

# The M. A. C. Record.

VOL. 4.

LANSING, MICHIGAN, TUESDAY, AUGUST 8, 1899.

No. 41

## Prof. Woodworth Resigns.

P. B. Woodworth has resigned as professor of physics to accept the position of professor of Electrical Engineering at the Lewis Institute in Chicago. The work required at the Lewis Institute will be work for which Prof. Woodworth is well prepared. The department of electrical engineering is just being organized and upon Prof. Woodworth will fall the task of developing the department. He will also have charge of the work on the department of physics for a time. The position pays a salary of \$2,000, and in addition to his work in connection with the institute, Prof. Woodworth has the privilege of doing such outside work as his time will permit. In this way he will be kept more in touch with the practical side of electrical engineering than was possible here.

Prof. Woodworth graduated in the agricultural course from M. A. C. with the class of '86. After his graduation he was employed for eight months as a civil engineer, when he received an appointment as an assistant in chemistry to Dr. Kedzie. During the winter of '87-'88 he began graduate work in Cornell, entering for the degree of Mechanical Engineer in electrical engineering. He completed his course at Cornell in '90. Meanwhile he had continued his work as instructor at the M. A. C. and in '89 was given the position of assistant professor of physics with full charge of the department. In 1891-2 he spent several months in Europe, during which time he studied under Profs. Helmholtz and Kundt in Berlin.

Prof. Woodworth is very popular among the students and upon the faculty and all will regret that he is to leave his present position. Mrs. Woodworth also has a host of friends at the college who will regret their departure.

## M. A. C. to Have a Railroad.

The Detroit, Grand Rapids & Western Railroad Co. has begun the construction of a track extending from Trowbridge to the boiler house at the College, a distance of one and three-quarters miles. From Trowbridge the line runs parallel to the Grand Trunk until it enters the College farm: there it follows the west line of the farm to the river, which it crosses south of the

greenhouses. The work is already well under way; grading has been done as far as the College farm; and a large force of men and teams are at work daily. During the week of excursions to the College the company hopes to be able to run its excursion trains onto the College grounds. The construction of this road will be of great value to the College, as it will lessen the hauling distance, of all coal used by the college and other freight, at least one mile.

## Farm Notes.

The wheat threshing on the College farm is completed, yields ranging between sixteen and thirty-two bushels per acre. The leading varieties this year are the following: Gold Coin, Dawson's Golden Chaff,

the Department this summer: Dr. A. C. True, Director of the Office of Experiment Station, Washington, D. C.; Prof. R. H. Forbes, of Arizona; Prof. S. H. Maynard, of Amherst, Massachusetts; Prof. B. L. Hartwell, Kingston, R. I.; Dr. John A. Myers, New York City; B. VonHerff, New York City; Anton G. Veith, Milwaukee, and Prof. M. B. Waite, Department of Agriculture, Washington, D. C.

That the Farm Department has a reputation for the production of good stock is shown by the fact that twenty-three inquiries for Shorthorn bull calves have been received within the last ten days.

An effort will be made to have all live stock for sale on the College farm in the barns during the special excursions to the College so that in-

Professor of Agriculture. Mr. Jeffrey at present holds a similar position in the University of Wisconsin, from which he graduated several years ago. He has had very successful experience as a teacher and if he accepts the position tendered him, another good, practical man will be added to the teaching force of the College.

Miss Carrie L. Holt, Instructor in Drawing, was given leave of absence for one year to continue her studies in the Boston art school. Her place will be filled by Miss Elizabeth Sprague of Still River, Mass.

## Marriages.

Married, Wednesday, June 21, at the residence of the bride's parents, Alaiedon, Miss Grace Aldrich Melton with '01 to Mr. Burt Leland Green. At home after August 1 at 204 E. Dunbar St., Alpena, Mich.

On the 28th of June Hon. Lucius Whitney Watkins '93, member of the State Board of Agriculture, was united in marriage to Miss Grace Edith Allen, of Dexter, Mich. The young people will be at home after July 31, at Fairview farm, Watkins, Mich.

Mr. Luther H. Baker '93, was married, June 28, to Miss Una V. Jacobs, of Galesburg, Mich. Mr.

and Mrs. Baker are spending the summer at M. A. C.

Prof. Edgar A. Burnett '87 and Miss Nellie Folsom were married at Brookings, South Dakota, Wednesday morning, June 21, at the home of Hon. Geo. A. Matthews, cousin of the bride. Mr. Burnett has occupied the chair of animal husbandry and dairy science in the South Dakota Agricultural College for a number of years, and his bride was also connected with the same institution for several years as professor of English. Prof. Burnett has recently been elected to the position of Prof. of Animal Industry at the Nebraska University at a salary of \$2,000.

Joseph B. Cotton '86, of Duluth, Minn., was recently married to Miss Hubbell.

Prof. J. D. Towar and Mr. M. L. Dean have begun the construction of residences on the Miles property. Prof. Towar is building north-west of the hospital, and Mr. Dean near the Delta and east of the Backus cottage.



M. A. C. TRACK TEAM '99

International No. 6, Russian, White Clawson, Jones's Square Head, and Fulcaster. The quality of the wheat this year is somewhat below the average, owing, undoubtedly, to the action of the rust, which attacked nearly all varieties alike. An experiment in early and late plowing of oat stubble for wheat showed an increase in yield in favor of early plowing of 4.65 bushels per acre. Harrowing oat stubble with a spring tooth harrow immediately after the oats were harvested and allowing the ground to lie unplowed until about the time of sowing wheat gave a yield nearly equal to that on early plowed land. An experiment in top dressing with manure and plowing under showed but a slight advantage (.7 bushels per acre) in favor of plowing under.

The Experiment Station is growing about 8 acres of sugar beets this year, all of which are looking exceptionally fine. The sand lucerne (meidcago media) has been mowed three times this year, giving a total yield so far per acre of 8,590 lbs.

The following are among the many visitors who have called at

interested parties may have an opportunity to look them over. We hope also to be able to show some fine samples of seed wheat which can be sold in small quantities.

Not an inconsiderable income from the Grade Dairy Herd, during the past few months, has been the sale of veal calves. Prices received for same ranging all the way from 5¼ to 5¾ cents per pound. A ninety-four days old calf, weighing 210 pounds, was sold at \$5.50 per cwt.

## Board Minutes.

At the meeting of the Board held Aug. 4, Mr. Chas. O. Bemies was elected Prof. of Physical Culture. This is a new department and its advent will be hailed with delight by the student body. Mr. Bemies is a thoroughly trained man and will bring to this new department knowledge and experience which precludes any doubt of failure. He is an ardent foot ball man and it is expected that he will be on hand at the opening of the fall term.

At the same meeting, Prof. Jos. A. Jeffrey was elected Assistant

# THE M. A. C. RECORD.

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MICHIGAN AGRICULTURAL COLLEGE.

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For various reasons THE M. A. C. RECORD is occasionally sent to those who have not subscribed for the paper. Such persons need have no hesitation about taking the paper from the postoffice, for no charge will be made for it. The only way, however, to secure THE RECORD regularly is to subscribe.

## To Prospective Students.

One of the serious questions which so often confronts young people is, "Will an education pay?" The question might just as properly be asked, "will it pay to learn a trade?" "will it pay to study a profession or to enter one of many business pursuits?" The answer to all these questions is the same. Any calling or pursuit in life, if it be an honest and honorable one, will pay, if you have the energy and ability to succeed at that calling. If you ever succeed in anything your success will be the result of your own perseverance. Brains count for something, of course, but hard work counts for everything.

The best part of an education is the ability it gives the recipient to work; to concentrate his mind on a subject, although it be dry and uninteresting, until the subject is mastered. This is the test of an educated mind. Without the ability to do this the mind is not trained; the education is scarcely begun. A knowledge of all the branches taught in a high school and college does not constitute an education.

If this is true, "how can I hope to succeed?" The answer is, "just as you would expect to succeed in any other undertaking—by patient systematic hard work." If you were to walk to California you would go about it with some method. You would not expect to while away your time for two or three days and then run a whole day to make up for lost time. You would find that by giving up two or three evenings each week to social pleasure, your journey would be a very long one, if indeed you ever reached your destination. If you should start on a long journey in this way, you would soon become foot-sore, tired and discouraged, and you would sit down by the way-side and ask yourself, "what is the use of my taking this long journey?" "Other people have gotten along well in life and have never been out of the county in which they were born. I don't think it will pay—the journey is too long, I will not go." Some young people view an education in the same way. Four years seems a very long time to them. They do not have the courage to make the start and often decide to take a business course for three months, learn stenography, get a position in a store, etc.

"Does an education pay?" Yes, if you have it in you to make it pay. What course shall I take, what branches shall I study?" It does not matter very much *what* you study, but it does matter very much *how* you study. My own opinion is that the most promising field is that of science as applied to the every day affairs of life—the home, the farm and the mechanical pursuits. There is and will continue to be a demand for people thoroughly trained along these lines. Education should conform to the spirit and progress of the times.

Don't become faint-hearted. Don't try to look too far ahead. You cannot expect to see four years ahead with any very great degree of certainty. You must have faith and confidence in self. Do your best and you can safely trust the future. If you do not have money remember that you are in good company. Half our great men worked their way through college. You can do the same. Go in to win. Let me close with a quotation from Fisk's Psychology. Read it over five times. "Let no youth have any anxiety about the upshot of his education, whatever the line of it may be. If he keep faithfully busy each hour of the working day, he may safely leave the final result to itself. He can with perfect certainty count on waking up some fine morning to find himself one of the competent ones of his generation, in whatever pursuit he may have singled out. Silently, between all the details of his business, the power of judging in all that class of matter will have built itself up within him as a possession that will never pass away. Young people should know this truth in advance. The ignorance of it has probably engendered more discouragement and faint-heartedness in youths embarking on arduous careers than all other causes put together." PRES. J. L. SNYDER.

## Pebbles from the Pacific Beach.

BY DR. R. C. KEDZIE.

The RECORD asks for a column article to tell the M. A. C. people what I saw in California. An Englishman who was greatly impressed with the grandeur of Niagara Falls, decided to show his friends at home "just how Niagara Falls looked." He carried home a vial of the water, and gathering his friends to enjoy the sight, told them "I am going to show you Niagara Falls, for here is a vial of the water which I will pour out before you, and if you will multiply this water fall by billions upon billions, you will see Niagara Falls!" To attempt to condense into a column article of the RECORD what I saw in Sunsetland, would be to follow the example of the Briton. However, I will pick up a pebble or two from the ocean beach.

THE UNIVERSITY OF CALIFORNIA.

We visited Berkley, the seat of the *State University of the Pacific Slope*. Prof. Hilgard, the master spirit of the University, was sick and could not be seen, but Prof. Jaffa, the leader and guiding hand in dispensing the princely hospitality of California, was on hand at all times and places and unwearied in his efforts for our comfort and showing us the wonder-capabilities of his state. When one realizes that he was the dispenser of the liberality of the citizens of California by which we were carried 1,500 miles in Pull-

man cars to see the capacities of the state for agricultural production of every kind, and this without the cost of a single dollar to any delegate, the bountifulness of the generosity of this noble people begins to dawn upon the mind.

There are many good buildings in the State University, but they are put down without any logical connection as to their uses or as features in the landscape. They seem to have been built, one at a time, and dumped down just where it happened.

The widow of Senator Hearst has given \$2,000,000 to put up new buildings for the State University, and the architect is to have a free hand not only in planning but in locating the new buildings, and it was understood that some of the best of the buildings now on the grounds would be torn down. The campus will not compare for beauty with that of M. A. C.

Miss Flood has given to the University her palatial home and magnificent grounds at Palo Alto, with the provision that they must never be sold or alienated. It is estimated that it will cost \$20,000 a year to keep up the grounds and home. The grounds are very beautiful but I seemed to see a white elephant in the back ground!

The friends of the University were excited over the question whether Prof. Wheeler of Cornell, would accept the presidency with autocratic power, and the Board relinquish to him the full power of appointing and removing members of the faculty, regulating salaries, etc., becoming the one power, the same as President Jordan in Leland Stanford, Jr. University.

PALO ALTO.

The R. R. station and village which holds the Stanford University are named Palo Alto, (Tall Tree), from a magnificent red wood tree (175 feet high) standing near the station. Senator Stanford, by a suit in court, secured the monopoly of Palo Alto as the name for his University town.

This university is the (financially) mighty rival of the universities of America. It is an institution of great interest from its unique history and its possibilities in the future. It was a matter of regret that the time for our call there both for lunch and for seeing the place was less than an hour. Any conclusions reached must be taken with allowance for so very brief opportunity for inspection.

With vast estates surrounding and supporting it, and with an endowment of some \$20,000,000, what are its limits in the future? Other universities have been the product of growth and gradual development; but here, like Minerva leaping from the head of Jupiter when smitten by the hammer of Vulcan—"adult and full-armed."—we see a university leap forth by plutocratic forces, without hereditary ties or traditions. Will money create a university, or is growth a necessary element of permanence in the social order? The university has followed in part the custom of English universities by having the buildings enclosed by walls the quadrangle containing the home for Deans, Proctors and students alike, but from the Stanford quadrangle the faculty are excluded, taking the living heart out of the English quadrangle.

As our train approached Palo Alto a troop of bright girl students

with buttonieres and badges of the university colors boarded our car and gave their pleasant attentions to the delegates. A bright young woman approached me. "Are you a delegate?" "Yes, from Michigan." "Well, I am a graduate from Kansas, and I have heard Mrs. Nellie Kedzie tell so much about her father, Dr. Kedzie, that I should like to see him." "I am Dr. Kedzie!" Tableau!

THE SUGAR FACTORY AT SALINAS.

The beet sugar question had great interest for us, and a side trip was made to the great factory at Salinas. Our train was stopped some distance from the factory by freight cars, and Prof. Smith and myself walked forward to the factory to get as much time as possible in inspecting it. At the door of the factory we met a group of men whom we greeted, when a stout and jolly Dutchman asked, "Vat you want to see? Eh?" "We want to see the biggest sugar factory in the world and the big guns that run it." "Vell, I am one of the guns. My name is Claus Spreckels," and the great sugar king took us in hand and showed us through the entire works, explaining all their good parts and pointing out the vast proportion of the plant. Think of a battery of 24 huge boilers to furnish steam alone, and a factory capable of working up 4,000 tons of beets a day. The factory cost \$2,500,000, and the company has 37,000 acres of sugar beets growing, and will fall back on the rural districts when these are used up.

Standing in the group with Spreckels was Andrews, the Cattle King of the plains, who was contracting with Spreckels for the beet pulp to fatten immense herds of cattle before putting on the market next winter.

When one considers the immense sums of money employed by these two men in their business, he begins to realize the capital necessary to run such lines of business in California, and that no man with only a few thousands of ready money need apply by way of competition. Yet Claus Spreckels told me that he came to California with only \$1.25 in his pocket to start in the struggle for wealth and power.

## At the College.

C. E. Hoyt visited friends at the College, July 22-26.

Born, to Mr. and Mrs. Fred C. Kinney, July 29, a boy.

Cecil J. Barnum '94, visited at the College, Thursday, July 6.

Prof. Vedder and family are at Groton, N. Y., visiting friends.

Mrs. Landon is spending her vacation at her old home in Niles.

Miss Fleta Paddock recently spent ten days visiting friends near Lawton.

D. J. Crosby is spending his summer vacation in the summer school at Ann Arbor.

Walter D. Groesbeck '92, and wife, of Washington, D. C., were at the College, July 20th.

F. P. Clark '93, who is now practicing law at Converse, Indiana, called at the College, July 31.

A. Thorne Swift spent the first two weeks of July at the College, doing special work in physics.

Burton O. Longyear and family are spending a couple of weeks at Leslie, Mr. Longyear's former home.

W. W. Morrison '90, sends his return blank for the Alumni catalogue, from Geneva, Switzerland, where he is touring.

Prof. and Mrs. Hedrick are spending the summer in Chicago. Prof. Hedrick is taking work in the Chicago University.

P. M. Lyman was at Detroit during the Y. M. C. A. convention. Later he spent two weeks at his home near Bancroft.

R. H. Smith '95, called on friends at the College, July 22. He is spending the summer on his father's farm at Addison, Mich.

Prof. Warren Babcock is doing advanced work in mathematics at Ann Arbor. Mrs. Babcock and the baby are spending the summer at Milan.

Miss Lillian Wheeler left Monday, July 16, for Washington, where she has a position on the botanical division of the department of agriculture.

F. V. Warren left for his home at Marlette, July 21. He will remain at Marlette until about September 1, when he expects to go to Fargo, N. D.

Miss Tressie Bristol spent a month of the vacation working on the chemical department at the College. She returned to her home at Almont, July 21.

Amos E. Mood of Sandy Creek, New York, a student here in '75, called at the College, Aug. 2. He was much surprised and gratified at the many improvements.

Mr. G. H. True spent two weeks visiting friends in Wisconsin, one week at the University of Wisconsin, and one week at his home. He returned to M. A. C. July 4.

Dr. Rollin H. Stevens of Detroit, visited the College on July 31, to gain what information he could regarding mushrooms and toadstools. He is one of the organizers of a mycological club in the city.

Miss Amy Vaughn '97, visited at M. A. C. a few days early in July. Miss Vaughn is spending her summer vacation at her home in Ionia. She will return to Chicago the first of September, as domestic science teacher in the public schools.

C. P. Gillette '84, professor of entomology at the Colorado Agricultural College, called at the College, July 24. Mr. Gillette reports that the Colorado Agricultural College has more than doubled in attendance during the past three years.

T. L. Hankinson '98, called at the College July 19. Mr. Hankinson spent last year at Cornell in the study of zoology, and intends to return next fall. He wheeled through from Ithaca, N. Y. to Hillsdale, a distance of 516 miles, in eight days.

Miss Emma J. Cole, instructor in botany at the Grand Rapids high school, has been spending some time at M. A. C., to take advantage of the herbarium, library, and aid of Prof. Wheeler in perfecting a catalogue of plants growing in Grand Rapids and vicinity.

Dr. Barrows and Prof. Pettit, with their families, have been spending a few days on Hickory

Island at Pine Lake. Prof. and Mrs. Westcott and Mrs. Westcott's sisters, Misses Josephine, Nellie and Mary Greening are also taking a two weeks' outing at the lake.

Luke C. Colburn '88, now living at Paw Paw, called at the College July 22. He is full of business, having recently made plans for the water works at Bangor, and two short railroads in that vicinity. He was on his way to look over Durand with reference to water works in that city.

Thursday evening, July 13, about sixty persons, principally students who are at the College for the summer, assembled at the library upon invitation from Mrs. Landon. Various games were indulged in, after which light refreshments were served. The evening was very enjoyably spent.

Last Friday evening, Mrs. E. M. Kedzie very delightfully entertained in honor of Prof. and Mrs. Woodworth. About 40 guests were present, and all enjoyed a very pleasant evening. Saturday, Prof. and Mrs. Woodworth left for Caseville where they will visit for a few days before starting for Chicago.

Vinton V. Newell visited at the College, July 5-11. He but shortly before arrived from Manavo, Brazil, a town about 1,000 miles up the Amazon, where he superintended the erection of a power station for the Manavo R. R. Co. Mr. Newell is at present at Holyoke, Mass., with the Dean Steam Pump Co., as erecting engineer.

#### The American Park and Outdoor Art Association Meeting.

During the last week of June, the American Park and Outdoor Art Association held meeting for three days in Detroit. The society is still young, containing members scattered from Boston to Minneapolis and New Orleans. There were twelve papers or lectures set down for the program besides much discussion and committee work. One-third of these papers were by M. A. C. men, viz.: Outdoor Art in School and College Grounds by Dr. Beal; Interesting Children in Our Highways and Public Grounds by W. W. Tracy '67, of Detroit; Finger Boards and View Points by C. W. Garfield '70, of Grand Rapids; The Parks and the People by R. J. Coryell '84, Superintendent of Parks in Detroit. Professor Taft and L. R. Love '96, were present. The citizens of Detroit extended many courtesies, including reports by the papers. Here are two extracts from *The Free Press*: "Any person who expected to see at the convention of the American Park and Outdoor Art association, a lot of farmers in blue denims and hickory shirts, was disappointed by the appearance of that body as it assembled at the Hotel Cadillac yesterday morning. It was a representative gathering of American citizens of education, culture and refinement—an awful example of the results of progressive educational methods in this country; of special study in special directions and of professional excellences and pride on the part of men who have mastered the details and demonstrated the values of modern scientific methods in handling soils, flowers, shrubbery, trees and other features of landscape gardening and architecture."

"There has been as yet, among all the national conventions held in Detroit this season, no gathering in which has been manifested plainly and beyond question a spirit single and enthusiastic in the interests of the general welfare, equal to that which is shown by the American Park and Outdoor Art Association." —W. J. B.

#### An Opportunity for M. A. C. Graduates.

Pres't J. L. Snyder, Ph. D., Agricultural College, Mich.  
Dear Sir:—Bishop Joseph C. Hartzell, who is at the head of the missionary work of the Methodist Episcopal church in Africa, takes a very advanced and as it seems to me, rational position regarding the best means for evangelization in that country. He insists that the material interests of the natives among whom he is working demands most careful attention and to that end is organizing efforts toward instruction of the people in the rudiments of agriculture and the mechanic and domestic arts. He expects before long to be in want of a capable and earnest man, or perhaps more than one, to take charge of stations for developing agricultural industries. A member of the Methodist church would of course be preferred.

I do not think I need enlarge upon the possibilities of usefulness of such an enterprise, especially in the hands of so large minded and able a man as Bishop Hartzell and under the auspices of a religious organization so powerful as that which he represents. Could you suggest the name of a fit person, perhaps from the list of your graduates.

Very sincerely yours,  
W. O. ATWATER.

Middletown, Conn., July 5, '99

#### Washington Alumni Entertains Prof. Cook.

The *Washington Post* of July 27, had the following to say regarding the entertainment given Prof. Cook recently by the Washington Alumni Association.

"Prof. A. J. Cook, one of the earliest graduates of the Michigan State Agricultural College, and for twenty-five years teacher of zoology and entomology of that institution is visiting his daughter, Mrs. Lyman J. Briggs, 56 S street northwest. Mrs. Briggs is also a graduate of the same college, having taken her degree with the class of '93. For the past five years Prof. Cook has been connected with Pomona College, Claremont, California. He is widely known at home and abroad as an author on topics connected with economic entomology and agriculture. On Thursday, Prof. Cook leaves for a visit to several Eastern cities and will attend the forthcoming session in Columbus of the American Association For the Advancement of Science, of which he is a member.

The Washington Association of Alumni of the Michigan Agricultural College gathered Tuesday evening at the residence of Mr. Frank Benton, 1801 Harewood avenue, Le Droit Park, to do honor to their old instructor and fellow-alumnus. Some thirty alumni of this institution are located in Washington, being for the greater number connected with the scientific work of various government departments. There were present on this occasion, besides the guest of the evening, Prof. A. J. Cook, of the class of '62; Messrs.

James H. Tibbits, class of '73; Frank Benton, '79; William A. Taylor, '88; Lyster H. Dewey, '88; Joseph Freeman, '90; Lyman J. Briggs, '93; Miss Lillian Wheeler, '93; Mr. H. W. Lawson, '95; Mr. George E. Rosen, '81; Mrs. Frank Benton, '82; Dr. Erwin F. Smith, '86; Mrs. William A. Taylor, Mrs. Lyster H. Dewey, Mrs. George E. Rosen, Mrs. Erwin F. Smith and Mrs. C. M. Fisher.

#### Prof. J. W. Toumey Advances.

James W. Toumey, '89 was instructor in botany for two years and then went to Tucson, Arizona, a territory of about 50,000 persons, half of whom were Indians. Toumey became assistant Professor of the Agricultural College in that hot desert country noted especially for cacti. In this isolated spot, he went to work, searching out the plants including the woody growth of territory. He collected a cactus garden and made discoveries in these as well as in trees. A nice new oak was named for him. Was he as good as banished in this isolated region? Could any one know about it, should he work hard and make discoveries? His salary was raised twice; with his other duties he became director of the experiment station.

Some months ago he had engaged to spend nine months of the year in the service of the Forest Division of the U. S. Department of Agriculture, as expert in the tree planting, especially for arid regions, going back to teach for the other three months. From our knowledge of the man, we predict that the department will demand all of his service inside of two years. In *The Forester* for July, the leading article is by Mr. Toumey on "The Gradual Restoration of Tree Growths on Denuded Lands." W. J. B.

#### The M. A. C. Band Praised.

The following regarding the band convention held at Belding early in June was clipped from the Belding Star: "The eleventh semi-annual convention of the Central Michigan Band association, which was held in the sleek little city of Belding yesterday, goes into history as among the eminently successful events in the history of that organization. While the number of bands in attendance perhaps was not as large as at some of the previous meetings, those that were here were made up of musicians of more than ordinary ability, and the selections rendered were exceptionally fine. The following is a list of the organizations that took part in the convention: North Eaton band, Big Rapids German band, M. A. C. Military band, Grandville Cornet band, Lake Odessa Cornet band, Sunfield Cornet band, Portland City band, Fowler band, Lyons Military band, Ionia City band, Stanton Cornet band, Saranac drum corps, Smyrna Cornet band and the Belding Shoe Factory band.

"The Star but echoes the sentiment of all who gave the matter any thought in making special mention of the M. A. C. band. This band is composed entirely of students at the agricultural college, and their gentlemanly conduct and dignified deportment was a subject of comment on every hand. The boys won golden opinions both for themselves and the institution which they represent."

Grand Excursions to M. A. C.

A FINE OPPORTUNITY TO MAKE A VISIT TO THE AGRICULTURAL COLLEGE AT SLIGHT EXPENSE.

During the week of August 14, 15, 16, 17, 18 and 19 various railroads will run excursions directly to the Michigan Agricultural College.

The electric street car line runs from all the railroad stations in Lansing right into the College grounds.

All excursion trains will be run directly to the college grounds.

If you come, bring your lunch and eat it under the splendid shade trees that adorn the College campus.

We publish, in full, below, the time tables of the excursion trains and the rates.

TO YOUNG MEN AND WOMEN.

If you are thinking of entering the College, and have not yet quite decided, do not fail to come on one of these excursions.

Tuesday, August 15, 1899.

Table with 2 columns: Time Table and Round trip rate. Includes routes like Big Rapids, Rodney, Mecosta, Remus, Millbrook, Blanchard, Wyman, Edmore, McBrides, Stanton, Sheridan, Fenwick, Shiloh, Stanton Junction, Ionia, Lyons, Collins, Portland, Eagle, Grand Ledge.

ANOTHER TRAIN.

Table with 2 columns: Time Table and Round trip rate. Includes routes like Howard City, Coral, Trufant, Gowen, North Greenville, Greenville, Belding, Chadwick, Orleans, Ionia.

Wednesday, August 16, 1899.

MICHIGAN CENTRAL RAILROAD.

Table with 2 columns: Air Line Division and Round trip rate. Includes routes like Three Rivers, Centreville, Wasepi, Colon, Sherwood, Union City, Burlington, Tekonsha, Clarendon, Concord, Spring Arbor, Snyders, Arrive-Lansing.

Table with 2 columns: South Haven and Saginaw Divisions and Round trip rate. Includes routes like South Haven, Kibbies, Lacota, Grand Junction, Berlamont, Bloomingdale, Gobles, Pine Grove, Kendall, Williams, Alamo, Kalamazoo, Comstock, Galesburg, Augusta, Ceresco, Marshall, Marengo, Parma, Trumbull, Jackson, Rives Junction, Leslie, Eden, Mason, Holt, Arrive-Lansing.

MICHIGAN CENTRAL.

Table with 2 columns: Grand Rapids Division and Round trip rate. Includes routes like Caledonia, Middleville, Irving, Hastings, Morgan, Nashville, Vermontville, Chester, Onondaga, Rives Junction, Arrive-Lansing.

Table with 2 columns: Ann Arbor & Michigan Central R. R. and Round trip rate. Includes routes like Cadillac, Lucas, McBain, Park Lake, Marion, Pennocks, Temple, Clarence, Lake George, Farwell, Clare, Burnham, Rosebush, Mt. Pleasant, Shepherd, Forest Hill, Alma, Ithaca, North Star, Ashley, Bannister, Elsie, Carland, Owosso Junction, Arrive-Lansing, Saginaw Division.

Table with 2 columns: Time Table and Round trip rate. Includes routes like Richville, Saginaw, Court St., Paines, Swan Creek, Garfield, St. Charles, Fergus, Chesaning, Oakleys, Henderson, Owosso, Owosso Junction, Bennington, Laingsburg, Bath, Arrive Lansing.

Thursday, August 17, 1899.

Table with 2 columns: Time Table and Round trip rates. Includes routes like Pentwater, Hart, Mears, Shelby, New Era, Rothbury, Montague, Whitehall, Big Rapids Junction, Muskegon, Muskegon via G.R. & I., Grand Rapids, Grand Rapids Arrive, Arrive-Lansing.

CHICAGO AND WEST MICHIGAN AND DETROIT, GRAND RAPIDS & WESTERN.

Table with 2 columns: Time table and Round trip rates. Includes routes like St. Joseph, Benton Harbor, Riverside, Coloma, Watervliet, Hartford, McDonald, Bangor, Breedsville, Grand Junction, Lee, Bravo, Pearle, Fennville, New Richmond, East Saugatuck, Holland, Muskegon, Muskegon H'ts, Lake Harbor, Ferrysburg, Grand Haven, Agnew, West Olive, Waverly, Zeeland, Vriesland, Hudsonville, Jenison, Grandville, Grand Rapids Ar., Grand Rapids.

DETROIT, GRAND RAPIDS & WESTERN RAILROAD.

Table with 2 columns: Time table and Round trip rate. Includes routes like Grand Rapids, East Paris, McCords, Alto, Elmdale, Clarksville, Lake Odessa, Woodbury, Sunfield, Mulliken, Grand Ledge, Arrive-Lansing.

main line trains will leave Port Huron and Battle Creek at 6:30 a. m. On the D. & M. division trains will leave Pontiac at 8:02 a. m. and St. Johns at 8:20 a. m.;

Saturday, August 19.

Table with 2 columns: Time Table and Round trip rate. Includes routes like Detroit, Delray, Oak, Beech, Elm, Stark, Plymouth, Salem, South Lyon, Island Lake, Brighton, Howell Junction, Howell, Fowlerville, Webberville, Williamston, Meridian, Okemos, Arrive-Lansing.

News From Graduates and Former Students.

A. Thorne Swift '99, has been elected science teacher of the Lansing high school.

A. C. Cole with '96, teacher in the Cripple Creek, Colorado, high school, is taking science work at the U. of M.

Howard J. Hall '90, professor of English in Arizona Agricultural College, is spending the summer at the U. of M.

Joseph H. Freeman '90m, received the degree Master of Laws from Georgetown University, Washington, D. C., last June.

V. J. Willey '93, has entered for a Master of Science degree at the U. of M., at present taking work in the summer school at that place.

Clarence Holmes '93, was recently elected superintendent of the Lansing schools, to fill the vacancy caused by the resignation of Supt. Laird.

Miss Florence Abbott with '97 graduated this year from the literary department of the University of Michigan and will teach next year at Escanaba.

C. H. Briggs '96, is now engaged in chemical research work for Parke, Davis & Co. of Detroit. H. E. Ward '95 and H. A. Burnett with '01 are also at work for Parke, Davis & Co.

Bert W. Peet '92, has been elected assistant in chemistry and physics at the Michigan Normal College. Mr. Peet spent a couple of weeks in July at the College doing special work in physics and chemistry.

Waldo E. Rohnert '89, Gilroy, California, has been out of college but ten years, and already he is growing seeds for the wholesale market on a large scale.