



The daily cardinal. Vol. IV, No. 62 November 23, 1894

[Madison, Wisconsin]: [s.n.], November 23, 1894

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The Daily Cardinal.

UNIVERSITY OF WISCONSIN.

VOL. IV.—No 62]

MADISON, WIS., FRIDAY, NOVEMBER 23, 1894.

[PRICE THREE CENTS.

PROF. BARNES ON BACTERIA

THEIR SIZE, STRUCTURE AND HABITS.

WHAT THEIR IMPORTANCE IS IN THE WORLD.

Prevent the Choking up of the Earth—and Produce Disease.

Prof. Barnes yesterday took up the fission fungi, or bacteria. These are only one twenty-five thousandth of an inch in diameter and their minute size necessitates a simple structure. This simplicity of structure has come by degeneration, the plants being originally of the complex algae. They have three main forms, the sphere, the rod, and the corkscrew. Their most important method of reproduction is by division. They break off transversely and increase with surprising rapidity, it often requiring but fifteen or twenty minutes to divide one cell into two under favorable conditions.

Saprophytes pull apart the substances on which they grow and get their oxygen from them. They also produce chemical changes which are variously known as fermentation, putrefaction and decay. These changes are but processes of the growth of organisms in the products. The fermentations are of various kinds and take their names from the chief product as in milk it is the lactic, in butter the butyric, etc. Putrefaction and decay are due to the bacteria tearing the substances to pieces to live on them. The chief benefit derived from them is that they prevent the choking up of the earth by accumulations of dead matter.

Their relation to household economy is important. Yeast is but one form of these plants. The lightness of bread depends on the growth of bacteria in the dough and on the gases formed by the sugar and starch in the flour. The preservation of fruits, eggs, milk, etc., depends on the conditions they furnish for the growth of bacteria. Thus in preserving fruits, we kill the germs by boiling and seal the cans to prevent the entrance of new ones. Bacteria are found in the air dust everywhere.

Parasites produce disease in the plants and animals they attack in three ways: First, by direct interference with their functions through numbers as in anthrax in which the capillaries in the blood vessels are clogged. Second, by producing abnormal growth as in suppuration in animals and swelling in plants. Third, by producing poisonous by products that affect the host. This is the most important and as an example in the plant world pear blight may be taken. Examples of germ diseases in animals are: typhoid fever, tuberculosis and diphtheria.

—Prof. Jastrow gave his class in psychology a quiz this afternoon.

—Mr. and Mrs. F. A. Stoltze entertained the football team at dinner Wednesday evening.

FRANK F. FOOTE.

The class of '86 are called to mourn the death of one of their classmates, F. F. Foote, who died of consumption, at Deming, New Mexico, Oct. 30., 1894. He was born at Lodi, Wis., June 23, 1860. He attended the public schools from which he graduated in June, 1878. After three years spent in teaching he entered the university with the class of '86, taking the civil engineering course. During the three years he spent in college he was known as a hard student and a favorite with his classmates. He held the position of first sergeant in the university battalion. At the end of his junior year, having obtained the practical part of his training, he left college and entered upon his profession. After two years in Iowa, Kansas and Missouri he went to Racine where he resided until shortly before his death. He was in the employ of the government superintending the improvement of the harbors at Racine, Kenosha and Waukegan. He also held the office of county surveyor for three years. In June, 1888, he married Miss Lizzie McDonald, of Arlington, Wis.

Having been in failing health for some time he went to Denver last June, hoping that the change of climate would be beneficial. The change effected a revival of strength and he left for western Texas where he spent two months surveying. Suffering a relapse he went to Fort Davis, a health resort among the mountains. Here he was joined by his wife and they started for Pasadena, Cal., where his sister resided, but at Deming, New Mexico, it was thought advisable to remove him from the train, and there, within an hour afterward he died.

To his wife and children and the other relatives who survive him the sympathy of his classmates and friends of the university is extended. The funeral was held at the M. E. church at Lodi under the auspices of the Masonic society. Outside the immediate limits of his profession, in which he achieved more than ordinary reputation and success, Mr. Foote was a man of numerous attainments. He was brilliant and acquisitive as a student, direct, forcible and tactful as a teacher, in his business relations upright and straightforward and in his home and family devoted and tender.

CROSS COUNTRY RUN.

Another of the popular cross country runs was held this afternoon at 3 o'clock. The gymnasium was the starting point and a number entered the contest.

UNITARIAN GUILD.

The regular meeting of the Unitarian Guild will be held Saturday at 7:30 p. m., in the church parlor. The following program has been prepared:

Recitation—Miss Rosenstengel.
Paper on Emerson—Dr. Knowlton.
Talk on "Self-Reliance"—Hon. Gerns.
Conversation on Essays—Guild.

A social time is assured and all are cordially invited to attend.

—Mr. Frederic Wagner, ex-'95, was married to Miss Emma Gund at Silver Creek, Ill., last Wednesday.

—S. H. Cady, '95, is in La Crosse visiting friends.

FRESHMEN MUST BE DIVIDED

CLASSES IN GYMNASTICS ARE TOO LARGE.

DRUGS PRESENTED TO THE PHARMACY COLLEGE.

Cross-Country Run Today—Minor Mention.

The freshman class in athletics is so large that it will be divided. The first containing all students whose initial letter is within the letters from A to L inclusive, will meet at 4 o'clock Monday and Wednesday. The second contains those whose initial is of the remainder of the alphabet. On Tuesday and Thursday the sophomores will meet as usual. On Friday the leaders of the squads meet at 4 o'clock, and the upper classmen will be given instruction from 5:30 to 6. On Saturday there will be a class for the faculty from 5 to 5:30. Indoor athletic class comes at 4 o'clock.

GIFT TO DEPARTMENT OF PHARMACY.

The pharmacognostical cabinet has been enriched by a collection of drugs presented by Messrs. W. H. Schieffelin & Co. of New York city. Glass jars have been ordered for the proper storage of the specimens.

The firm of Schieffelin & Co. is one of the oldest drug firms of the country. It has recently celebrated its hundredth anniversary, having passed through four generations. A handsomely illustrated brochure telling a story of continuous business means published for the occasion. A copy of the same is to be found in the library.

COMMENTS ON THE GAME.

Echoes of the great Wisconsin-Minnesota game of Saturday will be heard for years to come. It was a contest unequaled in the history of western football, and by its magnificent victory Madison has gained the title of the "Yale of the west"—the great football university this side of Philadelphia.

It is peculiarly unfortunate that Wisconsin is not to play any eastern team this year. It is the best eleven ever turned out in the west and should represent the west instead of Ann Arbor. The latter team, indeed, is no match for Madison and has conceded as much by refusing to accept its challenge. Wisconsin has the right to play against Cornell, Pennsylvania or any eastern eleven, for it has the best quarter in the country, two of the best halves, an excellent full-back and a wonderfully strong line. Besides, its team work has been developed beyond anything ever seen outside of Princeton or Yale. Coach Stickney has earned a rank beside Marshall Newell by his training of the Madison eleven this fall.—Chicago Post.

—Coach Sickney left for the east where he will witness the three big eastern football games.

LADIES' LITERARY SOCIETIES.

LAUREA:

Roll call—responded to by athletic notes.

Music—Miss Rosenstengel.

Current News—Miss Hood.

Debate—Resolved that football is educative rather than brutalizing.

Paper—Athletics in U. W., Miss Comstock.

Music—Miss Medbery.

Critic's Report.

CASTALIA:

Roll call—responded to by news items.

Music—Miss Smith.

Review of "Jack Stanhope's Gal," Miss McGregor.

Debate—Resolved that the womanly characteristics of Portia as a sweetheart surpassed those of Rosalind.

Recitation—Miss Pengra.

Entertainment—Miss Atwood, Miss Haveland and Miss Pomeroy.

AMERICAN ACADEMY OF POLITICAL AND SOCIAL SCIENCE.

The twenty-seventh scientific session of the Academy will be held in the drawing room of the New Century club, 124 South Twelfth street, Philadelphia, on Tuesday, Nov. 27, 1894, at 8 p. m.

Professor Simon N. Patten will read a paper on "The Teaching of Political Economy in the Public Schools." This subject will be discussed by Superintendent Edward Brooks, of the Philadelphia public schools; President Charles DeGarmo, of Swarthmore College; Principal George H. Cliff, of the Philadelphia Girls' Normal School; Professor George F. James, of the New York School of Pedagogy; President James MacAlister, of the Drexel Institute; Mrs. J. P. Mumford, of the Philadelphia Board of Education; Dr. James C. Mackenzie, of Lawrenceville, N. J., and President J. Monroe Willard, of the Educational club. Provost Charles C. Harrison, of the University of Pennsylvania will preside.

It may be of interest to note that this is the third meeting of the Academy which has been devoted to a purely educational subject which distinctly falls within the field of economics and politics. The twelfth session of the Academy was given up to a discussion of the question: "Ethical Training in the Public Schools;" and the eighteenth session was devoted to the subject: "The Relation of the State to Education in England and America." The papers presented at those meetings were published in the Annals, and subsequently in separate editions which have been widely called for in educational circles.

—E. J. Ochsner of Chicago is visiting at the university and shaking hands with many of his old friends; he graduated with the class of '91 from the general science course and from Rush Medical in '94 and now holds a responsible position as doctor in the Cook county hospital. He will attend Hesperia tonight, of which society he was always a most loyal member.

—Prof. Birge is away inspecting high schools.

—Sixty-nine men are working for the freshman crew at Harvard.

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Every student should buy the Sun-
day edition of the Milwaukee Senti-
nel as it will contain a full account
of the musical clubs of the university.

Wisconsin defeated Minnesota be-
fore a crowd of 3,000 at Madison on
Saturday, by a score of 6-0. Karel
made the only touchdown by a forty
yards run, eleven minutes after the
beginning of the second half. With
characteristic assurance, Wisconsin
now claims the championship of the
west.—U. of M. Daily.

Why not?

During the fall term football is al-
most the only college sport that re-
ceives attention but, now that our
eleven has gone out of training the
other departments of athletics should
be remembered. Wisconsin has al-
ways based her claim to athletic dis-
tinction on general all-around
work, and not as most western uni-
versities on proficiency in one thing.
So the track men, the crew and the
nine should not forget that they will
be called upon to fight for their alma
mater and that when the time for bat-
tle comes they must not be found
wanting.

SOME COLLEGE SOCIETIES.

Societies at Harvard and Yale form
an important feature of college life.
The Phi Beta Kappa at Yale admits
only those men who stand high in
their class. Every man who has a
certain mark is supposed to join it.
At Harvard there is nothing of this
kind.

The three senior societies at Yale
are the "Skull and Bones," "Scroll
and Key," and "The Wolf's Head."
Each one of these takes in fifteen men,
so that there are only forty-five in
all. The election is carried on in a
curious manner. Near the last night

in the junior year all the members
of that class congregate in a large
space. In a short time forty-five mem-
bers of these three societies emerge
from different directions. Each man
peers about until he sees the man
whom he wants to take his place; then
he goes up to him and hits him on the
shoulder and says in a loud voice: "Go
to your room." The lucky man, hardly
able to contain himself, runs off to his
room, where a short time afterward he
is called on and told when the initia-
tion is to take place. It is said that
this night is the most exciting during a
man's course. It sometimes takes a
long time to do the "tapping," owing
to the dimness of the light and the
number of the men, and so eager is
each man to be chosen that he would
almost give his right hand for the
honor.

At Harvard there are two principal
societies—"Hasty Pudding," composed
of eighty-five men from the junior and
senior classes, and the "The Institute
of 1770," a sophomore society of 100
men. The requirements for election
differ greatly at these two colleges. A
man may become a member of
"Bones" if he is a famous athlete, a
literary man or very popular. Har-
vard, we may say, is aristocratic. A
man may bring renown to the institu-
tion either by his brains or his music,
but that will not admit him to a so-
ciety. He must be a gentleman in the
strictest English sense of the word.
Money also counts a great deal here.—
Philadelphia Ledger.

UNIVERSITY CALENDAR.

Saturday, November 24.

Mathematical club, North hall, 4 p.
m.

Sunday, November 25.

Students' Bible classes: Congrega-
tional church, Dr. Birge; Baptist
church, Dr. Elsom; Methodist church,
Prof. Smith; Presbyterian church,
Prof. Williams, at 12 m.

Y. W. and Y. M. C. A. meeting, law
building, 3:30 p. m.

Monday, November 26.

Lecture in economics, Prof. Scott,
law buildings, 4 p. m.

History and literature of Israel,
Prof. Williams, North hall, 6:45 p. m.

Choral Union rehearsal, Library hall,
7:30 p. m.

Press club meeting, North hall, 7:30
p. m.

Tuesday, November 27.

Lecture on history, Prof. Haskins,
Science hall, 4 p. m.

Co-operative association meeting,
Science hall, 7 p. m.

Wednesday, November 28.

Lecture on the Epics of the World,
Prof. Freeman, law building, 4 p. m.

Y. W. C. A. meeting, Ladies' hall,
5 p. m.

Thursday, November 29.

Lecture on Biology, Prof. Barnes,
Science hall, 4 p. m.

Y. M. C. A. meeting, law building,
6:45 p. m.

Thanksgiving Day. Classes are sus-
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trict of Columbia 32, Iowa 19, Mis-
souri 17, Kentucky 15, Delaware 12,
Indiana 11, Massachusetts 8.

The 50th anniversary of the founda-
tion of the Delta Kappa Epsilon
fraternity was held in New York
on Nov. 14, 15 and 16th.

Exeter and the Massachusetts In-
stitute of Technology have played two
tie games this season.

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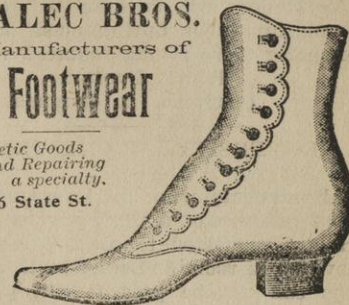
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OFFICIAL NOTICES.

NOVEMBER 23, 1894.

GYMNASIUM CLASSES.

Beginning Monday, Nov. 26, the freshman class in gymnastics will be divided into two divisions. The first division will include all whose names begin with letters from A to L inclusive, and they will report for gymnastics at 4 o'clock.

The second division will include all whose names begin with letters from M to Z inclusive, and they will report at 5 o'clock on Monday.

No student will be admitted to the gymnasium floor during class hours, excepting those taking required work.

H. H. Everett,
Instructor in Gymnastics.

UNIVERSITY ORCHESTRA.

All students who are interested in the formation of a university orchestra are requested to meet Saturday, Nov. 24, in room 5, Ladies' hall. Any who can not be present will please send their names. The purpose is to form an orchestra for legitimate orchestral work.

F. A. Parker.

ENGINEERS' MEETING.

There will be a meeting of the board of engineers at 3 p. m., Monday, Nov. 26, in room 22, Science hall.

E. R. Maurer, Sec.

YALE CORPORATION MEETING.

The Yale corporation met last week and confirmed the report of the committee on the new commencement program. Winthrop Buchanan, of New York, was elected in place of Chauncey M. Depew, on the executive committee of the corporation.

The dark blue was officially declared the university color and a coat of arms showing the seal of the university on a dark blue background. The regular law school course was extended to three years.

It was announced that a donor had offered to erect a gate to be placed between the library and the art building, the style to be similar to those at either side of Vanderbilt hall, which gift the university has accepted. The total amount of university funds, as reported, is \$1,196,569.48.

ANCIENT HISTORY CONDITIONS. The examination to remove conditions in the spring term's work in Ancient History will be held Tuesday, November 27, at 2 p. m. in room 12, University hall.

Chas. H. Haskins.

CARDINAL BOARD: There will be a meeting of the Cardinal board (editors and reporters) at the office in University hall, Saturday at 12 m.

CO-OPERATIVE ASSOCIATION: There will be a meeting of the directors of the Co-operative association Tuesday, November 27, at 7 p. m., in room 25, Science hall.

ATTENTION.

For ten paid up subscriptions to June 20, '95, will be given one subscription free.

Manager.

Y. M. C. A.:—The topic for the Thursday evening prayer meeting is "The Promises,"—2 Peter, 1:4 and 2 Cor., 7:1-11.

Locals under this head 1c. a word.

LOST—A bunch of about a dozen keys. Please return to Cardinal office.

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FOUND—A sword stick pin with settings in Science hall. To be had of Instructor Cheney at room 41.

A rare musical treat will be afforded those holding tickets in the People's Lecture Course, by the Marie Decca Concert on Saturday evening, November 24th,—the first of the course of six—two concerts and four lectures. Tickets at Sumner's Drug Store, and Davy's news stand and the co-op. 3t

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