

# The Eagle.

*Agricultural College, Michigan.*

*Vol. IV,*

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*No. 21.*

## COLLEGE AND STUDENT NEWS.

Oscar C. Clute goes to Chicago today to visit the Fair.

The Co-eds and a few of their selects spent the 3rd at Pine Lake.

Pres. Clute and Prof. Taft were in South Haven last week on experiment station work.

At 8:30 on Sunday morning, President Clute will speak on, "The Rational Foundations of Theism." All are invited.

Several of our most valued professors have received tempting offers to go elsewhere. We sincerely hope we may not lose them.

The July meeting of the State Board of Agriculture occurs on the 10th. We hold our breath to learn who the new president is to be.

Mr. A. L. Westcott B. M. E., of Purdue University, has come here to take the position left vacant by the resignation of Mr. Goodenough.

Wednesday evening the Faculty paid off their base ball score of last vacation by filling the winners with the best ice cream that "Bob" ever set up.

President McLouth of the South Dakota Agricultural College, was in Lansing last week. He is a candidate for the principal's chair of State Normal School.

The Summer School for teachers is rapidly filling up. Already eleven have entered in the Chemical Laboratory and more are coming.

Mr. Luguya Hori and Mr. Onosuke Hori, graduates of the Sappori Agricultural College, Japan, have recently entered our Agricultural course.

Paul Woodworth, 3 years with '90, spent the first of the week on the grounds. He graduated at the University June 29th, receiving the degree of B. L., and has been admitted to the bar, and will locate in Detroit.

Prof. Chas. McKenny, of Olivet College, will preach in the chapel Sunday afternoon. Prof. McKenny is a graduate of our college of the class of '81, and has many friends here who will be glad to see him and hear him preach.

Mr. Wahey Matura, a graduate of the Maiji Yakum, Tomioko, Japan, has entered College. He will take special work the remainder of this term, and enter the Junior Mechanical Class in the fall.

The Annual Fertilizer analysis made by the Chemical Department is progressing rapidly. The work of collecting the samples began June 5th and the report will be ready for the printers about July 12. This work brings into the College Treasury about \$1200.00 a year. Not bad for five weeks work.

### College Boys Take The Medals.

College boys made a good showing in the athletic contests at the driving club park on the Fourth. Clark won the 220 yard dash in  $24\frac{3}{4}$  seconds. Petley was winner in the half-mile run, time  $2:12\frac{3}{4}$ . Poss took the running broad jump, 20 feet, standing broad jump, 9 feet 6 inches, and the running hop, step and jump, 41 feet 11 inches. Mulheron won the running high jump, 5 feet 3 inches, and Bernart the 220 yard hurdle race in  $14\frac{1}{4}$  seconds. The 100 yard dash was won by Gail Chapman of the University in  $10\frac{1}{4}$  seconds, and Evans of the state treasurer's office captured the bicycle races.

### Entomological Dep't Bulletins.

Bulletin 94, "Birds of Michigan," is in great demand, and is receiving much favorable comment. The word from the Dep't of Agriculture is, "one of the neatest and most valuable bulletins sent out by any station." L. S. Foster, editor of the *Auk* says, "a credit to Michigan and the College". Prof. S. M. Tracy of the Mississippi College and Station, says, "The most valuable bulletin issued by the Michigan Station." Bulletin 96, "Honey Analysis," is just out. It is the last bulletin that will be issued by Prof. Cook before he takes his leave. It settles many doubtful points and indicates further matters needing investigation. Because of a general belief among beekeepers that the chemists could not tell adulterated from genuine honey, Prof. Cook secured over 50 samples from known sources, and sent them by number, unnamed, to three of our most able chemists, Dr. R. C. Kedzie of this College, Prof. H. W. Wiley of Washington, Government Chemist, and Prof. M. A. Scovell, of the Kentucky Experiment Station. The results are of exceeding interest.

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## ADVERTISING RATES

MADE KNOWN ON APPLICATION.

*Entered at the post-office at Agricultural College, Mich., as second class matter.*

**A Blue Mark Means That Your Subscription Has Expired. PLEASE RENEW!**

It is proposed to set apart a day during the coming vacation, when all College people shall meet at the World's Fair, and celebrate the occasion in some pleasant way. Thursday, Aug. 17th has been decided on as the day, and the exact time, place, and form of celebration will be duly announced. Students, past and present, take notice and plan to join in the reunion.

Although these are hard times, the mosquito is not at all backward this year about presenting his bill. The oldest inhabitant has never seen the mosquitos so numerous. Unlike love, he doesn't come in silence and alone to seek the elected one, but he simply swoops down upon the unlucky individual with his whole family, makes himself at home and stays to supper, singing his soft little summer song the while.

— *Lansing Journal.*

## THE GLORIOUS FOURTH OF JULY.

### How It Was Spent.

The Glorious Fourth was ushered in on the campus with the aid of forty-four guns fired at sunrise. Everything thereafter was so quiet on the grounds that if it had not been for a few small boys and an occasional fire cracker, there would have been little to have called the day to mind.

Along Faculty row every thing was especially quiet. Most of the ladies celebrated the day, doing the house work, while the "angels of the various kitchens" were away for an outing.

President Clute spent an easy and quiet day in his office.

Prof. Vedder saw the balloon ascension at the race track.

Prof. Cook visited his farm at Owosso.

Prof. Breckenridge was at the World's Fair.

Prof. Edwards took a bicycle run to Grand Ledge and back.

Prof. McNair was in Detroit.

Prof. VanDervoort spent the day in Lansing.

Mr. Gulley celebrated the Fourth at his home.

Mr. Coryell was in Chicago, looking after the College Exhibits.

Assistant Postmaster Bradley visited friends in Port Huron.

The rest of Faculty row kept too quiet to be even heard from.

Professors Woodworth, Harwood, and Vedder entertained us all by fireworks in the evening, which ended a very pleasant though quiet day.

At a meeting of the Students' Organization held this noon, Mr. D.D. McArthur was elected Editor-in-Chief of the *Speculum*.

## EMERY WHEELS.

The introduction of the solid emery wheel has to a great extent revolutionized many machine shop practices. It has made possible the performing of many operations on hardened metals which without it could never have been accomplished.

Iron cannot be chilled or steel tempered so hard that the emery wheel will not readily work it, and the harder the metal the better the surface produced.

In manufacturing these wheels it is necessary that the emery be mixed with some other substance that will act as a cement to hold the particles together. The wheel recommended by Brown and Sharpe for use on their grinding machinery are manufactured by the Morton Emery Wheel Co. of Worcester, Mass. This Company uses nothing but a specially prepared clay with the emery. The two are mixed together in the proper proportion and water is then added till the whole is in a semi-liquid condition. It is then moulded to the form of wheel desired and placed in a dry kiln where the water evaporates, leaving a body that with care may be handled without falling to pieces. It is next turned to accurate form on a potter's wheel and then placed in a kiln where for sixty hours it is subjected to a white heat. When taken from the kiln it receives the final operations in its construction, that of trueing, balancing and testing; the latter being accomplished by running the wheel at a speed considerably greater than its speed when in actual use.

The emery wheel may be readily turned to any desired form with a black diamond. It is certainly a case of "diamond cut diamond."

Emery wheels are graded from coarse to fine by numbers running from about

No 16 to No 160. As to their hardness, they are graded by letters, thus, A would be the softest grade and Z the hardest.

Coarse wheels are less liable to glaze than fine ones and consequently less liable to heat the work. As a rule, the harder the metal the coarser the wheel required to give a certain finish. Wheels composed of fine emery are more compact and harder than those of coarser emery. Soft wheels are usually free cutting wheels. The cement breaks away readily leaving the projecting particles of emery free to cut.

The speed at which emery wheels are run varies. For cylindrical grinding a circumferential speed of about 10,000 ft. per minute is employed.

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### Advertised List.

The following letters remain uncalled for at this post-office, July 7, 1893:

Wm. Bassford,	Prof. Clark,
Miss Lula Brown,	John W. Decker.
Joseph Foster,	Ed. Redman,
Miss Minnie Rath-	Henry Munger.
foot,	Louis Knapper.

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### All These Are Attending Summer School at the College.

R. E. Kincaid, a druggist of Hersey, is taking special work in Chemistry.

E. Andrews, Commissioner of Schools for Barry county, has joined the summer school to study Chemistry and Entomology.

Prof. W. E. Rydaleh, of the Brigham Young Academy, Provo City, Utah, is taking work here in Physics and Chemistry.

Prof. W. A. Stevenson, Ph. B., A. M., principal of schools at Gladwin, is working in Chemistry, Entomology, and Botany.

Prof. C. W. Bleeche, principal of the schools at Millington is taking summer school work in Geometry, Chemistry, and Physics.

Prof. Frank M. Lamb, principal of the Farmington High School, graduate of the Normal in '89, has joined our classes in Eng. Masterpieces and Entomology.

Prof. F. T. Wright, a graduate of the State Normal School and of the University, is taking special work in Chemistry. He is principal of the Jackson High School.

Prof. John W. Matthews, '85, and his wife, Mrs. D. E. Matthews, B. L. of the U. of M., are again with us as summer students. They have rooms with Mrs. Gunson.

Prof. J. W. Hoffman, of the dept of Biology in the State University at Louisville, Kentucky, is taking some work here in science, and studying the methods of the college.

Prof. Henry Thurtell, '88, of the Nevada State University, is doing work in mathematics during the summer. He is accompanied by his wife and will room at Mrs. Gunson's.

Prof. Edwin DeBar, '91, professor of Chemistry and Physics in the Oklahoma Agricultural College has come for a few week's work in Chemistry. He is studying for M. S. degree.

Prof. Frank Aldrich, a graduate of the State Normal School in 1885, and principal of the Ludington High School, is one of our summer students. He is studying English Masterpieces, Physics, and Chemistry.

Prof. Geo. C. Creelman, a graduate of the Toronto University, and at present Professor of Biology in the Mississippi Agricultural College, has joined the summer school. He takes work in Entomology and Botany.

Miss M. Haskins, B. L. of the U. of M. a teacher in the Battle Creek High School is in our summer school. She will work for our B. S. degree.

Miss L. Creed, Normal School, '90, a teacher in the Ludington High School, is also studying for the B. S. degree. Miss Creed and Miss Haskins are pleasantly remembered by college people from their stay here a year ago. They have rooms at Prof. Harwood's.

Miss Elizabeth Cargill, who was here as a summer student two years ago, now a teacher in the Grand Rapids schools, and Miss N. Campbell, also of the Grand Rapids schools, are here for work during the summer. They room at Mrs. Gunson's.

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**John Herrmann,  
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**NEWS OF THE ALUMNI.**

Prof. C. P. Gillette, '84, of the Colorado Agricultural College will leave for the east July 10th. He will visit his old home at Portland, the Exposition at Chicago, and his Alma Mater.

Dr. Geo. A. Waterman, '91, who graduated at the Chicago Veterinary College last April, has been elected professor of Veterinary science at the Storrs Agricultural College, Mansfield Conn., salary \$1500.00.

The wedding of Irving Bates, '87, to Miss Bessie Ray Johnson of Port Huron, is announced for July 12th at the home of the bride. The wedding is a private one owing to the death of the bride's mother a short time ago. THE EAGLE extends congratulations.

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