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The drone bee hatches from the egg in twenty-four days from the date of deposit, the worker in twenty-one and the queen in sixteen.

The Daily Cardinal.

PUBLISHED DAILY (SUNDAYS EXCEPTED)
DURING THE COLLEGE YEAR.

BY THE STUDENTS OF THE
UNIVERSITY OF WISCONSIN

Subscription price \$1.00 per term, \$2.50 per year
in advance.

THE CARDINAL cordially solicits contributions
from all members of the University.
All communications must be accompanied by
the name and address of the writer and must be
received at our office not later than 8:30 p. m. of
the day before they are intended to appear.
Address all matter intended for publication to
the editor-in-chief. All business communications
should be sent to the business manager.
Address,
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Madison, Wis.
Room 7, Democrat Building.

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Treasurer—L. M. Hanks, '89.

Dept. Manager. Captain.
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Tennis—J. B. Sanborn.
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G. F. Downer.

Boathouse Company.

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

If you haven't the time to attend
the meet tomorrow night, buy two or
three tickets anyhow.

To the advocate of good roads the
step taken toward forming an organ-
ization for systematic work is gratify-
ing. There is so much to be done in
this country toward building roads
that it is hard to tell where to begin.
The plan proposed in another column
deserves consideration.

PRIZES FOR ENGINEERS.

The prizes offered by the Engineer-
ing News Publishing Co., for the best
graduating theses submitted by grad-
uates from engineering schools in 1894,
have been awarded as follows: First
Prize of \$75 to the thesis entitled "Re-
port of a Test on a New Design of
Electric Railway Power Station," by
Geo. Wetmore Colles, Jr., Hoboken, N.
J., and Edward Beach Gallaher, New
York city, graduates of the Stevens
Institute of Technology. Second Prize
of \$50 and Third Prize of \$25, divided
equally between two theses (decided
by the judges to be of substantially
equal merit) with titles as follows: (1)
"Some Comparative Tests of Building-
Stones," by Coles A. Raymond, Wau-
seon, O., and Edward W. Cunningham,
Urbana, O., graduates from the Ohio
State University. (2) "Effect of Freez-
ing on Cement and Cement Mortars,"
by Percy L. Barker, Milford, N. H.,
and Henry Allen Symons, Hancock,
N. H., graduates of the Thayer School
of Civil Engineering, Dartmouth Col-
lege.

Honorable Mention, accompanied in
each case by two years' paid subscrip-
tion to Engineering News, is awarded
to the following theses: (1) "The
Friction of Wood Upon Wood at High
Pressures and Its Applications to the
Design of Timber Joints," by Edwin
H. Messiter, Elizabeth, N. J., and Rich-
ard C. Hanson, of New York city,

graduates of the School of Mines, Col-
umbia College. (2) "The Relative Ten-
sile and Adhesive Strength of
Cement," by Louis J. Afferder, Alleg-
heny, Pa., and Robert C. Brown, Pitts-
burg, Pa., graduates of the Western
University of Pennsylvania. (3) "The
Hydraulic Pump," by Robert Ferriday,
York, Livingston County, N. Y., a
graduate of Lehigh University.

A similar list of prizes is offered for
theses this year. Particulars can be
learned by addressing Engineering
News, Tribune Building, New York.

NOTICE TO ATHLETES.

There seems to be considerable retic-
ence on the part of the men who in-
tend entering the trials tomorrow
night in sparring, wrestling and fenc-
ing about writing their names in the
entry, posted on the bulletin board, in
the gymnasium. This may be negli-
gence and modesty, but in any case
the entries must be gotten in at once,
and to those who have not done so
already, names can be written in the
blank on the bulletin or handed to Mr.
Everett, or Mr. Downer.

A HALF DOZEN FOLK.

Gen. Joseph Roberts, of Philadelphia,
was assistant professor of natural
philosophy at West Point when Grant,
McClellan, Burnside and Stonewall
Jackson were cadets.

Adolph Sutro, the populist mayor-
elect of San Francisco, who won the
day as the opponent of the Southern
Pacific railroad, is himself a capitalist
and a railroad builder. He spent, he
says, \$300 to be elected.

The emperor of Russia has four
separate "services" of horses and car-
riages. Fifty horses comprise each
set, and everything more magnificent
in the way of trappings than their
harness can hardly be conceived.

In spite of Verdi's age he tired out
all the artists of Paris by his exacting
rehearsals of "Otello." He kept the
company practicing until 1 o'clock in
the morning, and the weary prima
donna had to give way to her under-
study.

Ellsworth Ingalls, the oldest son of
the Kansas ex-Senator, is local counsel
at Atchison of two Pacific railroads.
Although but 28 he has built up a
good law practice and is already at
the head of the Republican organiza-
tion of his county.

Mme. Marchesi, the veteran teacher
of grand opera song birds, is reported
as very sensitive about receiving
money for her instruction. It 'shocks
her artistic sense.' Her pupils have
to place their tuition fees in an envel-
ope duly indorsed.

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in the world, pay
us a visit of inspec-
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asked to buy,—but
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with the beauties of
these instruments. It
is a saying the world
over, that the sweet-
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CONSTITUTION OF THE UNIVER- SITY CO-OPERATIVE ASSO- CIATION

Article I. Name and Purpose.

Sec. 1. The name of this organiza-
tion shall be the University Co-operative
Association.

Sec. 2. The purpose of this associa-
tion shall be the transaction of a gen-
eral mercantile business for the bene-
fit of its members.

Article II. Membership.

Sec. 1. All persons connected with
the University of Wisconsin, who shall
sign the constitution and pay the re-
quired fees, shall be members of this
association.

Sec. 2. Membership fees shall be as
follows: For each semester, sixty-five
cents (65c); for one year, one dollar
(\$1); life membership, two dollars and
fifty cents (\$2.50).

Sec. 3. Annual memberships secured
during the college year, 1893-94, shall
continue through the college year,
1894-95, and memberships may be ob-
tained for the remainder of the pres-
ent college year, 1894-95, for forty
cents (40c).

Sec. 4. Any member purchasing sup-
plies for others than himself shall for-
feit his membership and be prohib-
ited from future membership in this
association.

Article III. Officers.

Sec. 1. The officers of this associa-
tion shall be a president, a vice presi-
dent, a secretary, a board of directors,
and a business manager, all of whom
shall hold office for one year, or until
their successors are elected and quali-
fied.

Sec. 2. Immediately upon their elec-
tion, the board of directors shall
choose from among their own num-
ber, the president, vice president and
secretary of this association.

Sec. 3. The board of directors shall
be elected by the association at its
annual meeting.

Sec. 4. The business manager shall
be chosen by the board of directors
at least two weeks before the close of
first semester.

Article IV. Board of Directors.

Sec. 1. The board of directors shall
be composed of nine members: three
from the faculty, one graduate stu-
dent, one law student, and one each
from the senior, junior, sophomore
and freshman classes.

Sec. 2. The board of directors shall
choose two of their members to act
with the president of the association
as an executive committee.

Sec. 3. The executive committee
shall audit all accounts, inspect all

business transactions and direct the
business manager as occasion may de-
mand.

Sec. 4. Vacancies occurring in the
board of directors during the year
shall be filled by the board.

Sec. 5. Five shall constitute a quor-
um of the board of directors.

Article V. Business Manager.

Sec. 1. The business manager shall
have charge of the general mercantile
business of the association. He shall
hold all money, and shall, in all finan-
cial operations, be the sole agent of
the association.

Sec. 2. The business manager shall,
before assuming the duties of his
office, give bond in a sum fixed by the
board of directors, which sum shall not
be less than one thousand dollars
(\$1,000), as a guarantee of good faith
for the transaction of the business of
the association.

Sec. 3. The business manager shall
assume his duties on the first Tues-
day in April next, after his election.

Sec. 4. The business manager shall
make a complete and satisfactory re-
port to the board of directors at the
close of his term of office, and at such
other times as the board may direct.

Sec. 5. The remuneration of the
business manager shall be determined
by the board of directors.

Article VI. Meetings.

Sec. 1. The annual meeting of the
association shall be held on the third
Tuesday in October.

Sec. 2. Fifteen members of the as-
sociation shall constitute a quorum.

Sec. 3. Special meetings of the as-
sociation may be called by the execu-
tive committee upon three days' no-
tice.

Article VIII. Amendments.

Sec. 1. This constitution may be
amended by a two-thirds vote of the
members present at any meeting of
the association.

Sec. 2. Notice of such proposed
amendments shall be posted on the
bulletin boards at least three days be-
fore the meeting at which they are to
be considered.

Article VIII. Miscellaneous.

Sec. 1. All powers necessary for
the successful management of the as-
sociation, and not provided for in this
constitution and by-laws, are hereby
vested in the board of directors.

BY-LAWS.

1. Roberts' Rules of Order shall be
authority in all cases not otherwise
provided for by this constitution and
by-laws.

2. Membership tickets of this asso-
ciation shall be signed by the presi-
dent, secretary and business manager.

U. S. DEPOSITORY.

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SENIOR MEETING: There will be a meeting of the Senior class Saturday afternoon, at half past two o'clock, in room 3 University Hall. Important business is to be transacted.

Vroman Mason,
President.

CO-OPERATIVE ASSOCIATION: There will be a meeting of the University Co-operative association, Monday February 18, at 4 o'clock p. m. in the Junior lecture room, in the Law building. Several important amendments will come up for adoption.

By the Executive Committee
L. E. Williams
Prof. Mack
R. E. Smith.

UNIVERSITY CALENDAR.

Friday, February 5.

Athenian and Hesperian societies, University hall, 7 p. m.

Columbian, Forum, and E. G. Ryan societies, Law building, 7 p. m.

Engineer's association, Science hall, 7 p. m.

U. W. Engineers' club, Science hall, 7 p. m.

Pharmaceutical society, North hall, 7:30 p. m.

Saturday, February 6.

Nora Samlag, North hall, 3 p. m.

Mathematical club, Science hall, 4 p. m.

Sunday, February 17.

University Bible classes: Congregational church; Prof. Birge; Baptist church, Dr. Elsom; Methodist church, Prof. Smith; Presbyterian church, Prof. Williams.

Y. M. and Y. M. C. A. meeting, Law building, 4:30 p. m.

QUAINT AND CURIOUS.

New York city has 522 churches of all denominations. These afford a seating capacity for 400,000.

The law of Missouri makes the attending physician liable to indictment who fails to report cause of death.

The deepest running stream in the world is said to be the Niagara river, just under the suspension bridge.

Great Britain buys more than half of all our exported farm products. Her purchases usually exceed \$300,000,000.

Bulgaria has the smallest money supply as compared with the population, \$1.76 per capita, and it is all in silver.

On October 31 the number of national banks in operation was 3,765 with an authorized capital stock of \$672,971,365.

South Carolina is the only state in the union that refuses to dissolve the marital relations for any cause whatever.

A cloth for the head or face was formerly called a coverchief, just as the one for the hand was called a handkerchief.

Kepler firmly believed the moon to be inhabited. He always spoke of the supposed people of that orb as "the Selenites."

A hundred tons of cats' tails were sold in one lot in London recently, to be used in ornamenting ladies' wearing apparel.

The total length of the railways of the United States on June 30, 1893, was 176,500 miles, or, including all "tracks," 230,000 miles.

Fine Chocolates, at U. W. Confectionary.

Lost: An enameled wreath pin set with pearls. Finder please return to Room 18, Ladies' Hall.

For the Standard Rapid Writer Fountain Pen enquire at the Co-ops.

LOST. Bunch of keys on Monday, at noon, between the Gymnasium and Science Hall. Finder will kindly return the same to

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515 State Street.

—Fresh cut flowers for Junior Promenade at Mrs. J. P. Spencer's, Woman's Exchange building.

—Another order for athletic goods will be sent from Co-op to Spalding and Bros. Saturday night.

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

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

—Dress suits for sale at Pantorum.

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Monday, Feb. 18, America's Greatest Actress, **Miss Jane Coombs.** Who will appear in her world renowned character of Juliet, as played by her over 1,000 nights in Shakespeare's Sublime Love Tragedy.

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Fuller Opera House.

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