

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 12.

LANSING, MICHIGAN, TUESDAY, JUNE 18, 1907.

No. 39



President Theodore A. Roosevelt addressing Students and Alumni of the Michigan Agricultural College, Graduating Exercises and Fiftieth Anniversary Celebration, May thirty-first, Nineteen hundred and seven. Photograph Copyright A. S. Lyndon, Ann Arbor, Michigan 5311907.

Copies of the original photograph from which the above cut was made may be had by writing Mr. Lyndon. The original is in size 7 $\frac{3}{4}$ by 21 inches.

THE SEMI-CENTENNIAL.

The Semi-Centennial of the College has come and gone. It was a most notable event and was celebrated in a dignified and proper manner. The College has received many congratulations from prominent people upon the successful way in which the whole celebration was carried out; but it has a far broader significance than the mere celebration of the event. There perhaps has never been held in this country a meeting of educators

which would equal in all respects the company which gathered at the College on this occasion.

It has demonstrated the ability of the "new education" to stand alone, and it will give farmers and the other industrial classes greater pride in their callings and far greater confidence in their own peculiar institutions. In the future no one familiar with the work of the Agricultural and mechanical colleges will offer apologies for their existence. They represent a distinct type of education which has earned a place equal in rank to the old established classi-

cal and literary courses. This jubilee is really the first time that it has been given this recognition.

The celebration would have been a great event without the presence of President Roosevelt. The large number of representative educators from all parts of the country and from foreign countries was a great compliment to this institution and to the work it has accomplished during the past fifty years. To be honored with a visit from the president of the United States on the occasion is, of course, an exceptional honor and greatly appreciated. This institu-

tion understands that this compliment extends far beyond the confines of this state. It is a distinct recognition of the great work accomplished by the land grant colleges in the various states.

With increased encouragement and pride, this college turns its face toward the coming half century and renews again its pledge of faithfulness to the interests of the industrial classes for whose uplift it was brought into existence and whose well being it shall continually try to advance.

A. A. A. C. & E. S.

The election of President J. L. Snyder to the presidency of the American Association of Agricultural Colleges and Experiment Stations is a recognition of long and very helpful service on the executive committee of that association. President Snyder was elected to the executive committee in Washington some five years ago. He has served on the committee by virtue of annual election thereto since that time. This committee has had a large number of hard problems to solve and many delicate situations to handle. The relation of the Department of Agriculture to the separate stations has been considered on the part of the station by this committee and the work of the committee has been most satisfactory and has brought about signal results.

This committee has represented the association at Washington in various relations with the general government. It has required more than ordinary skill and wisdom to so handle the college matters before congress and the department as to bring good and no evil from events that were transpiring at the capitol.

After five years of service on this committee, President Snyder has been advanced to the highest office in the gift of the association. This is a compliment paid to but few educators. His immediate predecessor has been Prof. L. H. Bailey, of

Cornell. Preceding him have been distinguished college presidents and station directors, including such men as President Buckham, of Vermont; Dean Henry, of Wisconsin; President Harris, then of Maine; Director Voorhees, of New Jersey, and others. The Michigan college has cause for just right in the advancement of her president to this noteworthy position.

THE AGRICULTURAL COURSES.

While the world stands at one side for the man that knows where he is going, it extends the glad hand to the man who knows how to do things when he gets there. Competition is bound to be very keen in the future whether these times continue or not. The man who is best fitted for his work will get the best work to do and with the best work the highest remuneration, not alone in money but in breadth of life and in the pleasure of doing good things well. It sometimes appears that the college course is overvalued in the world. What our four and five year courses do is to concentrate into a few years the experiences of a lifetime. These courses are broad taking in the experience of humanity in language, in the humanities, in the sciences and in the special lines of work which any student may elect.

In English the student is habituated to the correct use of his mother tongue, is trained to write and speak correctly and is trained moreover to think so correctly and cogently as to be able to speak clearly. In mathematics he is trained in algebra, geometry, trigonometry and surveying, getting a broad foundation for the lines of work which come later in the course. The value of

this mathematical training cannot be over-estimated in this day of mechanics and machinery. Among the sciences none come first and none last. They are all of fundamental importance. Chemistry has to deal with the make-up and constituents of feed stuffs and fertilizers. It has also to do with the arts of manufacture and a host of graduates of our college have been led off into lines of chemical manufacture by the excellent drill given at M. A. C. in qualitative and quantitative work. Botany has to do with nature's method of converting the elements of the soil and air into organized forms. Here a thorough drill is given in systematic botany, in plant physiology and in the botany of fungi and plant diseases generally. Bacteriology is relatively a modern science. It explains phenomena which were not understood before its birth. M. A. C. has the best equipped and largest bacteriological laboratory in the Middle West. To these laboratories, properly prepared students are welcomed and given a training in the fundamentals of bacteriological science. Geology and general biology are both offered in the regular course in agriculture. Entomology has to do with the insects that either harm or help humanity. This new department lays special stress upon economic insects and the regular students are trained to recognize their friends or foes.

With minds thus equipped by a study of the sciences, the young men approach the technical subjects of dairy, fruit raising, stock feeding and judging, and forestry. Since these technical studies are built upon a broad foundation the graduate is well balanced and can give the reason for his methods. He is a broad man and bound to be a useful citizen. Every man who has regard for his future, who looks forward to the time when he will be competing with his fellowmen for the best opportunities, will take a college course if an opportunity offers itself.

FORESTRY.

The forestry department was established by the State Board in 1902 since which time the forestry course has been in operation and has made rapid and substantial progress. It is one of the four four year courses offered by the college and has enjoyed popularity from its beginning.

The opportunities for the study of forestry here are exceptionally good for there are several plantations of forest trees that have been established under forest conditions at various times during the past 30 years. These plantations speak for themselves and demonstrate beyond question what these trees will do under like conditions.

The laboratory of this department covers 175 acres of the College farm devoted exclusively to the use of this department. There are three woodlots in which different methods of treatment are demonstrated. In these pieces of timber the student has actual practice in determining the growth of trees, making valuation surveys, thinning of timber and other features of forestry work such as the recognition of species, habits, habitats and so forth. There are five acres devoted to a forest nursery where thousands of coniferous and deciduous seedlings are grown every year. The student becomes experienced in the different phases and methods of nursery practice. Plants of suitable size are allowed each student for his personal use. The student learns how to collect and store forest tree seeds and makes and stores cuttings of trees that are best propagated in that manner. Sufficient practice is given with the camera and in the dark room to enable the student to make photographs suitable for the illustration of forestry work. The student has enough practice with the transit that he is able to locate boundaries, determine grades and perform the

(Continued on page 2.)

THE M. A. C. RECORD.

PUBLISHED EVERY TUESDAY DURING THE COLLEGE YEAR BY THE MICHIGAN STATE AGRICULTURAL COLLEGE

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TUESDAY, JUNE 18, 1907.

THIS issue of the RECORD is mailed to several thousand young people throughout the State, many of whom, we trust, are contemplating a college course. We have endeavored to give a brief review of the courses offered at this institution and confidently believe that those who will take the time to read this copy of our college paper through will be glad to know something more definite concerning our work. Our new catalog will be out very soon and should you care for one send your request to President Snyder and you will be furnished a copy as soon as they are ready for distribution.

FORESTRY.

(Continued from page 1.)

work of an ordinary surveyor. Topographic drawing is a valuable feature of the work as it enables the student to put upon paper a suitable map of his field determinations.

Every student candidate for a degree chooses a subject for special investigation on which a thesis is prepared and placed on file in the department.

The instruction is given by lectures, laboratory and field work, bulletins, reports, current literature, and text books.

An interesting and proper feature of the work is a trip that is taken by the combined junior and senior classes each alternate year. The trip covers nearly 500 miles, and visits are made to forestry plantations, furniture and other wood-working factories, alcohol plants, iron smelting works where charcoal is used, lumber and logging camps, pulp and paper mills, and other places of interest to foresters.

The graduates of this department have entered into forestry work before or soon after graduation. The opportunities for engagement in forestry pursuits seem to be on the increase. The field for private work is always open and some of the graduates have engaged in it. Others are employed by private parties or companies. The United States Forest Service may appoint such men as pass the examination.

Whether or not a man should study forestry depends upon the man. If he is sure he would like the work, and is willing to make the necessary preparation there are as good chances for success in this as in other similar occupations.

'04:

A. B. Rogers has accepted an appointment in the civil service at the Union Stock Yards, Chicago, where he entered upon his duties June 10. Mr. R. is enjoying his work.

M. A. C. WINS FIELD MEET, RELAY AND TENNIS

ALMA GETS BALL GAME

M. A. C., 67; OLIVET, 38; ALMA, 21; KAZOO, 6; HILLSDALE, 2; ALBION, 1.

One of the most successful field days ever held anywhere was pulled off at Albion on Friday and Saturday, June 7-8. About 75 M. A. C. people witnessed the sports and did their share of rooting for the winners. The events began on Friday, and on account of rain the track was in poor condition. The ball game between Albion and M. A. C. was started, but after three innings played in a pouring rain, it was postponed until Saturday morning when we lost 4 to 2.

In all other events M. A. C. took a lead, winning 8 out of a possible

inside the old record and Thomas breaking it by 16 seconds.

Although Albion was on her home ground and in excellent trim she has only one lone point to her credit and lost the much coveted baseball cup to Alma, whose coach was carried from the field by enthusiastic supporters.

Following is a list of events with winners:

100-yard dash—final heat: Won by McComb, Alma; second, Vaughn, M. A. C.; third, Griffin, M. A. C.; time 10 2-5.

120-yard hurdles—final heat:

inches, which was made in 1902.

Hammer throw—Won by Wheeler, M. A. C., distance, 112 feet, 9 1/4 inches; second, Morrison, Olivet; distance, 109 feet, 4 1/2 inches; third, Merrill, Albion, distance, 105 feet, 7 1/2 inches.

One-mile relay—Won by M. A. C.; second, Olivet; Third, Hillsdale. Time, 3:38 3/5. M. A. C. was represented by Griffin, Allen, Oviatt, and Bignell.

Tennis—Men's finals in singles—Taft, of M. A. C. won from Fall of Albion. Score, 6-8, 3-6, 6-2, 6-4, 6-4.



U. OF M. - M. A. C. BALL GAME

15 firsts, 7 seconds and 6 thirds. Of the four pennants offered we gathered in three—track, relay, and tennis. From the very first, the track was conceded to M. A. C., the size of margin being the only question. This is the first time in the history of the M. I. A. A., so far as we are able to learn, that M. A. C. has won the tennis, and Taft and Gould and the Misses Taft and Benham are to be congratulated for bringing to us the tennis pennant. It will look good in the library. The relay team won easily, this making the fifth successive year that M. A. C. has won this event.

M. A. C. carried away more medals than all other colleges combined and came within one point of tying on the number of points. As the table published will show we have the most evenly balanced team this year we have ever had. No one contestant won more than two medals and 14 men scored points. In the 15 events we scored either a first or a second in all save one—the high jump.

McComb of Alma did excellent work, winning 1st in the 100 yard and quarter, and second in the 220 yard. He secured 13 points, the greatest number scored by any one man. Records were broken in the mile, two mile and discuss and Burroughs broke our college record in the shot-put at 38-6.

Among the most interesting events were, the 120-yard hurdles in which Small won by inches in a desperate finish; in the half-mile Robison, of Olivet, won by a very small margin over Oviatt; and it seemed a toss-up in the two-mile, Thomas and Hunsberger, of Olivet, and Waite and Carr, M. A. C., all running well and in the last lap the lead changed at least four times. Thomas won out, Carr and Waite securing 2 and 3, all three running

Won by Small, M. A. C.; second, Hurlbut, Olivet; third, Hanson, M. A. C.; time 16 4-5.

Mile run—Won by Thomas, Olivet; second, Carr, M. A. C.; third, Waite, M. A. C.; time, 4:40 4-5. This breaks Thomas's old record of 4:41 2-5, which he made at M. A. C. last year.

Broad jump—Won by Small, M. A. C., 21 feet 1 1/2 in.; second, Hemmenway, Olivet, 20 feet; third, Ritze, Olivet, 19 feet 1 1/2 in.

Pole vault—Gongwer and Gilbert of M. A. C., tied for first at 10 feet; third, Holden, Kalamazoo.

Running high jump—Won by Winslow, Kalamazoo, 4 feet, 11 in.; second, Winters, Olivet; third, Hurlbut, Olivet.

220 yard hurdles—finals: Won by Pearsall, M. A. C.; second, Hurlbut, Olivet; third, Arnold, Olivet; time, 27 4-5.

880-yard run—Won by Robson, Olivet; second, Oviatt, M. A. C.; third, Bignell, M. A. C.; time, 2:08.

220-yard dash, final: Won by Griffin, M. A. C.; second, McComb, Alma; third, Vaughn, M. A. C.; time, 24 2-5.

Two mile run—won by Thomas, Olivet; second, Carr, M. A. C.; third, Waite, M. A. C.; time, 10:17 1-5. This breaks Thomas' own record of 10:33, which was made at last year's field meet.

44-yard dash—Won by McComb, Alma; second, Bignell, M. A. C.; third, Hemmenway, Olivet.

Shot-put—Won by Burroughs, M. A. C.; second, Helmer, Alma; third, Holt, Hillsdale; distance 38 feet 6 inches.

Discus throw—Won by McCullum, Alma; distance, 116 feet 9 inches; second, Burroughs, M. A. C., distance, 102 feet 4 1-2 inches; third, Winters, Olivet, distance, 98 feet 11 1-2 inches. This breaks Joe Maddock's record of 109 feet 7

AKERS IN THE BOX

Finals in ladies' singles—Miss Humble, of Olivet, won from Miss Taft, of M. A. C. Score, 6 2, 6-4.

Finals in men's doubles—Taft and Gould, of M. A. C., won from Walrath and Fenn, of Hillsdale. Score, 6-3, 6 1, 6-1.

Finals in ladies' doubles—Misses French and Goldsberry, of Hillsdale, won from Misses Fall and Hutchins, of Albion. Score, 6-3, 6-2.

BASEBALL.

M. A. C. 2—ALBION 4.

M. A. C. was defeated on Saturday morning in the first of the final baseball games. The day was ideal for the game and both teams played good ball. Akers pitched a fine game, allowing but five hits. Albion was fortunate in bunting her hits at critical times, a feat which has been lacking in all of our own games. Four errors were registered for M. A. C. while Albion made but one.

ALMA 7—ALBION 5.

The game on Saturday afternoon was one of the most exciting ever seen at a field meet. Albion secured seven hits in four innings and it looked easy for that college. Alma, however, began doing business in the fourth, when one run was made. Another was registered in the seventh and the score was tied in the eighth. During this inning Mr. Latham lost his nerve, the infield went to pieces and Alma took advantage of the situation. Some more hitting was done in the ninth, which settled the matter, for two more runs were registered and the game was won for Alma and the cup was lost by Albion. The crowd became enthusiastic over the result and a demonstration followed in which Coach Harper was picked up and carried from the field on the shoulders of his men.

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C. D. WOODBURY'S SHOE
HOLLISTER BLOCK

W. E. Piper '07 has accepted a position in the city engineer's office of Grand Rapids and began work Monday, June 17.

An error was made in the list of delegates published recently. The foreign delegate was from the university at Halle instead of from Holland.

Prof. and Mrs. Barrows are at Northampton for a short visit and on the 18th will witness the graduation of their daughter, Marguerite, from Smith College.

The King's Daughters will meet with Mrs. Blair, Thursday, June 20, at 2:30. All members are requested to be present as important business is to be transacted.

A. J. Eickhoff, a teacher in the School for the Deaf at Flint, was a college caller one day the past week. He is a brother of W. L. Eickhoff, with 1901, who died at Anderson in 1901 of typhoid fever, and was at that time a teacher in a business college.

Mr. Seamark who was injured at M. A. C. May 31, by a broken guy pole, is gaining and it is thought he will fully recover. Mr. Chas. Crill, a prominent merchant of Elsie, who, it was thought was injured very slightly at the same time, died from his injuries on June 11.

At the nonpartisan caucus held Saturday the following men were nominated as officers for the city of East Lansing: Prof. C. D. Smith Mayor; Prof. E. E. Bogue and Mr. Noah Snyder aldermen for one year; Mr. Chace Newman and Mr. Charles Aldrich aldermen for two years; Mr. George Martin, city clerk; Mr. L. F. Newell, city treasurer; Mr. E. R. Blair, supervisor; Mr. J. H. Cowley, Justice of the Peace.

The campus is now as beautiful as ever and the flowering shrubs, foliage and trees are admired by many visitors.

A most excellent bulletin on Plant Production by D. J. Crosby, '93, has just been received. The work is divided into 1, the plant; 2, its environment; 3, farm crops. There are 59 splendid illustrations, and the work certainly furnishes an excellent text on Elementary Agriculture.

Scholarships were offered by Olivet and Hillsdale to Lansing high school students having the highest average standing for the four years. Miss Lillian Shafer of the city won first with a standing of 94 while Miss Dorothy Brown, daughter of Secretary Brown, won second with 93½.

The Fruit Belt of Grand Rapids for May used three half-tone illustrations of forestry work. No information was given as to the origin of the photographs, but they were all made by the forestry department of M. A. C. Photographs from this department have appeared in a similar manner in other publications of late which go to show that "the press" is beginning to take notice of the great movement.

Our dairy students seem well taken care of for the summer as the following indicates: Harry Brown will have charge of a creamery at Hall, Mont., E. L. Grover and J. Cavanagh with condensed factory at Delavan, Wis., Floyd Hart will be in a creamery at Harbor Beach, H. H. Curtis will be with a creamery at Grindstone City, Mr. Ryder will work in a milk plant at Benton Harbor, Mr. Gilbert goes to Roodhouse, Ill., while E. C. Krehl will aid Mr. Foster at M. A. C.

EDUCATION FOR WOMEN.

Recent years have witnessed a very marked change in education for women. Heretofore that education has been almost entirely a book training; a study about things but not of things. Highly intelligent refined women were the products of such education. A feeling, however, has prevailed for some years that young women ought to receive training in subjects that pertain to the home with the result that today the ideal education of women may be said to consist of a combination of the two ideas—the old cultural training and the more recent practical training.

In response to this new conception of what constitutes the best education for women the Michigan Agricultural College has made ample provision for the training of young women in the way of a separate women's department. The state provides a commodious dormitory where the young women live under the direction of an experienced lady dean. Board is had in this same building in a club at a reasonable price determined by the actual cost of the food and its preparation. Every effort is made to render this life home-like and attractive for the young women. One of the valuable features of this student life is the maintenance of a very strong Young Women's Christian Association.

The courses of instruction pertain, especially to matters of home-making and keeping. A liberal amount of Modern Language, English, and History is included as a means of general culture, while the balance of the instruction is devoted to courses in Domestic Science and Domestic Art, together with those sciences such as chemistry, bacteriology, etc., whose subject matter pertains to the work in Domestic Science, thus affording a sound scientific foundation for such instruction.

Instruction in Domestic Science comprises thorough training in general cookery, the preparation of food for the sick together with instruction and experience in serving meals. For rendering all work of this nature practical, fully equipped laboratories are provided where the student has the opportunity not only to observe the demonstration work of the instructor but also to participate in the preparation of simple dishes under the instructor's supervision.

This work is conducted by teachers trained in the best scientific schools of the country, who, in a detailed account of the materials composing ordinary food, and the relative food value of these various ingredients according to the latest scientific knowledge. The cooking of vegetables and cereals, the preparation of meats, salads, puddings, in fact the preparation of all the necessities of the modern American table, receive due attention.

Not the least important is the course of lectures given upon household economy, which deals with subject-matter of vital concern to every home. Consideration is given to the matter of economical ingredients of foods together with economical methods in the preparation of food. The necessities and resources, not of the wealthy family, but of the moderately to do houses in which economy is of vital importance, are considered. In addition this course deals with the subject of marketing and the judicious purchase of supplies for the household. It may be of interest to state here that each senior entertains guests at a dinner prepared by herself, including the marketing, cooking and serving, the financial outlay for which must not exceed twenty-five cents per plate.

Another course of instruction is that given by a lady physician is that pertaining to emergencies and home nursing. The young women are taught what to do in case of accidents before the services of a physician can be secured, as well as the methods of caring for the sick in the home. Closely allied to these subjects is the matter of home sanitation. Detailed directions are given as to the establishment and maintenance of sanitary conditions in and about the home.

The Domestic Art department offers courses in all phases of needlework. Beginning with sewing in its simplest form, the pupil is given a course of training leading to the more difficult uses of the needle in home decoration and the preparation of wearing apparel. For illustration it may be stated that the junior women are required to have completed a dress, including the draughting, cutting, fitting and making of the same. Excellent opportunity is provided in the advanced work to do finer needlework

(Continued on page 4.)

TABLE SHOWING POINT WINNERS.

The following table shows the relative strength of the colleges in the M. I. A. A. this year, as well as the number of points won by each M. A. C. contestant. Ours is the most evenly balanced team ever presented and we have reason to feel proud of the showing made.

	M. A. C.	O.	ALM.	E.	H.	ALB.	Small,	10 points
100 yard....	4	0	5	0	0	0	Burroughs,	8 "
220 yard....	6	0	3	0	0	0	*Griffin,	7½ "
440 yard....	3	1	5	0	0	0	Carr,	6 "
880 yard....	4	5	0	0	0	0	Bignell,	5½ "
1 mile.....	4	5	0	0	0	0	Pearsall,	5 "
2 mile.....	4	5	0	0	0	0	*Wheeler,	5 "
120 H.....	6	3	0	0	0	0	*Oviatt,	4½ "
220 H.....	5	4	0	0	0	0	*Vaughn,	4 "
Shot.....	5	0	3	0	1	0	Gilbert,	4 "
Hammer....	5	3	0	0	0	1	Gongwer,	4 "
Disc.....	3	1	5	0	0	0	Wait,	2 "
R. H. Jump.	0	4	0	5	0	0	Allen,	1½ "
R. B. Jump.	5	4	0	0	0	0	*Hanson,	1 "
Pole Vault.	8	0	0	1	0	0		
Relay.....	5	3	0	0	1	0	*First Monograms	
Totals	67	38	21	6	2	1		

Eight firsts, seven seconds, six thirds.

EDUCATION FOR WOMEN.

(Continued from page 3.)

of various kinds, including the principles of art embroidery. In the senior year a course in millinery is given in which the practical details of the art are taught.

The college maintains, also, a well equipped woodworking room where manual training in wood is taught. Finally, an exceedingly attractive privilege offered to the women of the college is that of free instruction in instrumental music for the freshman and sophomore years to those who may desire such instruction. The only expense is a small fee for the use of the piano owned by the college. Further instructions may be had, if desired, by private lessons at reasonable rates. Good drill in vocal music may be had in the college chorus which meets weekly throughout the year, terminating the year by rendering some standard productions. The rendering of "Elijah" was one of the most enjoyable features of our recent semi-centennial program.

More detailed account of the work can not be given here. The reader is referred to our catalog which may be had upon application to President J. L. Snyder.

ENGINEERING.

There never was a greater demand for men trained along engineering lines than at present. This demand is increasing every year. This is the industrial age. Discoveries, inventions and new methods of doing work are making possible feats of engineering which have hitherto been impossible. These new lines of work call for trained men—men who have pursued thorough engineering courses in our technical institutions. Iron and cement are taking the place of brick and wood. Our streams are being harnessed and made to contribute power for the running of the manufacturing industries in our great cities. The kind of men needed to take charge of all these great enterprises are men who can think and who are also skillful with their hands. So that an engineering education, in order to fit one to participate in these onward movements, must be intensely practical. The engineering work at the Michigan Agricultural College calls for a great deal of mechanical training and a great deal of shop work. This College has always had a reputation of sending out men with practical training—men who could do things.

Entrance requirements for the four-year course are practically the same as those in force in all our large institutions. There is a five-year course in engineering for young men who have not had the advantages of full high school courses but who are of mature age and of earnest purpose. This gives an opportunity to a number of young men who other-

wise would not find it possible to complete a good engineering course.

All engineering students pursue the same course during the first two years. During the junior and senior years they are permitted to specialize in electrical, engineering and also in some lines of civil or mechanical engineering; or, they may take part of each course, thus securing practical training in both mechanical and electrical engineering work. An electrical engineer should know considerable about mechanical engineering, and the mechanical engineer should also have quite thorough training in electrical engineering. The civil engineer finds it very convenient also to know something about both mechanical and electrical engineering. By this combination this college is able to give to students practical training along those lines of work which will make them valuable men after leaving college.

Our graduates are sought for by the great industrial institutions of the country. They receive rapid advancement because they are trained along the lines which make them particularly helpful to their employers.

Beginning with the fall of 1907, the college will use the new Engineering building which has been put up at a cost of over one hundred thousand dollars. This building contains forty-three large laboratories and recitation rooms in addition to offices, store rooms, etc. It is one of the finest buildings in this country devoted to engineering work and will make the facilities for teaching electrical, mechanical and civil engineering first class in every particular. The former mechanical building will be used exclusively for shop work.

All the departments of engineering work are in charge of men thoroughly trained and also of practical experience. We have as teachers of engineering graduates of Cornell, Wisconsin University, Institute of Technology, Purdue University, The University of Michigan, University of Illinois, and other institutions of the very first rank.

The expenses at this institution are very much less than in any other institution of this country of similar rank.

'94.

Capt. R. S. Welch is now at Van Couver Barracks, Washington, having returned from the Philippines during the winter. He has been recently promoted to the Captaincy in the field artillery. A letter to Game and Fish Warden Chapman from Captain Welch expresses his satisfaction at this promotion and to his return to his mother country.

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