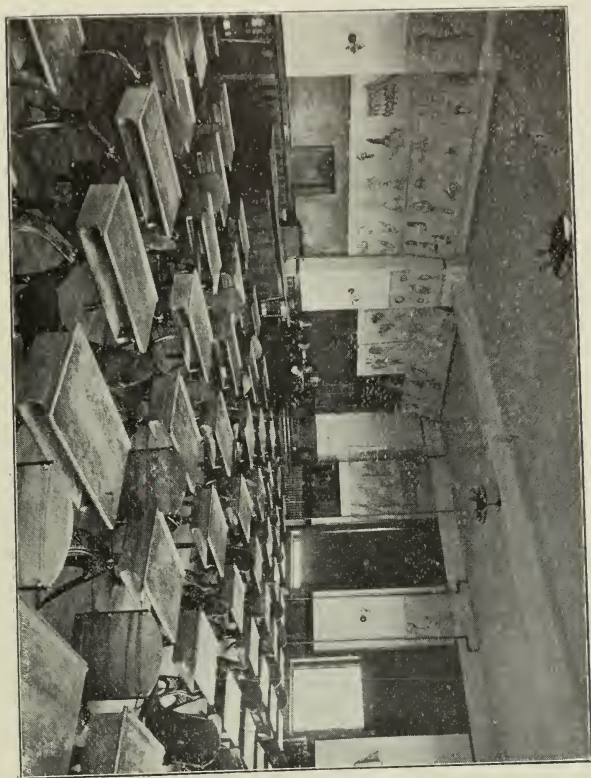


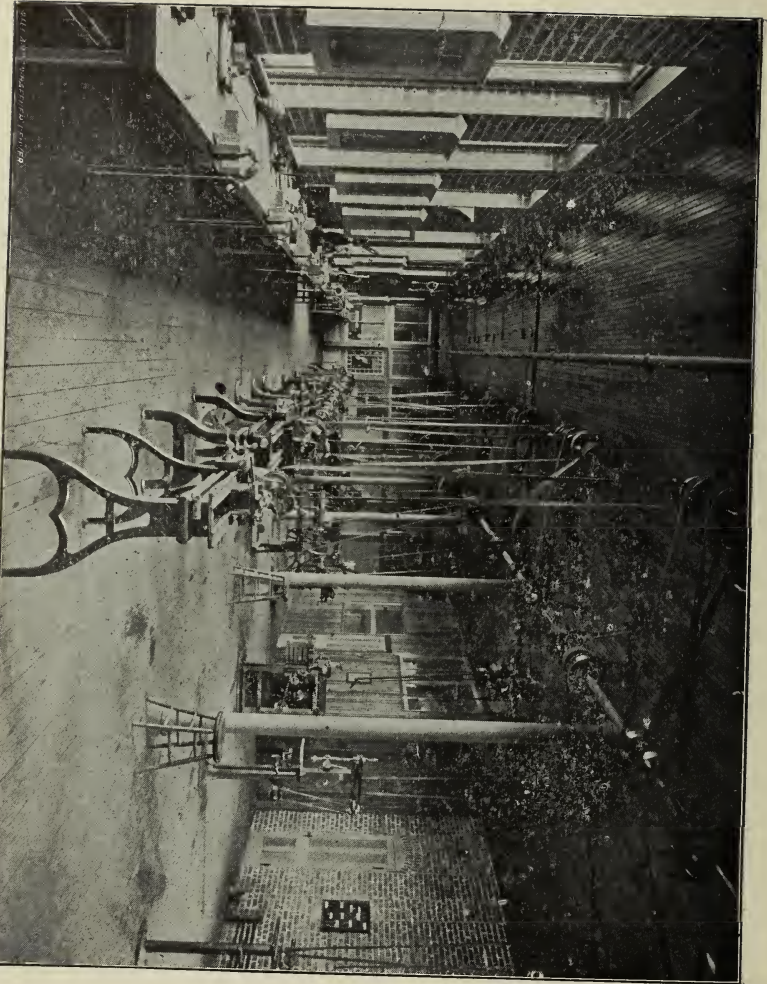
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ADVANCED ENGINEERING CLASS.

CLASS ROOM - HORTICULTURAL HALL.



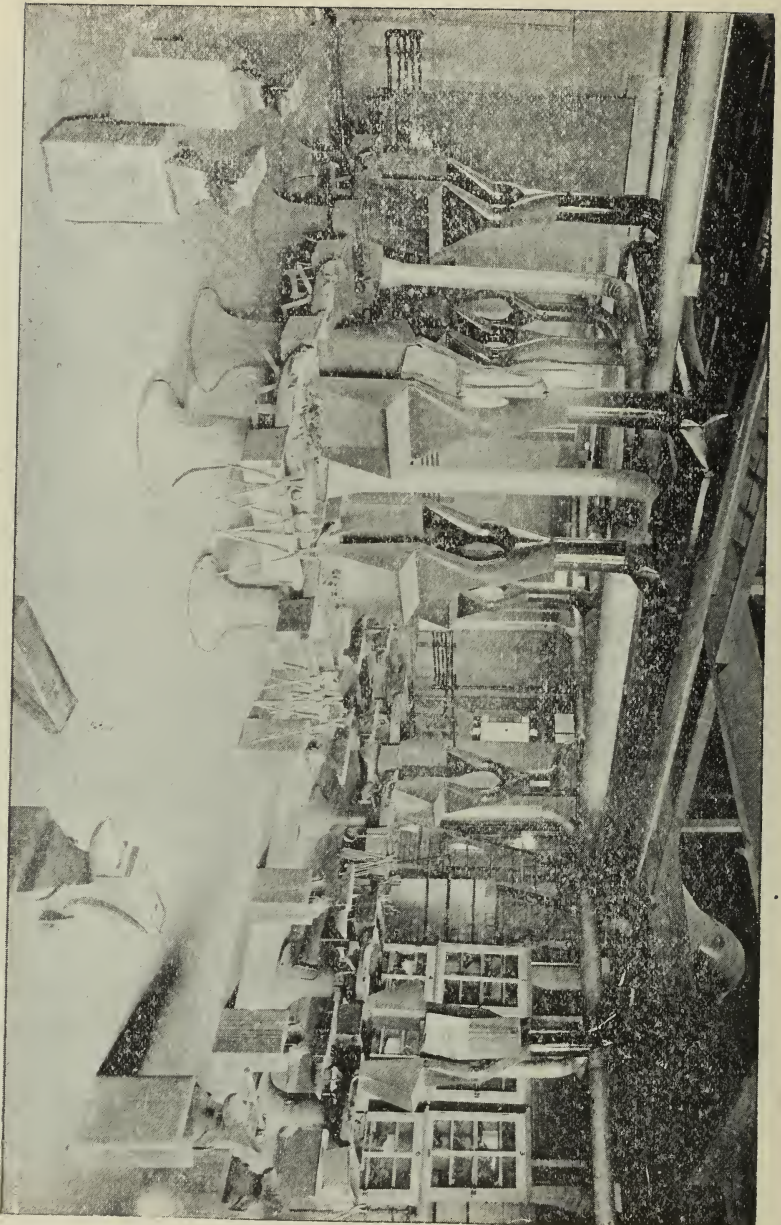


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FOOTBALL TEAM.

BRADLEY

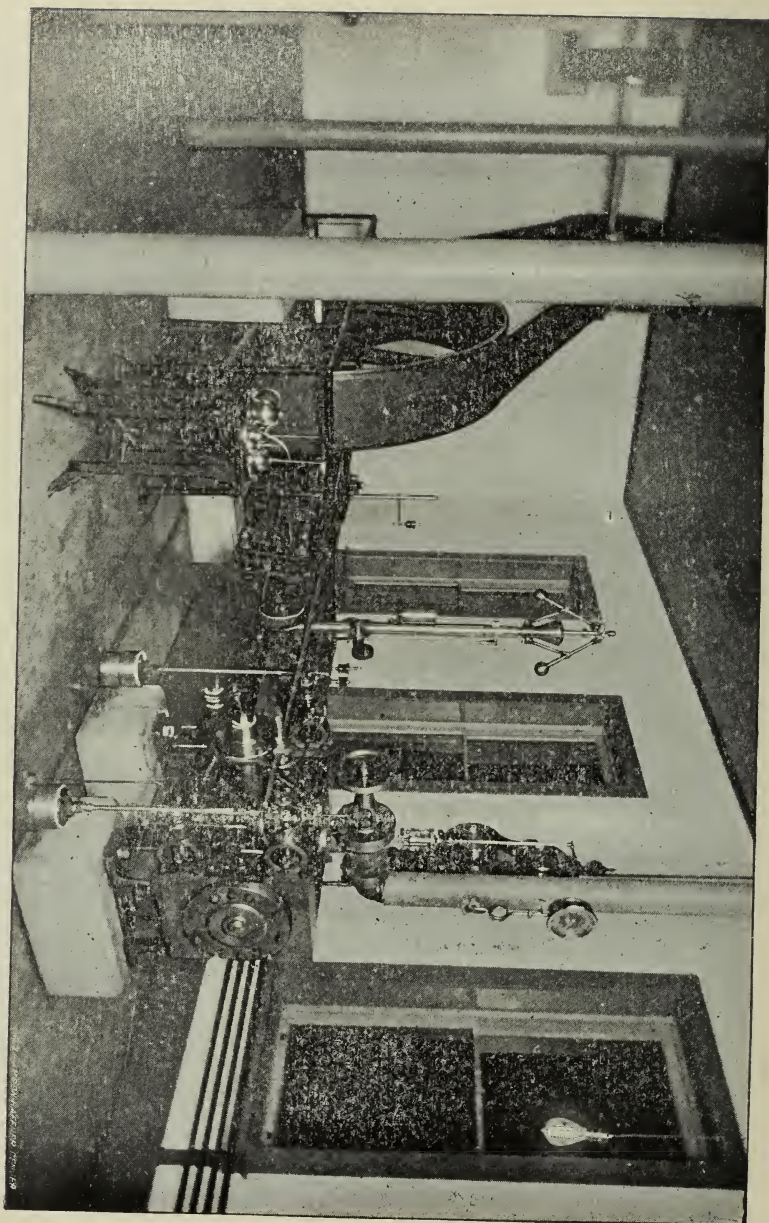


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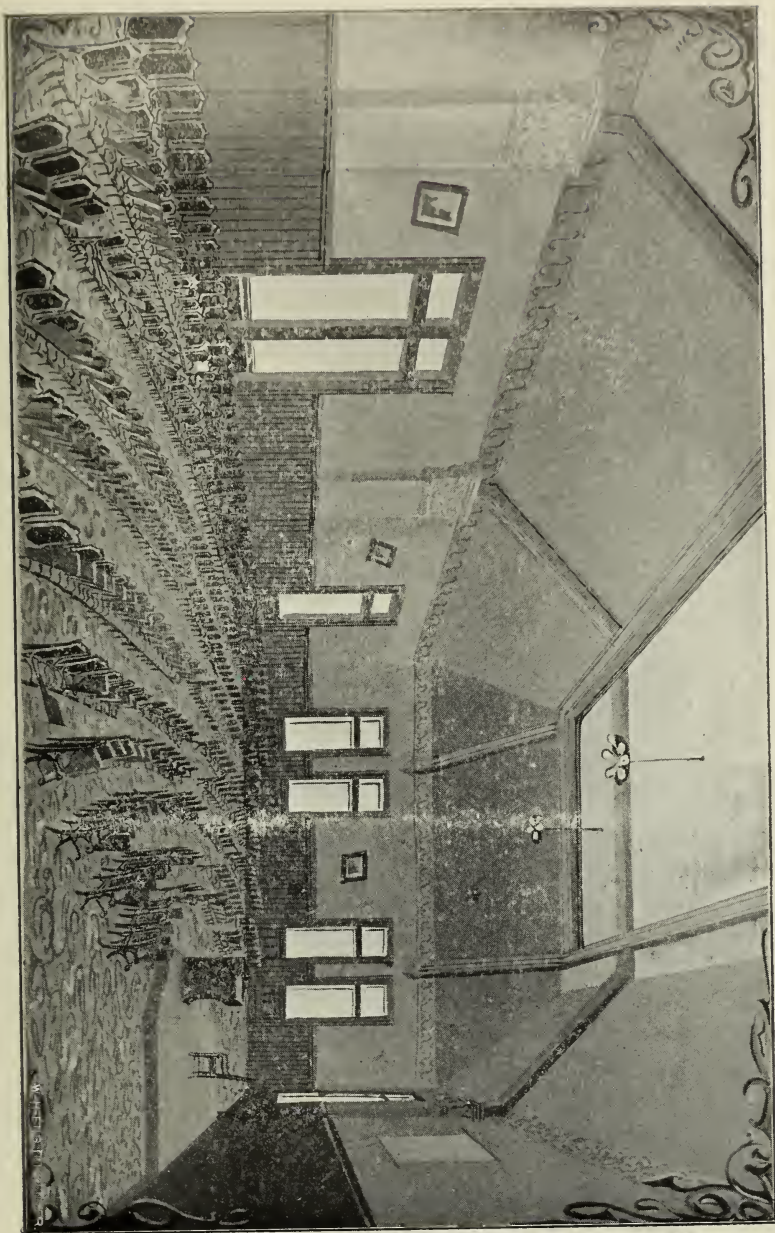


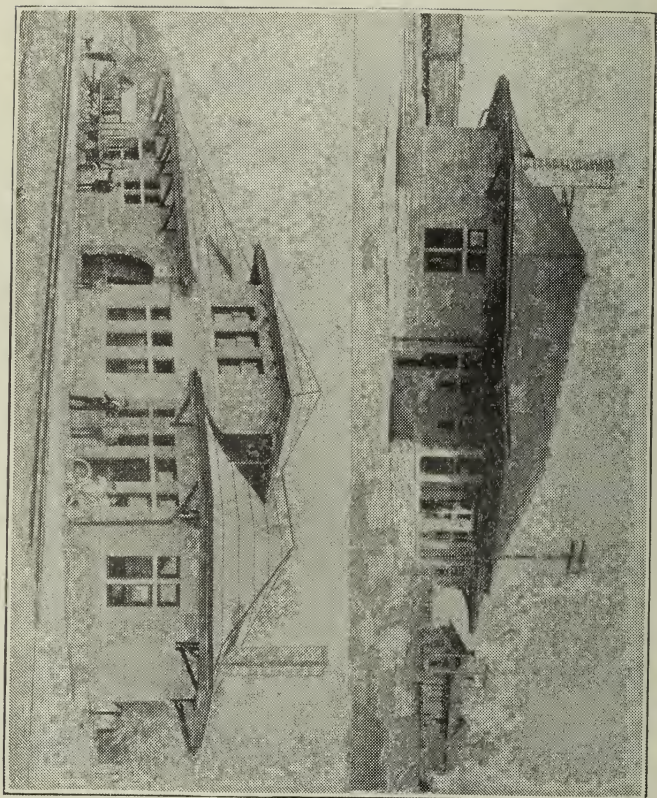
SENIOR CLASS.

ENGINE ROOM--DEPARTMENT OF MECHANICAL ENGINEERING.



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