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The Daily Cardinal.

UNIVERSITY OF WISCONSIN.

VOL. IV.—No 74]

MADISON, WIS., TUESDAY, DECEMBER 11, 1894.

[PRICE THREE CENTS.

WHAT THE FACULTY DID

A COMMUNICATION FROM FIELD COLUMBIAN MUSEUM.

ARRANGEMENTS FOR NEXT WEEK'S EXAMINATIONS.

Reception to State Teachers' Association.

At the faculty meeting yesterday afternoon a schedule of the examinations, substantially the same as that of last year, was adopted. Preliminary steps were taken looking towards the reception to be given by the faculty of the university to the State Teachers' association which will be held in this city December 26, 27 and 28.

Invitations were received from the University of Chicago to attend the Convocation on the second of January. About fifteen members of the faculty announced their intention of being present. A communication from the director of the Columbian Field museum, in which announcement was made concerning the establishment of several scientific departments and the facilities of the institution for the purpose of class instruction extended to this university received the attention of the faculty.

HISTORICAL SOCIETY.

Annual Meeting to Be Held Thursday Evening.

The 42d annual meeting of the State Historical society of Wisconsin will be held on the evening of Thursday, December 13, commencing at 7:30 o'clock prompt. President John Johnston will occupy the chair.

In addition to the usual administrative and financial reports, Vice President Butler will read a paper on Early Shipping on Lake Superior, and the following monographs will be presented by title, and published in the printed proceedings:

The Helena (Wis.) Shot Tower: an Historical Sketch, by Orin G. Libby, M. L., fellow in history. University of Wisconsin.

The Free-Soil Party in Wisconsin, by Theodore C. Smith, M. A., fellow in History, University of Wisconsin.

Upon the close of the meeting there will be a brief meeting of the executive committee, of which curators and other officers are members.

CHORAL UNION.

An unusually large number attended the rehearsal of the "Creation" last evening. Pres. Adams presided over a short business meeting in which a motion was passed providing for the purchase of a book for the permanent record of the minutes of the society.

Prof. Parker was beaming with satisfaction at the thoroughly earnest and enthusiastic manner which characterized the practice and both leader and chorus did justice to the production. Much time was given to mastering some of the harder points so that the general effect might be enhanced.

COLUMBIAN FIELD MUSEUM.

The great project of which Marshall Field was the leading spirit in other as well as financial ways is now realized in the scientific treasures gathered at the Columbian Field museum. The Anthropological, Geological Botanical, and Zoological departments are well equipped and are in charge of curators of admitted ability and prominence in their special sciences.

It is the intention of the trustees of this institution to make the museum peculiarly adapted and attractive to the working teacher and student. They have placed at special disposal any of the exhibition or lecture halls and the vast collections of specimens to be used freely by those who desire their benefits. The director expresses his pleasure in making arrangements for a class or any particular number of students who anticipate visiting certain departments so that the respective curators of those departments may be present and render any possible assistance. Their co-operation is assured in extending these privileges at all times to scholars, faculty members and students.

MOCK TRIAL.

About a week ago Guy Dodge, of the junior law class, shot ten tame geese, belonging to a farmer near Madison. Wednesday evening of this week, starting at 7 p. m. sharp, Mr. Dodge will be tried before the junior law class on an information for malicious mischief, drawn up by Dean Bryant of the Law School. The trial will probably be held in the Senior Lecture room. Kull and Onstad are attorneys for the state, and Spooner and Leish for the defendant. Each side has retained a number for counsel to assist in looking up the law. A jury of twelve will be impanelled to hear and decide the case.

PRESS CLUB.

The University Press club will meet for the last time this term on Thursday evening in North hall. The program will include several papers and discussions by members of the club. An opportunity will be given for all intending to join but have not as yet done so, to become members of the club.

ECONOMICS IN PUBLIC SCHOOLS

Professor Patten, of the University of Pennsylvania, wants political economy taught in the public schools. In a paper before the American Academy of Political and Social Science, he urges that among the easy principles of political economy which could be taught to children are: The harmony of consumption, or the advantage to be gained in the consumption of articles in groups rather than singly; the effect of the ejection of discordant elements from our consumption; the principle that group pleasures should be preferred to individual pleasures, and the right of society to eliminate elements discordant to it. All these principles, he said, rest on the fact that a child's interests are in the present, and that his conduct is influenced by his pleasures and pains.

SEMI-SCIENTIFIC GHOSTS

THE THEORY OF THE FOURTH DIMENSION.

PAPER BEFORE THE LITERARY CLUB BY PROF. COMSTOCK.

The Mathematical Basis of Spirits—Proof Not Available.

The Madison Literary club held its regular monthly meeting last evening at the home of Mrs. S. L. Sheldon. The paper of the evening was given by Professor George C. Comstock. His subject was A Semi-Scientific Account of Ghosts.

Professor Comstock in part said that the cultured portions of mankind within little more than a century have passed from an all but universal belief in ghosts to an all but universal denial of their existence. But in its broader meaning the word ghost includes that whole range of ideas represented at one extremity by spook, at the other by spirit, and the purpose of Prof. Comstock's paper was to present the application of certain mathematical speculations to this class of ideas and to show that a mathematical explanation of most spiritual phenomena may be constructed along strictly scientific lines.

The mathematical basis, continued the paper, of the explanation is the supposition that the extent of space is not limited to length and breadth and thickness but that there is a fourth dimension at right angles to these three which we can not perceive because we have no bodily organs which move in it. The geometry of this fourth dimension has been worked out by the mathematicians and some of their conclusions are embodied in the definition of ghosts, as conscious beings who have access to, and use of, this dimension. The power and freedom of movement which access to this dimension confers are illustrated by a comparison of the capabilities possessed by a human being with the limited powers of a mannikin, supposed to be a conscious being limited by his bodily structure to movements in length and breadth but destitute of any conception of the thickness of things. Ghosts appear in and vanish from our world of three dimensions by coming from and going to the fourth dimension. They do not pass through closed doors but around them through the fourth dimension.

Ancient writings and particularly the new testament, said Professor Comstock, seem to contain some dim apprehension of this fourth dimension and the language of the Apostle Paul, with reference to spiritual things, is at times strongly suggestive of it.

At many points modern physical science seems to indicate the real existence of a fourth dimension of space, and the paper suggested that at some time it may enable us to prove its existence or non-existence, but until such proof is available this explanation of ghosts must be considered as only semi-scientific.

The paper was discussed by many

of those present in an interesting manner. After the literary feature of the program, refreshments were served.

AT CHICAGO'S CONVOCATION.

A Conference on History, Political Science and Economy and Sociology.

Two very interesting events in connection with the University of Chicago occur during the first week of January, 1895. In accordance with a desire expressed by representatives of various colleges and universities in the Mississippi valley, a conference of teachers in the department of history, political economy, political science and sociology will be held at the time of the January convocation of the Chicago university.

President Seth Low of Columbia college will deliver the Convocation address on "The University and Its Relation to Questions of the Times."

It is expected that a large number prominent in educational lines will be present. Ample provisions will be made for the comfort of persons attending and cordial invitations to be present and take part in the conference have been sent out.

On Wednesday, January 2, President W. R. Harper will deliver the address of welcome and on the following day there will be two conferences, one in the forenoon on methods of teaching political economy and political science and the other on Local Fields of Investigation. The discussions will be led by Prof. J. Laurence Laughlin and Jesse Macy, Iowa College; Profs. F. J. Turner, University of Wisconsin, and H. C. Adams, University of Michigan.

IMPROVEMENTS AT STANFORD.

President Jordan, of Leland Stanford, Jr., University, has given an outline of the improvements contemplated at the university of Mrs. Stanford as soon as the courts allow. Upon the distribution of the estate of the late Senator Stanford about \$3,000,000 will pass to the university. The remainder of the estate will come under Mrs. Stanford's control, which she will devote to the institution during her life, and bequeath to it at her death. A handsome library building, to cost \$150,000, is what Mrs. Stanford wishes to commence in the spring. An exact duplicate of this building will be built 100 feet away, to be devoted to a museum and laboratory for the natural history department. These buildings will stand in front of the present quadrangle, and, as the building plans are carried out in the future, will be connected by other buildings, which, with a monumental arch 86 feet high in the center, will constitute the facade, 1,000 feet long, of a group of buildings, and will be part of the outer quadrangle, which will inclose the present one. Other buildings to be erected are a memorial chapel, a girls' dormitory to cost \$250,000, and a chemical building to cost \$50,000. It is proposed that the present facilities be tripled during the next two years, providing accommodations for 2,500 students.

—Those who have been trying for the freshmen crew this fall will go into training in the gym at the opening of next term. Capt. Rohn will coach the men.

The Daily Cardinal.

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DURING THE COLLEGE YEAR.

BY THE STUDENTS OF THE
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The time table for examination for this term appears in another column. The arrangement is much the same as that of last year.

The Press club will hold its last meeting of the term on Thursday evening and all those intending to join can take this opportunity to do so.

A special Christmas number of the Cardinal will be issued on Saturday, Dec. 15. It will be a double number and will contain pictures of the football team, the armory and gymnasium. There will also be a review of the football season and of all departments of athletics in addition to the usual sketches, poems and stories.

The plan of announcing elective courses for next term, which is being adopted by some of the professors is an excellent one. The announcements in the catalogue are for the most part brief and hardly give an adequate idea of the scope of the different courses. Frequently students are undecided in regard to their elective work and if such work is outlined before by those under whom it will be given the student is given a better opportunity to decide on their elections.

A meeting of the Athletic association for next Friday at 4 p. m. has been called. As this is the annual election of officers it is none too early for the students to begin the consideration of the various candidates for officers and directors. The men who have been chosen in the past have usually done well and the members of the association should see that only good men go on in the future.

WHAT ILLINOIS WANTS.

The following article in one of the Chicago papers shows that the University of Illinois will not be backward in her requests from the legislature:

"The board of trustees of the University of Illinois will make some requests of the next legislature. They have recently been in session and the subject of appropriations was considered. The chief things to be asked for will be a library building and auditorium or chapel. For the last five years every available inch of room of the present library quarters has been utilized, and it has been actually necessary to leave thousands of volumes packed away in their cases in the storage rooms. A library building was a necessity two years ago; it is indispensable now. So far as a chapel is concerned, that is also an actual necessity, for the present chapel has not sufficient seating capacity for the increased number of students. An appropriation of \$250,000 will be asked for such a building. The various collections of the university are scattered about the different buildings, and a museum is desired; one to cost, perhaps, \$80,000. At least, that is the amount requested. The next request will be for \$80,000 for the annual running expenses of the institution. A request will also be made for \$40,000 for a dairy building in connection with the agricultural experiment station. Then appropriations will be asked for the construction of a central heating plant the furnishing of engineering hall, a theoretical and applied testing plant, an observatory and telescope, the total amounting to perhaps \$800,000. While this amount appears enormous, yet the university people do not consider it extravagant, and will have the co-operation of the friends of the university in pressing the claims before the legislature."

FREE TUITION AT CORNELL

The apportionment article in the new constitution of New York State adopted at the recent election brings up a question of grave importance to Cornell University. The charter of the university, received from the State of New York, provides that "the institution shall annually receive students, one from each assembly district of the state free of any tuition fee or of any incidental charges." As there were 128 districts this was, at the time of its enactment, generally interpreted to mean that Cornell should receive 128 students free of charge. But it was afterward demanded that the university receive one student from each assembly district each year. In spite of the fact that the State of New York had never given her a cent of its own money Cornell acquiesced in this demand. If the same rule were applied to the twenty-two new assembly districts provided for by the new constitution it would mean eighty-eight more students to be educated free of charge each year by the institution. As each student costs the university at a low estimate \$300 each year this will mean additional outlay of over \$26,000 or a sum more than five times as great as is paid to any university professor.

President Schurman states positively that such a load will be more than the university can bear and that if she is compelled to assume it it will be necessary to curtail some of the departments unless the state will do the tardy justice of assuming at least this added burden.

—D. D. Conway, Law '95, who has been quite ill for some time past is again attending his classes.

—President Taylor, of Vassar, finds the accommodations of the college too limited for its necessities and has asked the alumnae for \$200,000 to cover the cost of a new lecture hall and dormitory.

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SPECTROSCOPIC PHOTOGRAPHY

One of the most important undertakings of the Harvard Observatory is the work in spectroscopic photography. The widow of Dr. Henry Draper, of New York, who died in 1882, gives annually a large sum, the Draper memorial, to carry out certain lines of investigation begun by Dr. Draper. The first photograph of a star was a daguerreotype taken at the Harvard Observatory in 1850 by Prof. G. P. Bond and J. S. Whipple. After that partly successful experiments were made by various astronomers, till in 1872 Dr. Draper made the first successful photograph of a star. Then, before his death, with steadily improving methods, he secured the photographs of seventy-eight stellar and planetary spectra. At his death Mrs. Draper decided to endow a department of the Harvard Observatory to be devoted to photographing and investigating the spectra of the stars. The main investigations carried on under the Draper memorial are: (1) Cataloguing the spectra of all stars north of 20 degrees of the sixth magnitude or brighter; (2) making a more extensive catalogue of stars brighter than the eighth magnitude; and (3) studying in detail the spectra of the bright stars. The work was done first with the eight-inch Bache telescope now at the Harvard station in Peru. This Mrs. Draper has replaced with another eight-inch telescope. There are besides Dr. Draper's eleven-inch telescope and the telescope given by Miss Catherine Bruce at a cost of \$50,000. The latter is on trial before being sent to Peru.

COLLEGE NEWS.

—S. B. Thorne, half back on the Yale eleven has been elected captain for next year.
—Langdon Lea who has played guard on the Princeton team for the last two years, has been elected captain.
—Bates College contemplates building a library building as a memorial of the late James G. Blain, who was one of its trustees.
—The annual dinner of the Dartmouth alumni association of Chicago was held last Friday at the Sherman house, commemorative of the one hundred and twenty-fifth anniversary of the founding of the college.
—Professor William I. Knapp, of the University of Chicago, has sold his Spanish library of 6,000 volumes to a son of C. P. Huntington, of New York. The library is exceedingly valuable. Professor Knapp during his long residence in New Haven as professor of modern languages at Yale University collected many rare volumes on philology and the history, religion and laws of Spain a country in which he was deeply interested.

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OFFICIAL NOTICES.

DECEMBER 11, 1894.

TIME TABLE OF EXAMINATIONS.

Fall Term, 1894.

The last week of the term will be given up to examinations as follows:
On Monday will occur the following examinations:
Freshmen: German, 8-10 a. m. and 10:30-12:30; Rhetoric, 2-4 p. m.
Sophomores: Rhetoric, 8-10 a. m.; Physics, 2-4 p. m.
Upper Classmen: Psychology, 10:30-12:30 a. m.; 2-4 p. m. special examinations.

GROUP I.

Tuesday and Wednesday will be given up to examinations in 4-5 studies, and to those 3-5 studies that fall on Monday, Wednesday and Friday as follows:

Recitation hour.	Examination.	
8-9	8-10	Tuesday.
9-10	10:30-12:30	Tuesday.
10-11	2-4	Tuesday.
11-12	8-10	Wednesday.
12-1	10:30-12:30	Wednesday.
2-3	2-4	Wednesday.

GROUP II.

Thursday and Friday will be given up to examinations in 5-5 and 2-5 studies, and to those 3-5 studies that do not fall on Monday, Wednesday and Friday, as follows:

Recitation hour.	Examination.	
8-9	8-10	Thursday.
9-10	10:30-12:30	Thursday.
10-11	2-4	Thursday.
11-12	8-10	Friday.
12-1	10:30-12:30	Friday.
2-3	2-4	Friday.

SPECIAL ANNOUNCEMENTS.

Musical Theory..... 4-6 Monday.
Italian..... 4-6 Tuesday.
Distribution of Wealth..... 4-6 Tuesday.
Public Finance..... 4-6 Wednesday.
Elementary Harmony..... 4-6 Wednesday.
Biology..... 4-6 Thursday.
Advanced Harmony..... 10:30 Thursday.

Note.—In case of conflict between two studies in Group II, one of the examinations should be transferred to corresponding time in Group I.

BIOLOGY I.

Examination for removal of conditions of 1893-4 will be held on Friday, Dec. 14th, at 4 p. m., in room 42, Science hall.

C. R. Barnes.

PHILOSOPHICAL CLUB.

The next meeting of the Philosophical club will be held Wednesday evening, Dec. 12, instead of Dec. 11, as previously announced.

J. W. Stearns.

MATHEMATICAL CONDITIONS.

All engineering students conditioned in mathematics of spring term will have an opportunity of removing the same at an examination to be given in room 9, University hall, Saturday, Dec. 15, 1894.

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LITERARY NOTE.

Dr. C. W. Macfarlane has recently added to the literature of theoretical political economy an essay on "Rent and Profit." It is published by the American Academy of Political and Social Science and is an explanation of the exact difference between these two terms as used in political economy. Rent, says Dr. Macfarlane, is a "price-determined surplus," and profit a "price-determining surplus."

—Professor H. von Holst will deliver a course of lectures before the law students of Chicago during the winter upon the constitutional history of the United States.

SENIOR CANES: Seniors can now procure '95 canes at Rundell's.

PRESS CLUB—The University Press club will meet on Thursday, Dec. 13, at 7 p. m., instead of Wednesday, as previously announced.

Locals under this head 1c. a word

—See those Wisconsin pennant pins at Van Cott's.

—Gymnasium souvenir spoons at Cook's, North Pinckney.

—How's this? Blue books at one cent a piece at the Co-op.

—Nelson and Henderson are making some bargains in holiday goods.

—The College Book Store has a handsome display of calendars this year.

—S. A. Billig, Chicago importing tailor, will be at the Van Etta again next Saturday. It may pay you to see him.

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

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