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The Daily Cardinal.

UNIVERSITY OF WISCONSIN.

VOL. IV.—No 64]

MADISON, WIS., MONDAY, NOVEMBER 26, 1894.

[PRICE THREE CENTS.

WHAT SIR ISAAC NEWTON DID

MR. DE COU TELLS THE MATHEMATICAL CLUB.

IRRATIONAL NUMBERS DISCUSSED BY MR. SKINNER.

Dr. Van Vleck and Mr. Doudna Will Talk Next Time.

The Mathematical club held a meeting Saturday afternoon in Science hall. The program consisted of a paper by E. E. De Cou on the life of Isaac Newton and another by Mr. E. B. Skinner on Cantor's Theory of Irrational Numbers. Cantor is a professor of mathematics in Holland, who has devoted himself to the study of irrational numbers. The paper was an exceedingly interesting one. Although elementary in nature, it would require too elaborate a display of mathematical symbols to give in the columns of The Cardinal a satisfactory synopsis of the paper. Mr. De Cou spoke as follows:

Sir Isaac Newton, the greatest of natural philosophers, was born in the quiet hamlet of Woolsthorpe, England, in 1642—a little over two and one half centuries ago.

As a boy he was thoughtful and studious and enjoyed constructing ingenious mechanical contrivances, such as water clocks and windmills, for the amusement of himself and his companions.

His attention was soon turned to mathematics and without any preliminary study of the propositions of Euclid, which he considered as self-evident truths, he made himself master of the difficult geometry of Descartes.

In 1664 he took his B. A. degree at Trinity college, Cambridge; the twenty years following this were studded with brilliant discoveries, some of which were—the Cinomial theorem, fluxions or calculus, the now universally accepted law of gravitation, and the differing refrangibilities of differently colored light rays. The emission, or corpuscular theory of light is due to him and the reflecting telescope, the reflecting microscope and the sextant are his inventions.

For over thirty years he filled a professor's chair at Cambridge, and there his great work, the Principia, was written. In 1703 he was elected president of the Royal Society and two years later was knighted by the King. At his death, in 1727, he was buried with great pomp in Westminster Abbey.

In appearance, Newton was short, but well set, with a square lower jaw, a very broad forehead, rather sharp features, and brown eyes; his hair turned gray before he was thirty and remained thick and white as silver till his death.

In dress he was somewhat slovenly, and because of his pre-occupation he was not a very lively companion. He took no exercise, and worked incessantly, often spending 18 or 19 hours a day writing.

He was a very modest man, and per-

fectly straightforward and honest. He was so sensitive to being involved in discussions that nearly all his works were published under pressure from friends.

As an indication of the vast importance of Newton's work the words of La Grange are noteworthy. On reading the Principia he said he felt dazed at such an illustration of what man's intellect might be capable. It was a favorite remark of his that Newton was not only the greatest genius that had ever existed, but he was also the most fortunate, for as there is but one universe, it can happen to but one man in the world's history to be the interpreter of its laws.

The next meeting of the club will be held Saturday, December 8, at which time Dr. Van Vleck will present a paper on some new kinds of triangles and polygons and P. E. Doudna will speak of Sir William Rowan Hamilton and some of his discoveries.

UNIVERSITY ORCHESTRA.

At the call of Prof. Parker a few students met Saturday in Main hall to organize a University orchestra, but owing to the failure to announce the hour the attendance was small. There were enough instruments reported to make a good orchestra. It is probable that another meeting will be called early next week after the students return from the Thanksgiving vacation and all who have orchestral instruments will be asked to meet; further notice will be given in regard to the time and place. Any person who may wish to join can do so by giving their names to Prof. Parker, Dr. Saunders or Ralph Daniels. Six violins have been reported already, and in all about 12 stringed instruments have been found.

TREATISE TRANSLATED.

Prof. F. W. Woll, assistant professor of agricultural chemistry here, has done the science of dairying a good service in translating Prof. G. Grotenfelt's "Principles of Modern Dairy Practice." Prof. Grotenfelt is president of the Mustiala agricultural college, Finland. The London Live Stock Journal of Nov. 9, 1894, in a long review of it says: "The English speaking people are indebted to Prof. Woll for unlocking a valuable store of information. We recommend it as one of the most valuable contributions to the science of the dairy that we have received for some time."

STOUGHTON VS. OREGON.

Saturday afternoon a football game was played between the Stoughton and Oregon High Schools at Oregon, resulting in a tie game. Score, 10-10. Ryan, of the 'Varsity eleven, was umpire. This is the second game played this season between the two schools, the first being won by Stoughton by a score of 46 to 0. The game showed a great improvement on the part of the Oregon eleven.

—Miss Ada Barling, ex-'97, of Milwaukee, is visiting friends at Ladies' hall.

—A. B. Schuette, '95, is back on the hill after a week's illness.

—A. C. Bell, '94, spent Sunday at the Delta Upsilon lodge.

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BADGER BOARD WANTS PHOTOS OF THE SENIORS.

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Early this term it was decided by the senior class, in response to an invitation by the Badger board, to have the senior pictures published in the Badger this year instead of having them published in a separate souvenir book. The work of collecting the senior photographs will be done by the Badger board and will begin directly after the Thanksgiving holidays, on next Monday, and it will greatly facilitate the work of collection if each member of '95 will have ready his or her photograph and one dollar when called upon.

The picture that will appear best in the half tone reproduction is card size and should be new and not yellow stained with age. Of course cabinets can be used, but these will not show up nearly as well as card photos, owing to the necessary reduction being too great. A very good size for this purpose is the card size made by Curtiss which was used last year by the '95 Badger board in their picture. A reduction in the price of these photographs has been secured this year, for the first time, so that those seniors who desire can get them at a considerable reduction, the regular rate being \$3. A new, clear photo of this size will show up best in the class souvenir department of the Badger and as the pictures will be taken with this idea in view, the results should be particularly fine. This is a good chance for seniors to get pictures for exchange, as they will no doubt do so at some time during the year, and it is desired that all doing so will be prompt in passing them over to the board.

All photos must be bust and head pictures, no full length photographs will be taken and under no circumstances will a photograph be taken without accompanying payment of one dollar.

BIBLE CLASS RECEPTION.

The ladies of Professor W. H. Williams' university bible class gave a reception to their instructor at the residence of Mr. J. B. Berryman, on Wisconsin avenue Saturday evening. About sixty of the members of the class and friends of Professor Williams were present.

UNIVERSITY PRESS CLUB.

The Press club will meet this evening at 7:30 o'clock in North hall. The program will include a sketch by Miss Zone Gale and a paper on news gathering on the large dailies, to be followed by a discussion.

THEY DIDN'T SCORE.

Madison High School Beats Milwaukee by 56 to 0.

The Madison High School football team added another victory to its credit Saturday afternoon by defeating the East Milwaukee High School team. They out-played their opponents at every point and their team work was good. The score is sufficient to show the game to be a complete walk-away for them, it being 56 to 0. Only two times was the ball in Madison's territory any distance and at those times it was owing to a punt and a fumble. Milwaukee was unable to make the required five yards but a few times during the game while the Madison boys frequently made big gains, and succeeded in breaking through their opponent's line often. Madison scored twelve touchdowns but only kicked four goals. Roebel was hurt in the second half and Quarels took his place.

The individual plays of Milward, Berryman and Anderson for Madison were notable features of the game. Spencer and Flanders did good work for the visitors. Chamberlain, who played left end for Milwaukee, deserves comment for the pains he took in keeping out of every play. It is said that he has played on Harvard second eleven, but his work was anything but good here. The men lined up as follows:

Milwaukee		Madison
Chamberlain	l. e.	Dean
Barr	l. t.	Johnson
Roebel	l. g.	Donkle, L.
Collins	c.	Schilling
Huff	r. g.	Donkle, A.
Shape	r. t.	Lyle
Siefert	r. e.	Benson
Spencer	q. b.	Slightam
Flanders	l. h. b.	Anderson
Bolding	r. h. f.	Milward
Steinel	f. b.	Berryman

Dickinson umpired the first half and Richard during the last half. Major was linesman.

UNITARIAN GUILD.

Dr. Knowlton Reads a Paper on Emerson.

The meeting of the Unitarian Guild was held last Saturday evening in the parlors of the Unitarian church. There was a good attendance and a very interesting program was presented. Miss Rosenstengel opened the exercises by a declamation which was well received.

Prof. Knowlton then read a paper on Emerson. He did not consider Emerson either a great poet or a great philosopher. He ranks chiefly as a great teacher—a teacher of a nation. The high ideal which he strove after was to live in the spirit. Emerson is not as yet appreciated as he should be and it will perhaps take generations before his exact rank in philosophy and literature can be determined. Prof. Knowlton stated from personal experience that Emerson is being more and more appreciated outside of his native country. Prof. Knowlton's paper was the incentive to a very interesting discussion, bringing many facts about the teachings of Emerson. After the close of the exercise tohse present were entertained by the members of the guild.

The Daily Cardinal.

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Classes will be suspended Friday
and Saturday after Thanksgiving day.

Press club meets tonight. If you are
interested in journalism be there.

The reports of football games in
some of the newspapers would make
the innocent public believe that it is
only by the merest chance that a foot-
ball player escapes without serious in-
juries, while as a matter of fact the
men who are supposed to be so seri-
ously hurt generally manage to appear
the day after the game, little the worse
for playing.

The athlete as well as the student
of history would derive considerable
information as well as pleasure by in-
specting some plates illustrating vari-
ous phases of ancient Egyptian life
and customs. Some of these have re-
cently been received at the historical
library and students are at liberty to
examine them any time. Among the
several curious inscriptions that one
notices, cut upon excavated tombs of
the early Pharaohs, are some concern-
ing wrestlers. Dr. Everett was great-
ly pleased with some of these which
were shown him by fellows in history.
There are groups of men sparring, ex-
hibiting all the various holds and po-
sitions then in use. Strange as it may
seem these are identical with those
of today. Dr. Everett has spoken of
some of his classes concerning them
as they are very valuable for object
lessons. Others wishing to become
familiar with these curiosities can see
the same by calling for the Beni Has-
san Monumental inscriptions.

—The Harvard students will give a
French play, "Les Foberies de Sca-
fim," sometime this winter.

NEW BOOK ON FOOTBALL.

"Football Facts and Figures," by
Walter Camp, published by Harper &
Brothers, embodies the result of the in-
vestigation instituted as a result of the
harsh criticism of the game last fall.
Its purpose was to secure an opinion
from head masters of schools, mem-
bers of college faculties, and former
captains of teams, whose letters are
quoted in full. This is the first care-
ful research made into the game. The
almost unanimous opinion of the foot-
ball players of Yale, Princeton and
Harvard since 1876 is that the sport
has benefitted them both physically
and mentally; and that the injuries are
unimportant and far out-weighted by
the benefits. Graduates of from one to
seventeen years standing are surely
competent to judge the effects of the
game in colleges. In the preparatory
schools it has proved equally beneficial
to the physical and mental develop-
ment of the boys as attested by their
principals and by the boys themselves.
In the colleges the athlete and espe-
cially the football man holds a fair
rank in scholarship, and there are a
number of cases of very high standing.
Most of the injuries sustained were
sprains of the knee or ankle, especially
the latter. It is probable that the con-
dition of the ground is mainly respon-
sible for the great increase of such ac-
cidents; and it is suggested that no
school or college field be used without
permission of some person accountable
for its condition.

The investigation in its entirety is
comprehensive, bringing to light the
defects of the game, for the correction
of which practical suggestions are of-
fered, as well as its advantages, and
the thanks of all who wish to see the
best of college sports improved are due
the committee for their diligent ser-
vices.—Daily Princetonian.

BOOK REVIEWS.

Prof. H. L. Russell, assistant pro-
fessor of bacteriology in the univer-
sity, has just brought out a timely
work "Outlines of Dairy Bacteriology."
The three parts of the book are re-
spectively devoted to: Synopsis of bac-
teria in general; relation of bacteria to
milk; relation of bacteria to milk pro-
ducts. The work shows painstaking
chemical research, has many excellent
hints on dairying, and many on house-
hold diseases connected therewith. It
is recommended as a most valuable
book.

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—F. S. Barrows, '98, went to his home at Tomah for a visit, last Saturday.

—Mr. Guy Fox, of Elroy, visited over Sunday with C. E. Prevey, '95, and F. M. Baldwin, '98.

—Miss Andrea R. Matson, of Poyette, has entered the university, taking up the English course.

—C. and A. Brewer, two of the star players on Harvard's eleven, are cousins of C. L. Brewer, '97.

—J. T. Hunter, of Peoria, Ill., has come from Cornell, and will enter upon work in the mechanical engineering course.

—Dr. and Mrs. Manchester, of Wau-paca, spent Sunday with their daughter, Mrs. F. A. Lowell and their son, John Manchester, '98.

—Last Friday Mr. and Mrs. Witter, of Grand Rapids, stopped here on their way home from the east and found their son, Isaac P. Witter on the sick list. He is now improving.

—In a football game between the Eureka and Normal (Ill.) elevens, Frank Dillon, ex-captain of the U. W. base ball nine, made a beautiful run for a touchdown, and scored two drop kicks from the field, thus winning the game for Normal. He played full back for the latter eleven. A brother of Joe Major of the 'varsity team played tackle for Eureka.

—The fixed annual income of the University of California is now \$325,000.

—The junior appointments at Yale will hereafter be in October instead of in February.

—Newell has refused to sign a contract to take charge of the Cornell team next year.

—Columbia's endowment fund is now \$9,000,000. It is second only to that of Girard College.

—Yale has the first date arranged for next year's baseball season with the New York at the Polo grounds on April 15th.

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—It is probable that a three cornered debate between Yale, Harvard and Princeton will occur this winter.

—Plans for the construction of a new dormitory to cost \$50,000 at Brown university have been accepted.

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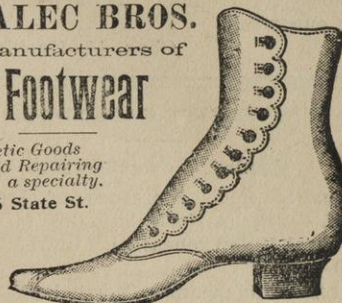
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OFFICIAL NOTICES.

NOVEMBER 26, 1894.

SYNOPTIC BIOLOGY: On account of the conflicts produced by the change from Wednesday to Thursday to accommodate the department of English literature, it is found necessary to return to the hour on Wednesday. Class will therefore meet on Wednesday next, Nov. 28, at 4 p. m., in room 42, Science hall. Quiz on two preceding lectures on Fungi.

C. R. Barnes.

SYNOPTICAL LECTURE ON HISTORY: The synoptical lecture on history which would regularly be given Tuesday, November 27, is postponed for one week.

Chas. H. Haskins.

UNIVERSITY CALENDAR.

Monday, November 26.

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.

Thanksgiving Day. Classes are suspended.

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.

Locals under this head 1c. a word.

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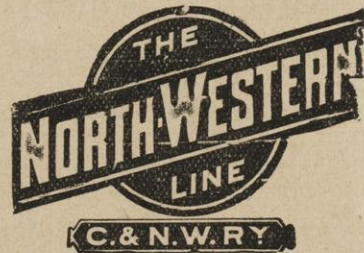
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