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The Daily Cardinal.

UNIVERSITY OF WISCONSIN.

VOL. IV—No. 107.]

MADISON, WIS., SATURDAY, FEBRUARY 9, 1895.

[PRICE THREE CENTS.]

THE MAGNETIC OBSERVATORY

HISTORY OF ITS ESTABLISHMENT AND USE.

OBSERVED THE FLUCTUATION OF THE MAGNETIC NEEDLE.

Established in 1876—Afterwards Moved to Alaska.

Many students have probably, in rambling down the slope south of University hall, noticed a black walled hole extending back into the hill, and, after a curious peep in and a few gloomy reflections, have wandered on again and forgotten all about it. This tunnel has a history in which the names United States, magnetic force, and hazing, all have their place.

Contrary to the opinions which some may have formed, it was not constructed from contributions from the sophomores for the proper discipline of factious freshmen, but out of a fund left by Bache, 2nd superintendent of the U. S. Coast Survey, in 1873, for the purpose of making magnetic observations. The fund was in charge of a commission at Washington and Prof. Davies, realizing the importance of the enterprise, labored assiduously to procure its establishment here. In 1876 he was successful, and University hall was selected as a site.

The observatory consisted of three chambers, the tunnel running out on to the hillside, a narrow hall at right angles with the tunnel, and a square room beyond in which the observations were taken. There was a door leading from the tunnel into the hall, and another leading from the hall into the observatory proper. The visitor on entering the middle room, would shut the door behind him before opening the one leading into the observatory, so that no light or outside influence could disturb the workings of the instruments. The entire excavation was enclosed by double walls with a two-foot air space between to preserve uniformity of temperature, and the builders were so successful in this that at no time, either in summer or winter, did the temperature fluctuate more than three degrees.

The observations were taken by a set of Brooks recording magnetographs, including two instruments for measuring horizontal and vertical magnetic forces, and one for changes of so called variations of the compass, these changes being recorded photographically on cylinders revolving by clock work. They also recorded, automatically, all magnetic storms or other sudden fluctuations of either the direction or the intensity of the magnetic force.

The observations were highly satisfactory in their results. They went to confirm the sun spot period and an eleven year magnetic period, and many of the most violent storms recorded here were found to be also generally recorded over the earth even so far as India, showing that some exterior effect common over the whole earth

was at work. On several occasions observations were made as to the effect of thunderstorms on the needles, but no variations were noticed. On the other hand blizzards were invariably preceded by disturbances.

The instruments were run continuously for six and a half years, which would be about one half of a magnetic cycle, and were then dismantled for use at Point Barrow, Alaska. The station at this point is still maintained and another lot of instruments is set up at Los Angeles, California.

LITERARY SOCIETIES.

The Hesperian society held one of its rousing meetings last evening. Nearly every seat was occupied and the debates and volunteer speeches were composed of solid and substantial matter. The question, Resolved, that the granting of lands to the railroads was impolitic, was won by the affirmative, under Tillotson. The 2nd debate, Resolved, that capital punishment should be abolished, was also won by the affirmative led by Wigdale. The singing of college songs at recess furnished the spice to a very interesting program.

Philomathia's meeting last evening, although not largely attended, was a very enthusiastic and profitable one to all present. The first debate, upon the question: Resolved, that the United States should adopt a system of arbitration between railroads and their employes, was able led on the affirmative by T. R. Brazeau, against E. R. Buckley on the negative. The question was decided in favor of the affirmative.

The second debate was a very close one as both sides had put much time upon the question and many strong points were scored by both. The question: Resolved, that the United States should adopt a system of free coinage of silver, provided the cooperation of France could be secured, was led on the affirmative by Wetter and on the negative by Schmidtman, who won the question. Some important business was transacted, including the election of several new members.

'97 ENGINEERS CLUB.

Last night's meeting of the '97 Engineer's club was opened by an interesting paper on the life of James Watts, by S. D. Rowell. The debate which followed was on the question: Resolved, that a technical department of a state university is preferable to a separate college in a manufacturing city, (it being conceded that the university city is not in a too manufacturing center.)

The affirmative of the question was sustained by L. L. Owen and M. Beebe, the negative by C. B. Rider and P. F. Harloff. The debate was close and exciting and was won by the affirmative. The usual number of Engineering Magazines were also reviewed by various members of the society.

CHRISTIAN ASSOCIATIONS.

Dr. J. C. Elsom will speak at the Y. M. and Y. W. C. A. meeting on Sunday at 4:30 p. m. in the law building. Topic: "Christian Athletics." All students should hear him.

—Will. H. Mann, '97, has recovered from his recent illness.

SECOND INDOOR EXHIBITION

WILL BE GIVEN AT THE GYMNASIUM TONIGHT.

AN ADMISSION OF TEN CENTS WILL BE CHARGED.

Horizontal Bar Exhibition—'98 Cane Spree Trials.

The following is the program for the second of the indoor athletic meets to be held in the gymnasium this evening. An admission fee of ten cents will be charged.

40 yard dash (Handicap).

880 yard Run.

Mile Walk.

2 lap. Low Hurdle Race.

3 Standing Broad Jumps.

Putting 12 lb. Shot.

Besides these events a class will give an exhibition on the horizontal bar and the candidates for the '98 cane spree will have their trial bouts to decide who shall represent the class. This will form a much better program and a rather longer one than last Saturday night and the fact that the proceeds are to go to send a team to represent Wisconsin at Chicago against strong athletic rivals should be enough to fill all the available room.

PRESS CLUB.

The University Press club held its regular meeting in North hall Thursday evening. Though the attendance was small a very pleasant evening was spent by all those present. Mr. Starkey, legislative correspondent for the Evening Wisconsin, addressed the club upon "The Collecting of News in Large Conventions." He showed how in great conventions large quantities of news were collected and published in a very short space of time. Immediately preceding a great political or other convention each paper hires a large number of reporters whose only duty is to lounge about the hotels and other resorts of the delegates and to collect little by little in conversation with the different delegates any matters which contain any bearing upon the final result of the convention. A Wisconsin reporter at such a convention would busy himself principally with matters which concerned his state. If there was a probability of a Wisconsin man being nominated for some office he would pay especial attention to the chances of this man. Mr. Starkey mentioned many interesting incidents which had occurred to him in his career as a newspaper man.

DELTA UPSILON ENTERTAINS.

A Delightful Dance Given at the Chapter Lodge.

A very pleasant dancing party was given by the local chapter of Delta Upsilon at its lodge on State street, yesterday evening. The parlors were handsomely decorated with palms, ferns and cut flowers. Of the latter, roses, carnations and Harrissie lilies,

were used in a most artistic manner, the mantels and the refreshment room being especially noticeable for their beautiful effects. Leuders' Orchestra furnished the music for the occasion.

Prof. and Mrs. D. B. Frankenburg and Mr. and Mrs. T. A. Polleys chaperoned the party. The others present were: Misses Blanche Shearer, Eleanore Bliss, Daisy Sames, Anna Flint, Mae Pendleton, Mary Freeman, Frances Welles, Ino Proctor, Georgie Hayden, Helen Burton, Meta Schuman, Mary Carlton, Jennie Davis, Mamie Laffin, and Miss McNaney, of Milwaukee.

Prof. Benj. W. Snow, Messrs. S. B. Tarrant, E. H. Cassels, Allard Smith, J. B. Alexander, R. J. Willets, F. D. Warner, Wm. Schuman, Theo. Schuman, H. D. Tower, Clyde Warren, W. J. Hase, R. W. Jackman, Percy Tracy, Ernest True, E. A. O'Neil, P. A. Bertrand and Hugo Duke.

THE FLINTS EXTEND THEIR ENGAGEMENT.

The great success with which the Flints have been meeting here in the city as led them to extend their engagement till next Wednesday evening, the last entertainment being given on that night. Last evening's entertainment was a great success; many novel experiments being performed, including that of "fascination." In this state a person is not susceptible to any outward circumstances, the subject last evening being unconscious of the fact that a laddie's hat pin was run through his wrist. Tonight the Flints will give their sensational balloon ascension, which has received so much comment in the papers throughout the country.

LOCAL AND PERSONAL.

—E. Ray Stevens, law '95, goes to Milwaukee this evening on business.

—P. H. Urness, '95, has gone to his home in Mondovi for a short visit.

—Miss Bessie McNany is visiting with friends at the Gamma Phi Beta lodge.

—Charles Rogers, law '95, will spend a few days at his home in Ft. Atkinson.

'93—E. J. Frawley and J. J. Blake are practicing law together at Boise City, Idaho.

—Miss Alice Newbre, ex '97, left Madison today, after a two weeks visit with friends.

—M. J. Dwight Clarke, instructor in farm dairying, will spend Sunday at his home in Milton.

—Myron Williams, of Milwaukee and a student at Beloit college, is visiting Hugo Duke, '98.

—Miss Bertha Kellet, '94, of Neenah, is a guest at the home of Judge and Mrs. Romanzo Bunn.

—Harry J. Noyes, '96, returned from Milwaukee yesterday where he has been ill with the measles.

—Lieutenant Hugh J. Mc Grath, who for several years was commandant of the U. W. battalion, is now located at Fort Sherman, Idaho.

—Dr. O. C. Farrington, Curator of Geology in the Field Columbian Museum, has been visiting his brother, Prof. E. H. Farrington of the Dairy school, for several weeks. He returned to his duties in Chicago today.

The Daily Cardinal.

PUBLISHED DAILY (SUNDAYS EXCEPTED)
DURING THE COLLEGE YEAR.

BY THE STUDENTS OF THE
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Madison, Wis.

Room 7, Democrat Building.

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E. S. HANSON, '97, Asst. Managing Editor.
E. H. KRONSHAGE, '97, University Editor.

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F. V. CORNISH, '96.

REPORTERS.

Amelia E. Huntington, '98.
N. A. Wigdale, '97. Mollie I. Bertles, '97.
L. A. Goddard, '98. F. B. Dorr, '97.
A. Barton, '96. A. C. Shong, '98.
W. H. Shepard, '96. Isaac Peterson, '96.
ALBERT HEDLER, '96, Business Manager.
H. A. SAWYER, '96, Asst. Business Manager.

ATHLETIC DIRECTORY.

Athletic Association.

President—Fred Kull, law, '96.
Vice President—J. C. Karel, law, '95.
Secretary—A. W. Gray, '95.
Treasurer—L. M. Hanks, '89.
Dept. Manager. Captain.
Football—M. J. Gillen, J. R. Richards.
Baseball—C. D. Cleveland, C. H. Kummel.
Aquatic Sports—C. C. Case, Oscar Rohn.
Tennis—J. B. Sanborn.
Field and Track—W. B. Overson,
G. F. Downer.

Boathouse Company.

President—J. B. Kerr.
Secretary—S. H. Cady.

The freshmen who intend to go into
the competitive drill should take ad-
vantage of the offer made by Lieut.
Chynoweth in regard to the use of the
rifles for preliminary practice. Great
improvement can be made in a few
days practice, especially with a little
coaching by an upper classman.

The last number of the University
of Minnesota "Ariel" mentions in a
number of places "the coming debate
with Wisconsin." While we were not
aware of any such debate we would
suggest that it might be well for our
societies to take active steps toward
securing another victory from Minne-
sota.

As has been expected the executive
committee of the Board of Regents has
decided to close the gymnasium hall
during the evenings. There was at
one time quite a demand among the
upperclassmen that they be allowed to
exercise during the evening. The eve-
ning attendance at the gymnasium
has however been so small since the
experiment was begun that the re-
gents could hardly be justified in con-
tinuing it any longer.

One frequently wonders why it is
that sectional clubs are not formed at
the university of Wisconsin. These
clubs are quite common in many of
the eastern institutions where they
form a very important factor in the
life of the students. One of these ob-
jects is the advertising of their uni-
versity in the section of country, from
which the members of the club come.
Each one makes it an object to induce
students in the preparatory schools to

come to that particular university. Of
course, a great deal of individual work
can be done, but as systematic effort
is always better than unsystematic,
a club can do a great deal more than
its individual members could.

"Rockford college has done away
with the old custom, and now has
vacation on Monday instead of Satur-
day. One by one the colleges are mak-
ing this change. All seem pleased by
it.—Beloit Round Table.

Now that Beloit has adopted co-edu-
cation the students can look with com-
placency on such a move. But other-
wise it would have been hard on those
boys who were in the habit of mak-
ing Saturday visits to the Seminary.

INFLUENCE OF COLLEGE-BRED MEN.

Prof. Charles F. Smith has the fol-
lowing communication in The Nation
of January 31:

"The paragraphs in The Nation of
December 20, 1894, making the fifty-
three 'immortals' whose names are in-
scribed on the drum of the dome of
the new house of representatives in
Boston a text for emphasizing the in-
fluence of college-bred men, are whole-
some reading, and seem to have been
much commented on in college jour-
nals. They have called to my mind an
investigation made some years ago to
ascertain what proportion of the
signers of the Declaration of Inde-
pendence and of the framers of the
constitution were college-bred men.

"So far as I could ascertain from
'Appleton's Cyclopaedia of Biography,'
of the fifty-six 'signers' twenty-six
were college graduates, while ten more
received classical training, though they
did not attend college. Of the twenty-
six college-bred 'signers,' Harvard
furnished eight—Samuel Adams, John
Adams, John Hancock, William Ellery,
Eldridge Gerry, R. T. Paine, William
Hooper and William Williams; Yale
four—Oliver Walcott, 1747; Phillip
Livingston, 1737; Lewis Morris, 1746,
and Lyman Hall, 1747; Princeton two
—Richard Stockton and Benjamin
Rush; William and Mary three—
Thomas Jefferson, C. Braxton, and
George Wythe; College of Philadelphia
three—William Paca, Matthew Hop-
kinson, and James Smith; Cambridge
(Eng.) three—Arthur Middleton, Thom-
as Lynch, and Thomas Nelson; Edin-
burgh—John Witherspoon. James Wil-
son studied at Edinburg, St. Andrews,
and Glasgow, and Charles Carroll of
Carrollton at several foreign Jesuit
colleges, as well as law at the Temple.

Of the sixty-one men commissioned
to attend the constitutional convention
thirty-one were college-bred, and five
of the remainder had what might be
called a liberal education, though they
did not attend college. Of these Har-
vard furnished six—Rufus King, Eld-
ridge Gerry, Francis Dana, Caleb
Strong, John Pickering, and Benjamin
West; Yale four—Abr. Baldwin, Jared
Ingersoll, W. S. Johnson, and Wm.
Livingston; Princeton nine—James
Madison, Gurney Bedford, Jonathan
Dayton, Oliver Ellsworth, Luther
Martin, Alexander Martin, Wm. Pat-
terson, W. C. Houston, and W. R.
Davie; William and Mary five—John
Edmund, Randolph, George Wythe,
James McClurg, and J. F. Mercer; Co-
lumbia (King's) two—Alexander Ham-
ilton and Gouverneur Morris; College
of Philadelphia two—Thomas Mifflin
and Hugh Williamson; Oxford (Eng.)—
Charles Cotesworth Pickney; Glasgow
R. D. Spaight; Edinburg, St. Andrews
and Glasgow—James Wilson. Of the
thirty-nine whose names were ap-
pended to the document, seventeen
were college-bred men.

—Ex-Governor Hoard addressed the
dairy students and visiting agricultur-
ists in the City Hall on "How to main-
tain our Dairy Interests" the other
day.

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THE AEGIS.

A New Number Appears—Delay in the
Joint Debate Number.

The expected joint debate number
of the Aegis did not appear today, on
account of delays in the publication,
and so one of the regular literary num-
bers is issued. Mrs. Adams has a
pretty little poem entitled "Love's
Power." It is short but its two verses
are quite charming.

The bashfulness of the student
writers continues unabated and the
leading story of this number is contrib-
uted by "Frank Forest." His "A Love
Match of Long Ago" is a story of
"long, long ago," but its atmosphere is
quite modern. It is a love story a
"co-ed" and a professor, one of the
features of co-education not provided
for in the catalogue. The plot is a
rather novel and fairly well worked
out and the fact that the scenes are
laid in familiar places adds so much
to a story that the introduction of the
chemical laboratory into the days of
"long, long ago" can be forgiven. The
character of the absent minded Pro-
fessor Lornley is one which would have
stood the treatment which a longer
story could have given to it.

"Where Poplars Grow," by Charles
Floyd McClure, is one of the best
poems that has ever appeared in the
Aegis. The element of pathos is very
well managed, especially when it is
told why they do not go "down by the
lake where the poplars grow."

"If it's so much fun, why don't we go
Down there an' play?" Why, don't
you know

'At my little sweetheart, my little
Sue,—

Is dead?
'At's how I'm sayin' 'is to you,
'At's why I said where we 'ud go
'Uz down by the lake where the pop-
lars grow.

There are some good bits of descrip-
tion in the "Oyster Gathering on
Puget Sound," by Susan M. Porter.
Florence E. Baker, '91, contributes an
account of some visitors to the his-
torical library.

"M." has an article on mistakes of
science, particularly one by John
Tyndall. "Juste Jeliu" describes his
roommate for the readers of the
Aegis. One wonders if the roommate
might not also say the same things
about "Juste Jeliu." The doctrine of
communism as set forth in the article
is something which frequently ex-
tends far beyond roommates. Charles
Dudley Warner has a rival in "Weary
Waggles," who comments on the pleas-
ures of vacation in an article headed
"As We Were Saying."

The new college of music, the neces-
sity for a ladies' gymnasium and a

woman regent, and the Aegis prize are
commented on in the editorials.
There is a noticeable improvement in
the alumni department over that of
previous numbers.

CHURCH NOTICES.

Unitarian Church: Rev. W. D. Sim-
onds, Pastor. Morning service and
sermon at 10:30, Subject "Lincoln's
Religion." Sunday School and Stu-
dent's Bible Class at 12 m. Evening
lecture at 7:30 upon "Theodore Par-
ker." Special music at evening service,
by Dr. Everett and others.

Congregational Church:—Rev. E. G.
Udike will preach in the morning on
Truth through Experience. In the
evening on The Teacher, the next in
the series on the Professions. Sunday
School and University Bible class at
12 m. Y. P. S. C. E. at 6:30 p. m.

First Methodist Episcopal Church:
Rev. E. J. Baskerville will preach at
10:30 a. m. on "Christ a Magnet"
After the sermon reception of mem-
bers. Subject for 7:30 p. m. "Man's
only Hope" Sabbath school 12 m. Stu-
dents Bible Class and Greek Class in
connection with Sunday school. Junior
League 4 p. m. Epworth League 6:30
p. m. League Literary, Monday 8 p.
m. General prayermeeting, Wednes-
day 7:30 p. m.

Baptist Church (on Carroll St. next
Park Hotel.) A Judson Kempton,
pastor. Services at 10:30 a. m. and
7:30 p. m. Preaching by the pastor.
In the evening the subject will be Hyp-
notism—Off the Stage. Sunday school
at noon. Classes for all. Visitors are
invited to enter Rev. W. G. Walker's
class in the Life of Christ or the Stu-
dents' Bible Study club, conducted by
Dr. J. C. Elsom. Y. P. S. C. E. at
4 p. m. Subject, Becoming as Little
Children. Leader, Hattie Goetsch.

Christ Presbyterian Church.—Joseph
Wilson Cochran, pastor. The Boys'
Brigade Bible class meets at 9:30
Public worship at 10:30. Communion
and reception of members. Sunday
School and University Bible class at
12 m. The Young People's Society of
Christian Endeavor meets at 6:45.
Evening service at 7:30. Sermon by
the pastor. Theme, Commonplace
People and Their Advantages." The
male quartette will assist in the musi-
cal exercises.

"Just as I Am,"—Beck.
"Nearer My God to Thee,"—Sweeney.

—Mr. Bissele, a colored short course
student from Alabama, addressed
afternoon on "Horticulture in the
South." His talk was well received
and he was elected an honorary mem-
ber of the society.

U. S. DEPOSITORY.

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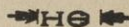
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OFFICIAL NOTICES.

SATURDAY, FEBRUARY 9, 1895.

COMPETITIVE DRILL:—Freshmen who desire to take rifles to their rooms in order to prepare for the competitive drill may procure them from John Hickey, janitor at the gymnasium.
E. C. Chynoweth.

DRAUGHTING ROOMS: At a recent meeting of the Board of Engineers it was decided that the shop draughting room should be occupied by Freshmen in the Electrical and Mechanical Engineering courses. Seniors, Juniors, and Sophomores in the same courses will occupy the large room on the first floor of Science Hall. The committee appointed of desks, requests me to notify those concerned that it will be done Saturday, Feb. 9th.
Forrest R. Jones.

GYMNASIUM:—The following resolution has been adopted by the executive committee of the Board of Regents:

Whereas: The use of the large hall in the gymnasium during the evening, appears to this committee not to have been sufficient to justify the expense of warming and lighting, therefore

Resolved: 1. That, until further action, the main hall of the gymnasium be open in the evening only on Saturdays.

2. That the bowling alleys and the military lecture room be opened on the evenings of Tuesdays, Wednesdays, Thursdays, and Saturdays.
J. C. Elson, Director.

UNIVERSITY BULLETIN.

CO-OP DIRECTORS: There will be a meeting of the Board of Directors of the Co-op Monday evening, Feb. 11, at 7 o'clock in room 25 Science Hall. Important business will come up for consideration
G. E. Williams.

—Herbert F. Ferguson, '97, has been elected assistant business manager of our esteemed literary contemporary, The Aegis.

—The Ninety-Five Badger was not the only annual that created a deficit in the coffers of its class. An assessment has just been made upon the senior class of Minnesota to make good a debt of \$300 that their annual board left behind them.

—The fraternity and non-fraternity elements in the sophomore class at Minnesota are already warring over the election of their Junior Annual Board.

—Miss Alice Freeman Palmer has resigned her position as dean of the Women's colleges at the university of Chicago.

—For the Standard Rapid Writer Fountain, enquire at the Co-op.

—For a good time attend Schimmel's Dancing social at Odd Fellow's Hall, this evening. Students are especially invited.

—Orders for La Mere de la Marquise will be sent for by Co-op Monday evening. Those wishing these books will hand in their orders before that time.

—Another order for athletic goods will be sent from the Co-op to Spalding & Bros. tomorrow night.

—There will be special features each evening at Warner's cycle opening.

—At a meeting of Union College alumni held at Albany this past week, there was considerable discussion concerning the removal of the college from Schenectady to Albany, where the departments of law, medicine, pharmacy and the Dudley observatory are already located. It is not improbably that this step will be taken in the near future.

Do you use a Fountain Pen? Think of the convenience. An article to last a lifetime. Superior and high grade. Drop us a postal. Agents wanted. Rapid Pen Factory, Washington, D. C.

See stock of pens at Co-op.

—A dancing social will be given at the new dancing academy next Saturday evening. University students are especially invited. Ladies admitted free.

LOST.—A cardinal, double-neck sweater in the locker room of the gymnasium, between 5 and 6 o'clock, Wednesday evening. The finder will be suitably rewarded on leaving the same at the office. No questions asked.

—German Dictionaries, second hand, are wanted at the Co-op. Hand them in early so that the manager will know how many new ones to order. Those in need of new dictionaries should order at once, so as to be sure the books will be on hand.

—French and German second hand dictionaries wanted at the Co-op. Hand them in at once so another list of books can be printed.

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Hypnotists and Fun Makers.

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