



# **The daily cardinal. Vol. IV, No. 49 November 8, 1894**

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# The Daily Cardinal.

UNIVERSITY OF WISCONSIN.

VOL. IV.—No 49]

MADISON, WIS., THURSDAY, NOVEMBER 8, 1894.

[PRICE THREE CENTS.

## SIGHT SEEING IN CHICAGO

### WHAT THE ENGINEERS SAW LAST WEEK.

### LARGE MANUFACTURING PLANTS VISITED.

### A Week of Pleasure and Instruction— —Prof. Bull and King with Them.

The senior mechanical engineers spent last week in Chicago in company with Professors Bull and King, visiting the points that were of interest to them in their vocation. Six of them—Hartwell, Hanson, Ahara, Golder, Grover and Meyer—with the professors left here on Monday morning at 5:10. They commenced their work of inspection as soon as they arrived, going first to the Western Electric Co.'s plant on the west side. They saw the process of covering cables with lead, done under a pressure of 600 tons per square inch. To make the covering more durable, about 3 per cent. tin is used with the lead. In the afternoon they went to two of the South Side Cable Power Houses, both being equipped with large Wheelock engines. The next morning they went to South Chicago and there visited the immense plant of the Illinois Steel Co., and followed the process of making rails from the ore to the blast furnace, the Bessmer converters, and thence to the rolling mill which turned out the finished rail. In the afternoon they went to the Auditorium light and power plant which is furnished with ten Williams compound vertical engines, that are directly connected to Siemens & Halke dynamos; the fuel used is natural gas piped from Indiana. From there they went to the New Edison Light and Power plant on the West Side. Power is furnished by two Edison engines and by ten engines of peculiar design. These engines were designed especially for Edison by a marine engineer. Petroleum is used for fuel at a cost of sixty-nine hundredths of a cent per kilo-watt hour.

Wednesday morning they visited the Northwestern repair shops and saw the new compound locomotive, which three of the students will test in the spring for their thesis work. On their return they visited the Bullock Engine works, where the Willans engines are made. At this place the metric system of measurements is used, since the plant is the American branch of an English and German firm. During the remainder of the day they visited Fraser & Chalmer's engine shop and the old arc-light and power plant, which is furnished with Williams horizontal engines made at Beloit.

The next day they went to Fraser & Chalmer's boiler shop on the West Side and also the Aermotor works where they were kindly invited to dinner by the president.

Friday they went to the Link Belt Co. shop and then to the American Bridge Co. works where they met their former instructor, Mr. Thorp, class '91. That afternoon they went to the North Side pumping station and with this finished their sight-seeing in Chicago.

They left Saturday morning for Waukegan to visit Washburn & Moen's wire plant and from there on to Milwaukee and visited the Allis Work, from there some returned to Madison, others going to their homes to spend the short vacation.

### END OF THE ART LOAN.

### "University Evening"—Special Musical Program.

Last evening at the Art-loan Mr. Lorado Taft of Chicago grew enthusiastic over the excellence of the exhibit, and interrupted his talk on sculpture to express his great satisfaction at what Madison had done. Tonight will perhaps be the last opportunity to see this admirable collection; it is quite certain that it cannot be held open later than Friday evening. At all events tonight is the time for university students to take advantage of an opportunity as rare as it is pleasant.

To add to the attractiveness of the evening the Mandolin club is expected to render a few numbers, and Mr. Sedgwick will sing. It is also proposed to have several persons, familiar with various portions of the exhibit, ready to discourse informally to groups of students on the special points of interest in the various parts of the collection.

As a social gathering place the "Art Loan" has been most attractive and the tea-room, which is also a sherbet-room, will be made particularly brilliant tonight in a dress of "Cardinal."

### REPUBLICANS CELEBRATE.

The republicans celebrated their recent victory in an appropriate manner last evening. Two bands, the drum corps and numberless tin horns assisted materially in making the affair a success. Large quantities of red fire works were burned for the occasion and these together with a large bonfire made a brilliant effect. Short speeches were made at the capitol by John A. Johnson, W. R. Bagley, C. E. Whelan, A. W. Anderson, District Attorney Elect F. M. Wooton and E. J. Henning, '94. A number of university republicans participated in the celebration.

### THE APPRENTICE SYSTEM.

At the regular meeting of the Pharmaceutical society, Friday evening, November 9th, Dr. Kremers will address the society on "The apprentice system." All interested are cordially invited to attend. Meeting at the Pharmaceutical lecture room in North hall, at 7:30 o'clock.

—Anna Mashek, '98, is receiving a visit from her father and mother, who are on their way to California.

—H. H. Jacobs was taken sick after the football practice Monday night with a high fever, but is better now.

—The training table has changed its boarding place from the University hotel to the Van Etta hotel.

—Harvard has five student publications, including two dailies. The different staffs contain over sixty men.

—Oberlin has the largest attendance of any college in Ohio.

## MATHEMATICS AND BOTANY

### MR. STECKER DISCUSSES THE THEORIES OF EUCLID.

### PROF. BARNES TALKS ON BROWN AND RED ALGAE.

### "University Night" at the Art Loan— Minor Matters.

The regular bi-weekly meeting of the Mathematical club was held in room 21, Science hall, last Saturday afternoon. The discussion of the afternoon was given by Mr. Stecker on "The Fundamental Assumptions of Euclidian Geometry." He first gave the distinction between an axiom and an assumption, defining the former as something that must from the very nature of things be true, as for instance, the whole of a thing must be greater than any of its parts, and the latter as something assumed for convenience in reasoning. In treating the subject he spoke first of the general assumptions which are at the foundation of Non-Euclidian as well as Euclidian Geometry. These were given as (a) Continuity, (b) Elementary flatness, (c) Possibility of movement of figure in the plane and in space without alteration of size or shape. He then went on to speak of the additional assumptions which mark the Euclidian geometry as such. These were given as (a) existence of straight line and plane as given by definition; (b) That the straight line is infinite in extent; (c) That the straight line is determined by two points; (d) That through a given point a parallel may be drawn to a given straight line; (e) That there can be drawn only one such parallel.

He then considered briefly in relation to the Non-Euclidian Geometry those propositions of Euclid, which precede the introduction of the assumption of parallels.

After Mr. Stecker finished his paper it was discussed by the different members of the club.

The time remaining when this paper was finished being so short, Mr. De Cou's paper on the "Life of Newton" was postponed until the next meeting when Mr. Skinner will also read a paper.

### LECTURE ON BOTANY.

Prof. Barnes considered the brown and the red algae in his lecture yesterday. The brown algae is considerable larger than the green, though some of the red are very small. The brown color of the plant is not due to any lack of green coloring matter but to the brown coloring concealing the green. The grown algae attains the greatest length of any sea weed in the world, growing to the length of 600 to 700 feet on the north coast of Australia. The first to be considered is the laminaria, a broad, flat plant found on the eastern coast of the United States and called from its shape the "Devils apron strings." One is the laminaria digitata which frays out like

the human hand. Here we meet a peculiar form of growth. Instead of having an apical growing cell as we find in the chara it has an intercalary mode, the cells growing out at the junction of the older stalks on the stem. The plant at first grows out in a fan like shape and then splits up in its peculiar form.

The fucus or "bladder wrack" is very common on rocky shores and grows somewhat like the chara. It has two or three swollen spaces which contain air to bury it up and keep it erect in water. The peculiarity of its apical cell is that it lies in a cavity. Its method of branching is dichotomous. At each branching the apical cell divides into two equal parts and each half forms an apical cell itself. Another distinction is the differentiation of cells into tissues, forming a division of labor. Cortex and pith here occur for the first time. On the outside we find smaller, firm, protective cells, on the inside soft, loose, mucilaginous ones. The inner cells are employed for holding water which is needed as these plants often grow on points between high and low tide and have to go for hours without it. The reproductive organs of these plants are concealed beneath swollen tips of the leaves. The spermary and ovary are open to the water. Biciliate sperms are discharged into the water and these swim about and find their way to the eggs that have likewise been discharged from the ovary into the sea. This plant furnishes the first case of the extrusion of the egg from the ovary, a method very rare in the plant kingdom.

The Sargassum or Gulf weed is noticed chiefly because of its importance in geography. In the northern part of the Atlantic ocean it accumulates in large quantities owing to the ocean currents and forms the Sargasso sea.

The red algae is the smallest and most beautiful of the algae family, but has a complex reproductive system. It employs besides the apical the marginal method of growth, in which case it forms a flat sheet, the cells on the margin all having the power of segmentation. Its mode of branching is the monopodial, having a single axis whose growing point continues to develop and produces lateral growing points of less vigor.

After the lecture the plants studied were reviewed in the physical lecture room with the aid of a magic lantern.

### LUTHERAN EXCURSION.

The Lutheran Young People's league of this city, which includes many university students, took an excursion to Stoughton Sunday morning, and more than a hundred boarded the special train which had been secured. In the afternoon a convention was held in one of the churches of that city, and, after a very pleasant visit, the leaguers took the train for home. The farmers along the way are said to be far richer today, from the legacies of hymns and college songs so freely distributed.

—Joe Dunkel repairs the students' shoes at 622 University Ave.

—Dr. Elsom entertains the members of his Bible class at his home on Dayton street Saturday evening. Novel invitations have been issued which make very tasty souvenirs of the occasion.



# The Daily Cardinal.

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Any failure to receive the Daily Cardinal  
promptly should be reported to the  
Business Manager.

The Mandolin and Banjo clubs have  
organized and elected officers. The  
Glee club appears to be somewhat  
tardy in this highly essential part of  
the year's preparation. The other col-  
lege clubs are making their concert  
dates and Wisconsin ought not to be  
left in the lurch through the procrasti-  
nation of one of its clubs.

Sophomores who are expecting to en-  
ter the oratorical contest are requested  
to meet Prof. Frankenburger Satur-  
day morning. For the benefit of such  
students who do not understand the  
purport of this notice, we take occa-  
sion to state that at the meeting of our  
oratorical association last spring it  
was decided to admit hereafter mem-  
bers of all classes to the final contest  
of the Northern Oratorical league, in-  
stead of confining the contestants to  
members of the senior class as has al-  
ways been the plan. Each class how-  
ever hold separate contests to deter-  
mine which shall enter the final con-  
test. The sophomores hold theirs this  
term. At that date two orators are  
chosen to represent the class in the  
final contest here some time in the  
winter term. Hence it is absolutely  
essential that any sophomores who  
have any ability in this important de-  
partment, should present themselves at  
the time specified in order that no time  
be lost in commencing systematic work  
on orations. This request applies as  
well to those who have not yet made  
any preparation for the contest, so do  
not be disheartened if some have the  
slight start of you. If you think you  
have intentions of entering do not  
hesitate for any reason of this sort.

## SHOULD PRACTICE HARDER.

To one who had been accustomed to  
the work of football teams in the east  
and to the enthusiasm which becomes  
more and more manifest as the big  
game of the season approaches it  
would have been impossible to realize  
from the practice yesterday that  
within ten days Wisconsin was to play  
the game which decided whether she  
took the first position among the col-  
lege teams of the west or stepped back  
into her usual second place. More  
than that—Illinois must be met here  
Saturday. We have but one more day  
left for practice and if the 'Varsity  
doesn't show up better than it has  
done so far this week the Champaign  
players will be liable to score a victory  
on it. It seems almost incomprehensi-  
ble that the men who have been so  
anxious all along for a game with  
Minnesota should now manifest so  
little interest in their work of prepara-  
tion for it and show so little concern  
as to the outcome of the games. To  
be plain, it must be said that the  
team seems to have gained an exag-  
gerated idea of its own capabilities,—  
not all of the men to be sure, but a  
large number of them. Capt. Lyman  
and Stickney have done and are doing  
all in their power to eradicate this  
idea but they are having a hard time  
of it. There has been nothing in the  
work of the team for over a week on  
which it can congratulate itself. The  
score of the Beloit game gives no good  
idea of the work of the team, which  
was anything but good. The interfer-  
ence, which was so strong two weeks  
ago, was either wretched or altogether  
lacking, Saturday fumbles were more  
frequent than in any game this year  
and the half backs, apparently confi-  
dent that they could gain their dis-  
tance stood out of line, started slowly,  
and gave the play away nearly every  
time. The tackles were very slow in  
starting with the ball but have done  
better this week. On defense the team  
did better, putting up quite a good  
game the few times that Beloit had the  
ball, but Beloit's aggressive game was  
not strong. All the week the practice  
has been miserable, the men acting as  
if they didn't care whether they put in  
any good practice or not. Of course it  
has been hard to work in such weather,  
first the extreme cold of Monday and  
Tuesday and then the snow, necessi-  
tating practice at Randall field. This  
with the fact that the greater part of  
the second eleven have not been out  
each night has made good work diffi-  
cult, but good work must be had for  
ten days now—such work as has not  
been seen here yet. The team has  
been taken to the Hotel Van Etta for  
the time up to the Minnesota game  
and under the direction of Capt. Ly-  
man, Coach Stickney, and Mr. Everett,  
they should be in the pink of condition  
the 17th, if they will just remember  
the 151 to 16 of which Minnesota takes  
such pleasure in reminding us. Re-  
members, boys, that 40 to 0 last year,  
remember that Minnesota men are  
literally working night and day and  
remember that on the result of that  
game hangs the western championship.  
Don't let the second half of the C. A.  
A. game which was clearly lost by  
over-confidence be repeated again this  
year.

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**PERE MARQUETTE STATUE.**  
Trentanove's Design Selected—To Cost \$8,000.

The committee appointed by Governor Peck to select a model for a statue of Pere Marquette to occupy a place in the capitol at Washington met yesterday afternoon at the state capitol and finally decided to award the making of the statue to Signor Trentanove, of Milwaukee. The committee consisted of Chairman J. W. Losey, of La Crosse; Archbishop Katzer, of Milwaukee; R. M. La Follette, of Madison; James Bardon, of Superior, and Frederick Layton, of Milwaukee. Models and designs were submitted by Miss Nellie Mears, of Oshkosh; Signor Trentanove, of Milwaukee; J. Gelert, of Chicago; C. H. Niehaus, of New York; Leonardo Braconey, of Chicago; J. S. Conway, of Milwaukee; Alexander Doyle, of New York and Mr. Vadgi, of Chicago. R. H. Park, of Milwaukee, sent a drawing and a number of photographs were sent. Accompanying the models were bids and specifications, all of which were taken into consideration in awarding the choice.

The model submitted by Signor Trentanove is one of originality and strength of proportion. The features are clear cut, firm, commanding, but kindly. A full beard covers the face. The forehead is large and high, and deeply lined; the hair is long and wavy forming a distinguished background for the deep sunken eyes and prominent heavy eyebrows. The figure is dressed in the long outer cloak of the priestly order, and the left hand grasps the edge of his raiment which is thrown aside, disclosing a cord about the waist with the crucifix at the end. In the right hand is an open bible.

The position of the figure is one of erect repose, with the right foot in advance. The statue will be seven feet high, and the pedestal four feet high. The pedestal will be of granite, with the side faces illustrating scenes from Pere Marquette's life in bas-relief. An inscription will adorn the front face.

The material of the statue is to be of the finest pure white marble, similar to that of the Spartan statue in the Layton art gallery in Milwaukee, or the busts of Matt. Carpenter and William E. Cramer in the state collection at the capitol. The statue is to be finished within fifteen months, and the cost of the completed work will be \$8,000. Signor Trentanove will work at the figure at his studio in Florence.

—The local chapter of Kappa Alpha Theta give an informal party at their chapter house tomorrow evening.

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**UNITARIAN GUILD.**  
The regular meeting of the Unitarian Guild takes place Saturday evening, November 10, at 7:30. An extensive program has been prepared. Prof. Frankenburg will read a paper on Mr. Emerson. You are cordially invited to attend.

**ORATORICAL PRIZES AT PRINCETON.**

Through the liberality of Charles O. Baird, of Philadelphia, the following prizes, representing the income of \$6,000, will be given to those who excel in the oratorical exercises in the Princeton senior class: The Baird prize of \$100 to the best speaker of those who have ranked among the first six writers in any two of the three departments of English literature, rhetoric and oratory; a prize for oratory of \$50 to the best speaker, exclusive of the Baird prizeman, of those who, in the same department, have ranked among the first twelve writers; a prize for delivery of \$30 to the best speaker, exclusive of the two just mentioned; also a prize of \$50 for the best poem, and two prizes of \$40 and \$30 respectively for the best and second best written disputations.

—The Yale Daily News has printed a list of the occupations and addresses of the recent graduating class. Seventy-eight members of the class are studying law, forty-one are undecided, twenty-one studying medicine, nineteen taking post-graduate courses, twelve studying theology, six traveling, and four are engaged in journalistic work.

—A new grand stand to be erected on the University of Penn. Athletic Grounds will require 250,000 feet of lumber and will seat 25,000 people.


#### FRESHMEN!

ALL members of the class of '98 who have not yet paid their class tax are urgently requested to do so as soon as possible.  
John C. Schmidtman, Treas.

**SOPHOMORE ORATORS:** All sophomores who intend to enter the oratorical contest will please report to Prof. Frankenburg at his room next Saturday forenoon from 10 to 12 o'clock.

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Electrical Review—A. V. Schreiber.

Iron Age—M. E. Seymore.

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St. Railway Gazette—R. D. Jenne.

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Western Electrician—C. J. Schmidt.

Debate: Resolved that the gas engine possesses more advantages than the steam engine, for powers not exceeding 4 H. P.

Power—L. D. Rowell.

Street Ry. Gazette—P. F. Haroff.

American Machinist—O. Winger.

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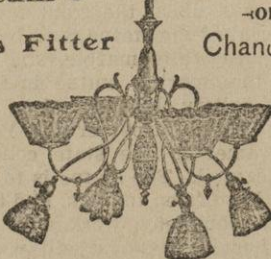
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