



The daily cardinal. Vol. IV, No. 67 December 3, 1894

[Madison, Wisconsin]: [s.n.], December 3, 1894

<https://digital.library.wisc.edu/1711.dl/YSX6ORO7MD6K38E>

<http://rightsstatements.org/vocab/InC/1.0/>

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.

The Daily Cardinal.

UNIVERSITY OF WISCONSIN.

VOL. IV.—No 67]

MADISON, WIS., MONDAY, DECEMBER 3, 1894.

[PRICE THREE CENTS.]

FOOTBALL SEASON AT AN END

SECOND ELEVEN DEFEATS MILWAUKEE ATHLETICS.

TH SCORE WAS THIRTY TO NOTHING.

Harvard-Pennsylvania and Yale-Princeton Games—Minor Thanksgiving Games.

A team composed of five of the regular Varsity team and several of the second eleven went to Milwaukee and defeated the Milwaukee Athletic club by a score of 30 to 0. Karel and Alexander played with the Athletics. The game was played in a snowstorm and was very one-sided.

The Athletics kicked off and Richards made the first touchdown in a few minutes but failed to kick goal. On the kick-off Pyre gained fifteen yards and then after good gains by Montgomery and Richards, Cochems gained the second touchdown. Richards kicked goal. Score—Wisconsin 10, Milwaukee 0.

Montgomery made another touchdown before time was called and Richards kicked goal, making the score 16 to 0.

Only 20 minutes of the second half were played. Two minutes after the half began Perkins made a touchdown. Richards punted out but failed on the try for goal. Before the half ended Richards and Montgomery each made a touchdown from one of which a goal was kicked. The game ended with the score 30 to 0.

The teams lined up as follows:

Wisconsin.		Athletics.
Case	right end	Steinel
Pyre	right tackle	Bracken
Ryan	right guard	Nielson
Comstock	center	Paul
Bunge	left guard	Blackburn
Deutcher	left tackle	Carpenter
Major	left end	Parsons
Perkins	quarter back	Canner
Montgomery	r. half back	Karel
Cochems	left half back	Alexander
Richards	full back	Mason

Touchdowns—Richards, 2; Perkins 1; Montgomery, 2.

Goals from touchdowns—Richards, 3. Referr—Alvin Klettsch. Umpire—Hunter.

YALE, 24; PRINCETON, 0.

Yale defeated Princeton Saturday in a one-side contest on the Manhattan field. The game was a great improvement on the Yale-Harvard game as far as roughness was concerned, few players being hurt.

MICHIGAN, 6; CHICAGO, 4.

Michigan and Chicago played practically an even game Thanksgiving day. Chicago secured one touchdown in the first half but failed to kick goal. Michigan made a touchdown and goal shortly before time was called on the second half. Villa, Michigan's left tackle, was hurt and replaced by

Yunt. Price, of Michigan, and Gale, of Chicago, were ruled off. Flint, Chicago's center, did not play, his place being taken by Wyant.

PENNSYLVANIA, 18; HARVARD, 4.

Pennsylvania outplayed Harvard and was victorious by a score of 18 to 4. Touchdowns by Wagonhurst, Osgood and Knipe and a safety by Hayes gave. Harvard's solitary touchdown was made by Waters.

OTHER GAMES.

At Ithaca: Cornell, 10; Lehigh, 6. (Unfinished.)

At Indianapolis: Purdue, 28; DePauw, 0.

At Cleveland: Adelbert, 24; Case, 0.

At Jacksonville: Jacksonville, 8; Normal, 6.

At Washington: Columbia Athletics, 20; Georgetown, 0.

At Chicago: C. A. A., 4; Dartmouth, 0.

At Kansas City: Kansas, 18; Missouri, 12.

At Omaha: Nebraska, 36; Iowa, 0.

At St. Louis: Illinois, 10; Pastime A. A., 0.

At Providence: 16; Massachusetts Tech., 4.

At Richmond: Virginia, 34; North Carolina, 0.

At Nashville: Vanderbilt, 12; Seawanee, 0.

At New Orleans: Mississippi, 8; Tulane, 2.

At South Bend: Albion, 22; Notre Dame, 12.

At Albany: Union, 32; Wesleyan, 6.

At Lexington: Kentucky, 38; Central, 10.

At Columbus: Ohio, 20; Kenyon, 4.

At Cincinnati: Ohio Wesleyan, 16; Cincinnati, 4.

At Dayton: Dennison, 14; Dayton, 6.

At Evansville: Crescent City, 26; Rose Polytechnic, 0.

At Des Moines: Des Moines Y. M. C. A., 6; Grinnell, 4.

At Fairfield: Parsons, 68; Burlington, 0.

At Sioux City: Sioux City, 46; South Dakota, 0.

At Savannah: Georgia, 22; Savannah A. A., 0.

At Galesburg: St. Albans, 0; Knox, 0.

At Springfield, O.: Wittenberg, 34; Otterbein, 4.

At Boston: Boston University, 28; Boston College, 0.

At San Francisco: Stanford, 6; California, 0.

—Mr. J. F. Bold, '94, visited in the city the last few days.

—Mr. T. K. Urdahl, '91, came down from Menomonie, Mich., to spend his holidays.

—The next regular meeting of the University Press club will be held Wednesday, Dec. 12.

—Profs. Barnes and Haskins report themselves as well pleased with the work at the High Schools which they visited last week.

—The Young Men's League of the Presbyterian church cordially invite all students to their social tomorrow evening. An interesting program has been provided.

—The Contemporary club meets next Wednesday evening in the Unitarian church. Miss Lottie Richmond will present a literary paper and Prof. Van Hise one on Early Life on our Planet.

TRUE FUNGI TALKED ABOUT

PROF. BARNES LECTURED LAST WEDNESDAY.

FUNGI OF 35,000 SORTS, AND HOW THEY AFFECT US.

White Mold, Lilac Mildew, and Wheat Rust.

Prof. Barnes lectured on the true fungi last Wednesday. The great proportion are saprophytes and thus they are helpful to us. Few affect our health, yet they affect much that of domestic animals and plants. A few are useful in producing flavors, as in the Rochefort cheese in which the crumbly green spots are caused by the green mold.

There are already 35,000 different sorts of true fungi described. To begin with the common white mold; it often grows upon bread. It has innumerable roots ramifying through the bread and has perpendicular branches that terminate in black knobs.

If it grows on things not readily soluble it alters the solid particles in a sort of digestive way externally. The erect branches are the reproductive organs. The black opical ball is filled with minute spores which escape and float away when the cell walls crack in ripening. These spores are short-lived and die in a few moments unless they strike a growing ground. But it has another method of reproduction. Some branches separate themselves and by uniting at the top form from two cells one large thick-coated spore, that can rest over exigencies of frost or drought. This is a case of conjugation as in the algae.

The lilac mildew, another form of the true algae, grows on the upper and under sides of the lilac leaf. It consists of a multitude of criss-crossy threads resembling felt and is a parasite living on the outside of the host. It has disc-like bodies sending down minute roots and called houstoria. In the mildew we often find yellow spheres that later turn black. These are hollow sphere formed of cells containing three or four sacks that produce from four to eight spores apiece. These bodies are produced by an egg and spermary apparatus and the casing is formed by branches growing from beneath the egg and enfolding it. Another method is the asexual in which spores are abjoined singly one above another on the erect branches. These gradually drop off.

Another example is the wheat rust. This is an internal parasite. The red dust often seen on straw is the spores of this fungus. It is not confined to wheat alone but at different stages grows on different plants. It has ramifying branches running through the leaves of the plant and when the spores are ripe they burst the leaf and escape. The spores will also grow on the barbary leaf and produces a different plant often called cluster cups. The spores of these again will not grow on the barbary leaf but will on the wheat.

THANKSGIVING WEDDING.

Miss Gertrude Eager Wedded at Evansville.

Mr. Lyle Humphrey and Miss Gertrude Eager, '96, were quietly married at the home of the bride in Evansville on Thanksgiving Day. The happy couple returned to Madison Saturday and are receiving the congratulations of friends. The groom is a native of Madison and was educated here, being employed in the office of Burr W. Jones, until his subsequent removal to Evansville, where he has since been engaged in business. Miss Eager is a member of the Kappa Alpha Theta fraternity and is quite prominent in musical work.

BILDUNGSVEREIN.

President Adams has granted the Bildungsverein the use of the west room on the third floor of the law building. Henceforth it will meet in that room on Wednesdays at 7:30 p. m. The first meeting this term will be held December 5th, and the following program will be rendered:

Inaugural Address—Pres. Kroencke.
Declamation—Miss Sauthoff.
Essay—Mr. Jonas.
Reading—Mr. Heyn.

Since there is pressing business to be transacted after the program, it is hoped that all members attend.

All those desiring to join the society should present their names to members, and attend the meeting December 5th to be initiated. There is absolutely no bar to admission and no fee to be paid at any time.

—Will Mitchell, of Milwaukee, is visiting U. W. friends.

—O. E. Crooker, '96, spent his vacation with friends in Chicago.

—E. P. Worden, '92, was in town over Sunday, seeing old friends.

—Martin Warner, '95, received a visit from his father over Sunday.

—O. T. Waite and C. A. Libbey, '97, were at their home in Oshkosh during the vacation.

—Mr. L. B. Stiles, formerly with '96, visited with friends during the holidays. Mr. Stiles is now attending the Milwaukee Normal school and opens the debate between the Milwaukee and Whitewater Normals at the latter place next Friday evening.

Only two weeks remain before examinations and they should be two that will count for considerable to every student. It is natural when a long term is drawing to a close to let work slide to a great extent, even after a good record has been maintained for the early part of the term. This then is the time to make an effort and keep it up till the end of the term. Wrong ideas of a student's work simply an idea of different work is simply because the last few weeks have been neglected. However unfair a criterion this is, experience has shown us that it is a common one. Working hard the last two weeks to make up for lost time is more commendable than a gradual falling off after work above the average for the first two months. Cutting the last days should also be discouraged as they are as important as any of the entire term, summarizing the whole and selecting the essential points to be remembered.

The Daily Cardinal.PUBLISHED DAILY (SUNDAYS EXCEPTED)
DURING THE COLLEGE YEAR.BY THE STUDENTS OF THE
UNIVERSITY OF WISCONSINSubscription 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.The Daily Cardinal,
Madison, Wis.
Room 7, Democrat Building.W. T. ARNDT, '96, Editor-in-chief.
J. B. SANBORN, '96, Managing Editor.
E. S. HANSON, '97, Asst. Managing Editor.
E. H. KRONSHAGE, '97, University Editor.

GENERAL EDITORS.

W. G. BLEYER, '96. H. A. SAWYER, '96.
F. E. BUMP, '96. G. F. DOWNER, '97.
C. A. PHELPS, '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. Shephard, '96. Isaac Peterson, '96.
F. V. CORNISH, '96, Business Manager.
J. F. DOHERTY, '95, Asst-Business Manager.

ATHLETIC DIRECTORY.

Athletic Association.

President—T. U. Lyman, law, '95.

Vice-President—J. C. Karel, '95.

Secretary—Knox Kinney, '94.

Treasurer—L. M. Hanks, '89.

Dept.	Manager.	Captain.
Foot-ball	L. W. Myers,	T. U. Lyman
Base-ball	L. W. Myers,	F. E. Dillon.
Acquatic Sports	C. C. Case,	Oscar Rohm.
Tennis	A. Carhart.	
Field and Track	M. J. Gillen, H. B. Copeland.	

Boathouse Company.

President—J. B. Kerr.

Secretary—S. H. Cady.

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

Some skaters ventured out upon University bay last Saturday, when to all appearances the ice was frail. We have heard of no new accidents as yet however.

We trust the remaining weeks of the term or at least next term may lead to the planning for an interfraternity whist tournament. These have proved very popular in past years, and this year ought to be no exception.

The annual crusade against football has already started in the columns of the newspapers of the country. As far as college men are concerned these football articles have no effect but the persons who are not in college frequently imagine that the editors know what they are talking about and are competent to criticize the game of football. But most of the football editorials are written by men who don't know a tackle from a drop-kick and who write football editorials because it seems to be considered "the correct thing" to do so. Football has not yet been perfected and until it is football players will always be glad of suggestions for improvement but those suggestions to have any weight should be made by men who know what they are talking about.

MICHIGAN'S ELEVEN.

We understand that Michigan considers a game with Wisconsin necessary to the completion of the football season. What reasons Michigan has for so thinking we do not know. A game between Michigan and Wisconsin would not be between the two

best western teams as Michigan is certainly inferior to Minnesota and probably to Purdue. A good victory over Chicago might have given Michigan the right to consider herself entitled to a game against Wisconsin, but a victory with the score 6-4, which is no victory at all over the same team which Wisconsin defeated 30-0 and Purdue 10-6, shows Michigan to be in a class below either Minnesota or Wisconsin. It is it that Michigan would not consider a game with Wisconsin until our team had been out of training for over a week? Why was it that on account of "other games" Michigan was unable to arrange a game with Wisconsin at the first of the season? If Michigan desires to be considered in the east we have no objection but when we play eastern teams we will not select Michigan as a worthy representative of the East.

When Michigan arranged her football schedule all of the games against western teams were regarded as sure victories, or these games would not have been scheduled. Olivet, Adrian, Case and other colleges were defeated, but the University of Chicago nearly upset the calculations for a "victorious" season. As it is Michigan's only defeat has been by Cornell but this cannot give her a high ranking among western teams. Probably Michigan comes about fourth, with Wisconsin, Minnesota and Purdue, in the order given, preceding her. A comparison between Purdue and Michigan is difficult because they have not met but Purdue's defeat of Chicago was more decisive than Michigan's.

—The local chapter of Sigma Chi gave a dancing party at their chapter house Saturday evening.

—Mr. Pyre has assigned topics on Chaucer to be given in class this week. They add great interest to the subject.

—Mr. Wilbur F. Stiles, '93, and Miss Irene Simmons, both of Lake Mills, will be married next Thursday, December 6.

CONVENTION OF COLLEGES.

The sixth annual convention of the Association of Colleges and Preparatory Schools in the middle states was held at Johns Hopkins University, Baltimore, on Friday, Nov. 30th, and Saturday, Dec. 1st. Dr. Patton is the president of the association and delivered an address before the convention on Friday evening. Friday forenoon was devoted to the reading of papers on the "Place and Teaching of History and Politics in School and College," by Prof. James H. Robinson of the University of Pennsylvania, and others. In the afternoon there was a discussion of the report of the committee on the requirements for entrance examinations in English.

CHICAGO RIVALS.

The Chicago Rivals have arrived in the city and are registered at the Park. They will appear at the M. E. church this evening, giving the third number in the City Lecture course. The company is composed of the best musical artists, and a first-class entertainment is assured.

—Students can have a good time with their friends at the new dancing academy in charge of Wm. R. Schemmel.

—Students wishing to form a private class can have Prof. Kehl's hall and services if desired at reasonable rates.

M. S. KLAUBER & Co.,

22 EAST MAIN STREET,

FINE TAILORING AND FURNISHING GOODS.**M. J. Cantwell,**Fine
Society
Printing.No. 114
King St.**JOB PRINTING.**

A Summer Night,
A Pretty Girl,
And above all a

Washburn

Guitar,
Mandolin
or Banjo—
make life worth
living.

If you are not thoroughly conversant with the qualities that make the Washburn instruments the best in the world, pay us a visit of inspection. Visitors are not asked to buy, but you will be charmed with the beauties of these instruments. It is a saying the world over, that the sweetest music requires a Washburn.

Prices from
\$22
Upward

A Complete Catalogue sent Free upon Application.

J. PARK & SONS,
309, Via.

**Henry Clay
Junior**

Camera.

Of course it's good. Most as good as our \$55 Henry Clay. Can't specify here. Can only quote price.

4 x 5 size, \$30
5 x 7 size, \$38

Send for description.

Scovill & Adams Co.,
423 Broom Street, New York.

GO TO **W. HOGGIN** and get your
clothes
thoroughly **Cleaned, Dyed and Repaired**
414 W. Gilman.

—**HIGH CLASS**—
HATTER and FURNISHER,
SIDNEY P. RUNDELL,
7 EAST MAIN ST.

PURCELL,
—**DENTIST.**
Special Rates to Students
WEST CORNER CAPITOL PARK.

**CHAS. J. SPETH,
The New Clothing Store**

AT 228 STATE ST.

Special Rates given to Students
CALL AND BE CONVINCED.

Madison Book Bindery.
G. GRIMM, Journal and
Democrat Blks.**Christmas
Greeting. 1894**

Students during vacation, are cordially invited to make our store their headquarters, and inspect our elegant line of College Outfits, Sweaters, Foot Ball Goods, Skates, Imported Hose, Cameras, Golf Clubs, etc., etc.

A. G. SPAL INC & BROS.,
147-149 Wabash Ave., Chicago.

BUY YOUR
Perfumery,
Combs, Hair-brushes and
Fancy Goods at
CLARK'S DRUG STORE.
Good goods at fair prices.

ALICE J. GOETSCH, M. D.
Physician and Surgeon.
Special attention given to diseases of women
and children.
Dick's Block cor. King and Doty Sts.
OFFICE HOURS: 9 to 11 A. M., 1 to 4 and 7 to 8 P. M.
DR. MILA B. SHARP,
LADY PHYSICIAN.

OFFICE: Pioneer (Vilas) Block.
OFFICE HOURS: 9 to 12 A. M., 2 to 6 P. M.

DR. E. EVERETT,
EYE, EAR, NOSE & THROAT.
OFFICE: Pioneer (Vilas) Block.
HOURS: 9 to 12 A. M., 2 to 5, and 7 to 8 P. M.
and by appointment. Sundays 9 to 10 A. M.,
12 to 1 P. M.

DR. LINDSEY S. BROWN,
AND
EYE INFIRMARY. EAR
Room 2, Brown's Block, Madison, Wis.
Office Hours: 9 to 12; 2 to 6; Sunday 12 to 1.

Northwestern EYE and EAR Infirmary.
Surgical and Medical disease
of Eye, Ear, Nose and Throat
treated. Spectacles adjusted
and Artificial Eyes inserted.
W. C. ABALY, M. D., MADISON, WIS.
Ten Years in the City.

FREE. THIS WEEK we will GIVE
AWAY
500 SAMPLE COPIES OF OUTING.
MENGES,
Druggist and News Dealer.

Orders for Rubber Stamps
of all kinds taken at
THE COLLEGE BOOK STORE.
429 State St. MADISON, WIS.

JAMES O'CONNOR. **EDWARD WILLIAMS, PH. G.**
O'CONNOR & WILLIAMS,
PHARMACISTS,
No. 1 WEST MAIN STREET,
Dealers in pure drugs, chemicals, toilet articles,
brushes—in fact, everything usually sold in a
modern Pharmacy. Solutions for amateur pho-
tographers prepared at reasonable rates. Prescrip-
tions carefully and accurately compounded by
Mr. WILLIAMS, U. W. Phar., '93.

EDWIN SUMNER
Palace Pharmacy.
DRUGS AND SUNDRIES.
MICROSCOPIC ACCESSORIES and MATERIAL

H. LEWIS,
DRUGGIST,
Stationery and Toilet Articles
Cor. State and Gilman Sts., Madison

HOLLISTER'S PHARMACY.
We have the most complete Pharmacy in Wis-
consin, and carry the finest line of
CRUDE DRUGS, CHEMICALS, PERFUMES,
CIGARS, SURGICAL INSTRUMENTS, ETC.
University Students will find our stock complete,
and will receive courteous treatment. We can
supply at jobbing prices all Microscopical and
Biological Supplies. We aim to please, and invite
your patronage.

U. W. WISCONSIN
College Class
FRATERNITY PINS.
Bunde & Upmeyer,
MANUFACTURING JEWELERS,
121-123 Wisconsin St., Milwaukee, Wis.
The U. W. Pins sent to any address on
receipt of 75c.

MANY NEW BOOKS.

Mr. Smith reports that the evening
opening of the university is a great suc-
cess. All day long the library is full
of earnest workers and there are many
times during the day when there are
not seats enough. The evening at-
tendance averages between 25 and 30.
Many have taken out cards but not
so many as was expected.

New books are constantly being re-
ceived. We give below a complete
list of the most important books re-
ceived lately:

Adams—Massachusetts, Its Histor-
ians and History.
Arnold Matt—Study of Celtic Litera-
ture.

Arnold Matt—Discoveries in Amer-
ica.
Arnold Matt—Essays in Criticism.
Arts and Crafts Essays—Ed. by W.
Morris.

Baker, Ira O.—Engineers Surveying
Instruments.

Brooke, Stopford A.—Tennyson.
Chaucer, Geoffrey—Complete Works
Edited by W. Skeat.

Cotterill—Lessons in Applied Me-
chanics.

Dante Alighieri—Divine Comedy,
tr. by J. W. Parsons.

Davis, J. P.—Union Pacific Railroad.

Dodge, Theodore—Great Captains.

Euripides—Bacchanals and Other
Plays, tr. by H. H. Milman and M.
Woodhull.

Flint, Rob—History of the Philoso-
phy of History in France.

Fourier, Jos.—Analyt. Theory of
Heat.

Froude—Ja Aut.—Thomas Carlyle.

Giekie Arch.—Geological Sketches.

Gerhard, W. R.—Gas Lighting and
Gas Fitting.

Guerber, H. A.—Myths of Greece
and Rome.

Hammersten, Olaf—Test book of
Physical Chemistry.

Herbart, J. F.—Science of Education.

Hinsdale, B. A.—How to Study and
Teach History.

Hobbs, F.—Leviathan, Ed 3.

James, W.—Principles of Psychology,
2 Vol.

Jevons, W. S.—Logic.

Jones, H.—Browning As a Phil-
osophical Religious Teacher.

Kayser, E.—Test Book of Compara-
tive Geology.

Leaf, Wa.—Companion to the Ilead.

Livins—History of Roman Lit-
erature tr. by D. Spillan.

Lotze, H.—Outlines of Aesthetics,
tr. by G. T. Ladd.

Lovell, D. H.—Practical Switch work,
Ad. 4.

Mach, Ern.—Science of Mechanics.

Madison, Ja.—Journal of the Fed-
eral Convention.

Mahan, A. T.—Influence of Sea
Power upon History.

Mahan, A. T.—Influence of Sea
Power upon Tr. Rev. Empire.

Malory, T.—La Morte d'Arthur—Ed.
E. Strachey.

Martin, T. C.—Inventions and Writ-
ings of Nikola Tesla.

Moore, G.—Modern Paintings.

Morris, C.—Civilization.

Noll, A.—How to Wire Buildings.

Patton, W. M.—Practical Treatise on
Foundations.

Phelps, W. Lyon—Beginning of the
English Romantic Movement.

Rensen, Dans—Primary Elections.

Rowbothan, J. F.—History of Music.

Scherer, Edmond—Essays on English
Literature.

Searles, W. H.—Field Engineering,
Ed 16.

Shaler, Nath. S.—Interpretation of
Nature.

Stevens, C. E.—Sources of the Con-
stitution of the United States.

Taine, A.—Modern Regime, tr.
by J. Durand.

Tozer, H. T.—Classical Geography.

Van Brunt, H.—Greek Lines.

Walker.—Three Centuries of Scot.
Literature.

Weisbach, Phil. Jul.—Manual of Me-
chanics of Engineering.

Weisbach and Herman—Mechanics
of Hoisting Machines.

White, G.—Ballades and Rondears.
Willert, P. T.—Henry of Navarie.
Scripture, Edu. W.—Studies from
the Yale Psychological Laboratory.
Hafercom, H. E.—Complete set of
Handy lists of Technical Literature.
Sweet, H.—Anglo-Saxon Reader.
Richards, J.—Manual of Machine
Construction for Engineers.
Stille, Alf., Maisch, J. M.—Caspari C.
National Dispensary of U. S. of
America.

Complete Set of Rob. Browning's
Poetical Wrks.

Aristoteles—First Book of Metaphy-
sics, tr. by a Camb. Graduate.

Benjamin, R. M.—Principles of the
Law of Contract.

Besant, W. H.—Treatise on Dyna-
mics.

Bible—Douay ed.

Brooke, W. K.—Genus Salpa. Text
Slates.

Campbell, E. L.—Science of Law.

Carhart, Dan—Field Book for Civil
Linguistics.

Clevenger—Treatise on Government
Surveying.

Cremona—Graphical Statics.

Cushing—Treaty of Washington.

Dodge—Alexander Hanabal, Caesar.

Giekie—Class Book of Geology.

Grant—Odontics or—

Greaves, J.—Treatise on Element
Statics.

Hill—Genetic Philosophy.

Jenks—Constitutional Experiments
of the Commonwealth.

Jackson—

Jackson—

Browne—Students' Hand Book of
Geology.

Browne—Physical Geology.

Lakes—Geology of Col.

Lockyer—Movements of the Earth.

McCerel—Teeth of Spur Wheels.

McPherson—Hand Book of Politics,
1894.

Ochorowicz—Mental Suggestion.

Oman—Europe 476—118.

Parkinson—Element Treatise on Me-
chanics.

Piersol—Test Book Normal Histology.

Smith—Moral Sentiments.

Snow—International Law.

Zimmerman—Botanical Microtech-
nique.

Remington—Pratice of Pharmacy.

Coblenty—Hand Book of Pharmacy.

Davis—Element Meterology.

Falconer—Mushrooms.

Complete set of Publications of the
American Public Health Association
in 19 vols.

A set of the great Greek lexicon.

Stephenus—Thesaurus Graecae Lin-
guae in 9 vols.

A set of the works of Bossuet in 11
vols.

COTRELL & LEONARD
Makers of CAPS and GOWNS to
American Universities.
Gowns range in price from \$3 to \$15
472-474 Broadway, Albany, N. Y.
Illustrated Treatise, samples, etc., upon ap-
plication.

BILLIARD ROOM
AND RESTAURANT.
St Julien
European Hotel
COR. MAIN AND PINCKNEY
STREETS. MADISON, WIS.
THOMAS MORGAN PROPRIETOR.

HINRICHS & THOMPSON,
STAPLE AND FANCY
DRY GOODS.
New Fall and Winter Stock.
Lowest Prices Guaranteed.
27 E. MAIN ST.

New York Store.



Dry Goods,
Carpets.

NELSON & HENDERSON,
—THE—
CLOTHIERS, HATTERS,
AND FURNISHERS.
Class Hats and Canes to Order.
No. 1 S. PINCKNEY ST.

MALEC BROS.

Manufacturers of

Footwear

Athletic Goods
and Repairing
a specialty.
326 State St.



WISCONSIN
ACADEMY.

Accredited to all courses of the University.

Special Instruction to Students behind
in their college work.

Turkish, Russian, Needle,
AND MEDICATED BATHS.

Open Every Day (except Sunday) for
Ladies and Gentlemen.

WENGEL & MATSON, Props.,
111-113 S. Carroll St., Madison.

U. S. DEPOSITORY.

FIRST NATIONAL BANK
OF MADISON, WIS.

Capital, \$100,000. Surplus, \$100,000.

N. B. VAN SLYKE, Pres. WAYNE RAMSAY, Cash.

M. E. FULLER, V. Pres. M. C. CLARKE, Asst. Cash.

New Dancing Academy.
WM. R. SCHIMMEL,
OF MILWAUKEE.

For Students and their Friends Only.
Odd Fellow's Hall, Saturday
Evenings.
Prices Reasonable. Leave name and address
at Menges' Drug Store.

CHICAGO,
MILWAUKEE
AND
ST. PAUL R'Y

With its 6,100 miles of Thoroughly Equipped Road,
reaches all principal points in

Northern Illinois, Wisconsin, Iowa,
Minnesota, South Dakota, North Dakota,
Missouri and Northern Michigan.

THE ONLY LINE
Running Electric Lighted and
Steam Heated
Festibuled Trains.

For information as to rates and routes apply to
any ticket office in person, or write to

W. W. HEAFFORD,
Dist. Pass. Agent,
MILWAUKEE, WIS.

NELSON W. PIERCE,
Agent, Madison, Wis.

CALL AT
19 W. MAIN.

SCHUBERT & SON'S NEW STUDIO. FINEST CABINETS \$2.50 PER DOZ.

OFFICIAL NOTICES.

DECEMBER 3, 1894.

COMPARATIVE PSYCHOLOGY.

The class will read both volumes on the Development of the Child as its work for the remainder of the term. The final examination will include this book as well as the lectures that have already been given.

Joseph Jastrow.

GYMNASIUM.

Students of the freshman and sophomore classes who have not had a physical examination, will report at once to the director for an engagement for such examination.

J. C. Elsom, Director.

Locals under this head i.e. a word

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

BADGER BOARD: The literary committee will meet as usual tomorrow (Tuesday) at 6:30 p. m. Board meeting Wednesday evening.

LOST: A Wirt fountain pen with initial "B" on end of barrel. Return to Badger box, Main or Science halls.

—Remember the social given in Odd Fellow's hall on Saturday evening, Dec. 8th. Leave your name at Menge's Drug Store if you want to join the class.

—Students can learn the Two Step in one lesson by calling on Prof. Kehl.

STUDENTS.

We keep constantly on hand the best and purest confections, fruits, canned goods, etc. Reduced prices to sociables, parties, and students' clubs.

Purcell Bros.

—CUT FLOWERS for all occasions at the Woman's Exchange. Large orders a specialty. Greenhouse, 438 West Clymer street.

WANTED—First class room and board for three. Front room with alcove or two rooms adjoining. North of State street preferred. Address—"Student" care of Cardinal.

**BANQUET LAMPS,
DRESDEN CHINA,
RICH CUT GLASS,
FANCY WARES,**

For Christmas Gifts

AT
H. B. McCOWAN'S,
Successor to
J. H. D. BAKER & CO.

For Strings,
Sheet Music,
Bohman Mandolins,
Harmony Mandolins,
Martin Guitars,
Capital Banjos, and
Other Musical
Instruments

**WARNER'S
MUSIC
STORE.**

27 W. Main
Street.

CONOVER & PORTER,
ARCHITECTS
BROWN BLOCK, - MADISON, WIS.

Daubner's Pharmacy

-FOR-

**Anti-Stiff and Foot Ball
Liniment.**



**GLASSES
FITTED
CORRECTLY**

And Guaranteed to Suit at Small Cost.

DR. L. B. HILBORN,
Optician and Refractionist,
Over German-American Bank,
Madison, Wis.

NO CHARGE for CONSULTATION.

**HENRY PECHER,
BARBER SHOP
AND BATH ROOMS.**
414 STATE.

HESS & SCHMITZ,
Students' Favorite Livery,
508 State St. Telephone No. 53.

**Loehrer & Anderson,
STUDENTS LIVERY.**
Cor. State and Henry Streets.

**E. R. CURTISS,
Photographer,**
VILAS BLOCK, } Madison, Wis.
ELEVATOR.

LADIES' HAIR DRESSING PARLOR.
SHAMPOOING.
Ladies' and Children's Bangs Cut and
Curled in the Latest Style.
• WIGS TO RENT. •
12 South. Carroll Street.
Next to Park Hotel

**THE U. W.
Cigar and Tobacco Store**

—FINE—
Imported and Domestic Cigars.
RAY W. FREEMAN,
330 State St. Madison, Wis.

**TEMPERANCE
Billiard and Pool Hall.**
B. BOORMAN, 326 STATE.

At J. D. Hackel's, 309 State St.
You will get good FOOTWEAR
AND REPAIRING NEATLY DONE.

GO TO OLSON
for Choice Fruits, Confections or Cigars.
Dolls, Toys and Xmas Novelties.
7 NORTH PINCKNEY ST.

U. W. STUDENTS!

Our Stock of Shoes is New.
The Latest Styles.

GYMNASIUM and BASEBALL SHOES.
ELVER BROS.,
120 State St.

New Restaurant.

Single Meals 20c.

GEO. M. JOHNSON,
NO. 141S. CARROLL.
Women's Exchange Old Stand.

GO TO THE

BON TON for

**FINE
CANDIES,**

Put up in 1, 2, 3, 4, 5 lb. Boxes.

E. P. COPP,

—DEALER IN—

**Watches, Clocks,
Jewelry & Silverware.**

Repairing and Engraving Neatly Done.
105 E. Washington Ave., Madison, Wis.

TRUNK FACTORY

Trunks and Bags made to order.
REPAIRING A SPECIALTY.
DEXTER CURTISS.

L. W. GAY,

—TAILOR—

Dress Suits a Specialty
North Pinckney Street.

**ERICKSON & HANSON,
Custom Tailors.**

Fine Line of Fall and Winter Suitings.
ALSO AGENTS FOR
WANAMAKER & BROWN.
120 E. MAIN.

F. PECHER

State Street
Clothier.

**HATS, CAPS and GENTS' FURNISH-
ING GOODS.**
—416 State Street.

**M. H. GAY,
Students' Merchant Tailor,**
A Fine Line of Trouserings.
302 STATE STREET.

Geo. Kraft, 224 State St.
**Plumber,
Steam &
Gas Fitter**
**Largest
Assortment
—OF—
Chandeliers.**



Mrs. Klusmann-Cleason,
**Fashionable
Millinery.**

20 E. Mifflin St., MADISON, WIS

**PROF. KEHL'S
DANCING CLASS**

Meets at his new Academy, 21-23 W.
Main St., every Tuesday evening.
Social Hop every Saturday Evening
Special rates made to Students. Private
Lessons given. Hall furnished for parties.

TEACHER OF VIOLIN,

Violoncello, Mandolin, Guitar
and other instruments; also,

Musio Furnished for All Occasions.
Prof. CHARLES NITSCHKE,
Musical Director of the First Regiment Band,
135 South Butler St.

**F. F. F. STEAM
LAUNDRY.**

**LYONS & DAUBNER,
PROPRIETORS.**

ALFORD BROS.

STEAM LAUNDRY.

113-115 North Carroll St.

Office, 3 E. Main St., MADISON, WIS.

A. C. NIELSON,

PHOTOGRAPHER.

23 South Pinckney St., Madison, Wis.

Finest Cabinets \$3 per doz.

MISS FRANCES COYNE,

FASHIONABLE MILLINER,
SPECIAL RATES TO STUDENTS.
—N. Pinckney St. MADISON, WIS



**THE DIRECT ROUTE TO
CHICAGO**

Making close connections with
Fast Vestibuled Trains
AND
Through Sleeping Cars

TO
**Council Bluffs, Omaha,
Sioux City, Denver,
Portland, San Francisco**

And all principal cities of the

WEST AND NORTHWEST.

For Tickets, Time Tables and full infor-
mation apply to Agents

CHICAGO & NORTHWESTERN R.Y.
And Connecting Routes.

W. H. NEWMAN, J. M. WHITMAN, W. A. THRALL,
3d Vice-Pres. Gen'l Manager, Gen'l Pass. and
Ticket Agent

A Full Line of Athletic Goods. Fine Tailoring a Specialty.
OLSON & VEERHUSEN, Pinckney Street.