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The Daily Cardinal.

UNIVERSITY OF WISCONSIN.

Vol. IV.—No 53]

MADISON, WIS., TUESDAY, NOVEMBER 13, 1894.

[PRICE THREE CENTS.]

HOW KNOWLEDGE GROWS

ADDRESS BY PROFESSOR JASTROW.

BEFORE THE MADISON LITERARY CLUB.

New Members of the Club—Program for the Year.

The Madison Literary club held its regular monthly meeting at the residence of Mr. R. G. Thwaites on Langdon street. Although the night was disagreeable and stormy the attendance was, as usual, large. The first business of the club was the formal adoption of the program for 1895, as presented by the committee. The program adopted was as follows:

January—The Origins of Andrew Jackson, by Dr. F. J. Turner.

February—Literary Syndicates, by Prof. A. O. Wright.

March—Fifteenth-Century Education in Spain, by Mrs. S. L. Sheldon.

April—Problem of Lake Life, by Dr. E. A. Birge.

May—The Vikings, by Dr. R. B. Anderson.

June—The Early Banking Law in Wisconsin, by Senator R. M. Bashford.

July and August—Summer vacation.

September—The Scott Renaissance by Mrs. S. F. Conover.

October—Sophocles as an Ethical Teacher by Prof. C. F. Smith.

November—Some Steps Leading to our Magna Charta by Justice J. B. Cassoday.

December—John G. Whittier by Dr. J. C. Freeman.

The executive committee recommended the names of Professor Charles Foster Smith and Mrs. J. G. McMynn for membership, and this report was adopted.

The literary feature of the evening was the reading of a paper on How Knowledge Grows, by Prof. Joseph Jastrow. The general purpose of the paper was to trace the development of science and culture. Professor Jastrow began with an analysis of what is meant by truth and the methods of obtaining it, with a characterization of the methods of tenacity, authority and of science. Facts and ideas, he said, are the main requisites, and the ideas must be appropriate to the facts. This was illustrated by examples from Aristotle's physics; from the old notions about fossils. The paper also dwelt particularly upon the necessity of imagination in science. The discoverer must run ahead of nature, said Professor Jastrow, but must always verify his steps. In this respect Bacon's notion of science is defective. The standard of truth, as reflected in the spirit of the times, influences the progress of knowledge; and the same arguments which in one age are considered valuable, in the next are rejected. This was illustrated by the history of witchcraft. There are certain retrogressive tendencies in human thought, said the speaker, and as illustrations of this principle he referred to the predisposition toward deductive reasoning and the fondness for large ideas. He spoke also of the fondness

for mysticism and for short cuts to learning, illustrated by alchemy and magic. Scholasticism illustrates the tendency toward professionalism; for mere intoxication in thinking without results. The paper also discussed the practical side of the subject as represented by ethics, politics and various industries, and the influence of each in the spread of ideas was illustrated; while they have had effects in the tendency to lay too much stress on expediency to the neglect of principles. Professor Jastrow criticized the narrow view of practicability and closed his paper with a plea for far-sighted practicability and principle.

Dr. Birge said, in leading the discussion, that many of the conditions that the paper had discussed as being improvements in the growth of knowledge were still present in our nineteenth century civilization. He instanced the fact that if we do not have genuine witches, we have a substitute in clairvoyant physicians that infest the land and do a thriving business. Moreover, he thought the majority of the people even of the United States believe in some phase of witchcraft. If we could get at the innermost thoughts of people we would find belief in ghosts of some sort. Most people prefer to go around a churchyard at night rather than through it. Scientists of today meet the same sort of obstacles to progress that their predecessors met, and also fall into similar errors. They stand in the face of problems that seem as inexplicable as problems that now have been solved seemed to the philosophers of old. Since Darwin, for instance, we know why animals and plants assume certain forms, but of the mechanical process involved we know practically nothing. We are not as yet really so far in advance of our ancestors but that we can recognize them and feel proud of them.

Dr. Turner discussed the processes in the growth of historical writing, and indicated how America through her development in isolation from the older centers of civilization had given new impulses in many departments of human knowledge.

Prof. Van Hise spoke of the boldness of early scientists and theorists as compared with the cautious scientists of the present, whose opinions as to ultimate facts and theories are promulgated with the greatest hesitancy. He deprecated the fact that many of the best investigators are so timid as to become barren. All knowledge is more or less imperfect, and a general recognition of this fact ought to give men courage to enunciate their best scientific thought. We accept the truth that Darwin proclaimed, but he did not give us complete truth. It is receiving accretions every day.

Dr. Stearns spoke of the contributions made to the world's knowledge by the intuitions of gifted minds, men like Emerson and Matthew Arnold, who were not trained scientists.

Dr. Butler was called on. He told a story to indicate that he had been quite sated with the learned discussions of the evening. The story was that a physician once prescribed a quart of medicine for Tom Thumb. Tom objected, insisting that his capacity was but a pint.

After the discussion refreshments were served and the remainder of the evening was passed in an enjoyable manner, made possible by the entertaining host and hostess.

THE PROBLEM OF MONOPOLIES

LECTURE BY PROF. SCOTT ON THE SUBJECT.

THEIR NATURE AND CAUSES DISCUSSED.

Are Monopolies Good or Evil?—Other Aspects of the Subject.

In the synoptical lecture on "The Monopoly Problem" delivered yesterday, Prof. Scott said in effect, that the problem is not a new one in the world's history. Aristotle described monopolies as existing among the ancient Greeks, the Romans had their share of them, and they were not unknown in the middle ages. The monopoly problem of today is only a new species whose sphere of influence has been greatly extended. Any business that is superior to the controlling influence of competition is a monopoly. When competition is perfect, profits are on a dead level, there is no higher rate of gain in one business than in another. But imperfect competition is no hindrance to monopolies, as for instance, the "cut-throat" competition sometimes engaged in by railroads usually resulting in a pool.

In order to diagnose the monopoly disease the forces which produce monopolies must be laid bare. For the purpose of discussion they may be divided into artificial and natural monopolies. The former owe their existence to forces outside themselves, to laws enacted for the protection of individuals, as patents and copyrights, or for the purpose of raising revenue, as the monopoly of tobacco in England and France, and of salt and alcohol in some of the Swiss cantons; the latter is produced by forces residing within itself, as the monopoly of land of peculiar quality, natural water front, street car lines, and the like. In addition a large number of monopolies owe their existence to the principle of increasing returns. The combination of many small businesses into a few large concerns in accordance with this principle is a towering feature of modern industrial life.

Are monopolies blessings or curses to society? Each case must be decided on its own merits; no categorical answer is possible. Most people favor patents and copyrights, while the foreign tobacco and salt monopolies must be discussed in the light of all the principles of taxation. Monopolies due to increasing returns exist because of cheap production, and cheap production is the sine qua non of civilization. Viewed from the standpoint of production natural monopolies of this class belong in the same category with great inventions as blessings to humanity. Wholesale condemnation of monopolies argues ignorance. But if monopoly is a good thing why have we this problem? Because the benefits of cheap production do not go to the community but into the pockets of the corporation. The problem is not to get rid of them, but so to control them that society may reap the bene-

fits. Government control is not the only way to solve this question; reference should be had to the merits of each particular case. The commission system has been tried in many states, and this has been supplemented by the interstate commerce commission. We are in the midst of experiment. The commission system, the only practical system, has not yet been fully tried, but its possibilities are great; the only alternative is government ownership and control, which in the face of present popular sentiment it would be folly to advocate.

UNIVERSITY GLEE CLUB OF NEW YORK.

The University Glee club of New York city was organized last March, and incorporated in June with the following men as its officers for the ensuing year: President, John T. Walker, Jr., Columbia; vice president, E. F. Ayrault, Columbia; secretary, Noah H. Swain, 2d, Yale; treasurer, D. Hunter McAlpin, M. D., '85, Princeton; board of directors, composed of the officers and Jacob Wendell, Jr., Harvard; S. T. Carter, Jr., Princeton, '86, W. P. Brandegee, M. D., Yale, '86.

The object of the club is to encourage male voice music of the highest excellence; to give musical receptions and concerts, and to promote social intercourse among college graduates and former college students residing in or near New York city. It is composed of active and associate members. The active members are limited to sixty, who sing at the rehearsals, concerts and other public performances of the club, and receive five tickets for each performance. Their annual dues are five dollars. The associate members are limited to two hundred, who receive five tickets to each concert, and may attend the rehearsals under certain restrictions. The dues for the associate members are fifteen dollars per year.

GLEE CLUB.

The Glee club met yesterday afternoon and elected officers for the coming year. The following were chosen:

President—Grant Showerman, '96.
Business M'gr. and Treas.—G. N. Greenbank, '95.

Leader—A. K. Sedgwick, law '95.
Librarian and Sec'y.—David J. Davis, '98.

CHORAL UNION.

Considering the unfavorable weather there was a very good attendance at the meeting of the Choral Union at Library hall last night. Good progress is being made in the rehearsal of the "Creation."

YALE GRADUATES.

The Yale Daily News has printed a list of the occupations of the members of the recent graduating class. Seventy-eight members of the class are studying law, forty-one are undecided, thirty-six engaged in business, twenty-three teaching, twenty-one studying medicine, nineteen taking post-graduate courses, twelve studying theology, six traveling and four are engaged in journalistic work.

—William Brumder, '90, of Milwaukee, visited the U. W. yesterday.

The Daily Cardinal.

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

The first meeting of the University Press club will be held Thursday evening in North hall. Officers will be elected and plans for the meetings will be considered. All those interested in newspaper work are eligible to membership in the club.

Now that winter is almost here our athletes will soon turn their attention to winter sports. Last year quite extensive beginnings were made for a covered curling rink at the Athletic field. This scheme should be carried out and the rink finished, thus giving the curlers a place to play in all sorts of weather. Last year also ice-boat regattas proved very interesting and this year it is suggested the arrangements be made for a regatta to be participated in solely by boats owned by university students.

As it is expected that the heating apparatus as well as baths will be in running order in a few days, it seems no more than right to us that some understanding be reached as to the charge for using the swimming bath. Much has already been said pro and con in regard to a charge of ten cents so it is needless to argue that question. However, it ought to be known that many students are absolutely unable to pay the fee as often as would be necessary and therefore would be deprived of much pleasure and benefit. If a charge must be made of some sort, though we can cite similar institutions where it is not made, what we would suggest is some commutation ticket making the average rate somewhat less. This would go a long way toward satisfying all concerned. The

scheme at least is worthy of a trial for the reasons given and we trust its practicability will be manifest.

BETTER FOOTBALL.

Casper W. Whitney has an extended article in the last Harper's Weekly on some of the evils now threatening football. He considers that the game will not be properly played until slugging is entirely eliminated from the sport. He suggests that the linesman be given some power, instead of being one whose opinion is only expressed when asked for. He could then watch for foul plays, and immediately rule off the offender. A few penalties of that kind would soon stop that sort of work. Mr. Whitney thinks also that too much time and money is being spent on preliminary practice. The playing of inter-collegiate games on college grounds only is strongly advocated.

PENN'S COACH.

Ellis Ward, who trained the Pennsylvania crew several years ago, will, in all probability, be re-engaged to coach for the coming year to fill the vacancy caused by George Woodruff's resignation.

For several years past Ward has been with the Manhattan Athletic club, of New York. In all probability Craig's Riding School, Thirty-third and Market streets, where the baseball candidates have practiced for several seasons, will be fitted up with a rowing tank for the crew.—Pennsylvanian.

WHAT MINNESOTA THINKS.

"The Universities of Michigan and Chicago hope to make their annual Thanksgiving Day game correspond in importance to the Princeton-Yale game in the east."—Amherst Student. We hope that the student believes this. We know that neither Michigan nor Chicago has any such hope. So long as Wisconsin and Minnesota have teams a game between Michigan and Chicago will not reach such importance.—Ariel.

INSTRUMENT MAKING AT YALE.

The workshop in connection with the psychological laboratory at Yale has started on the task of raising the standard of instrument making in America. A skilled mechanic and electrician has been under training for the last year. Several very fine pieces of apparatus have been made for other universities, the workmanship being superior to that of any European psychological or physiological instrument-maker and equal to that of the best makers of physical instruments. The advance of science depends largely upon the perfection of its instruments and the object in the Yale laboratory is to render it possible for all American psychological laboratories to obtain at home those nearest perfection. In addition to furnishing instruments for use at Yale, orders have been filled for Cornell and Clark universities and the University of New York.

COLLEGE NEWS.

—One-fourth of the number of student at the University of Berlin are Americans.

—The Princeton Gymnastic team has sent a challenge to the Yale Gymnastic association.

—Harpers' are going to publish shortly a new book by Walter Camp, entitled "Football Facts and Figures."

—It has been finally decided that the West Point and Annapolis elevens will not meet this year.

—A new edition of "The Scientific and Practical Treatise on American Football," has appeared, revised up to date.

—Ground has been broken for a new student's hall at the University of Penn. to contain a gymnasium, auditorium and Y. M. C. A.

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NEW ENGLAND COLLEGES.

The thirty-eighth annual meeting of the Association of Colleges in New England was held in Amherst last week.

All the colleges of New England were represented, and the session was the most successful for several years. The first session was opened by President Hall of Clark University, on the following subject. "The German Gymnasium and the French Lycee: what do they suggest for the American college?" Three other meetings were held on the following Thursday evening, and on Friday morning and afternoon. There were five other subjects on the program, suggested by Harvard, Williams, Clark University and Boston University, on which there was informal discussion.

The list of colleges and delegates was as follows: Harvard, President Eliot and Prof. M. H. Morgan, assistant professor of Greek and Latin; Yale, President Dwight and Prof. Tracy Peck, professor of Latin; Brown, President Andrews; Williams, President Carter and Prof. J. H. Hewitt, professor of Greek; Amherst, President Gates and Prof. D. P. Todd, professor of Astronomy; Trinity, President Smith; Wesleyan, President Raymond and Prof. E. T. Merrill, professor of Latin; Dartmouth, President Tucker and Prof. C. F. Emerson, professor of Natural Philosophy and Astronomy; Tufts, President Capen and Prof. Chas. E. Fay, professor of Modern Languages; Boston University, President Warren and Prof. M. W. Warren; Bowdoin, President Hyde and Prof. L. A. Lee, professor of Geology and biology; Clark University, President Hall and Prof. W. E. Story, professor of Mathematics; Vermont University, President Buckham and Prof. G. H. Perkins, professor of Natural History.

NEW YALE MAGAZINE.

Monthly, the new Sheff magazine, has appeared. The first number of The Yale Scientific appeared. In character the new magazine is not a technical scientific publication, but rather after the style of The Popular Science Monthly. Each issue will contain articles by professors, distinguished alumni of Yale, and other prominent men, as well as contributions from the undergraduates of the scientific school. The exterior as well as the interior of the magazine is most attractive, the cover being of the heaviest quality of light olive brown paper. It is printed in black and light red. In the upper left hand portion is the title of the periodical.

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COLLEGE NEWS.

—One hundred and twenty-five preparatory schools are presented in the academic freshman class at Yale. Of these schools, Andover sends fifty-one.

—Of the nine candidates successful in the late examination in art, theory and history of teaching, at the London University, eight are women.

—President Webb, of the College of the City of New York, was presented on Tuesday with a silver cup by the professor and instructors in commemoration of his twenty-five years services.

—Paul Dashiell, a graduate of Lehigh, has been chosen referee at the Yale-Harvard game to be played at Hampden Park, Springfield, Moffat, the famous Princeton full back, will appear in his accustomed position of umpire.

—Brown University has 60 more students this year than at any other time in its history. With the increase in students there comes the urgent need of new laboratories, a new chapel and new dormitories. Brown has received only \$200,000 endowment in the last four years.

LOCAL AND PERSONAL.

—Grant Showerman, '96, who was suffering from a severe cold a part of last week, has resumed his studies on the hill.


—Mr. John A. Kittell, '96, is back on the hill and reports his election as school superintendent of Brown county.

—President Adams started for Champaign, Illinois, this morning, where he will deliver an address tomorrow at the dedication of the new Engineering building of the university.


—The football men have the gymnasium floor to themselves from four to five for practice while the campus is in its present condition. Arrangements are being made to scrape the snow off the grounds.

—New classes are about to be formed in sparring and wrestling under the private instruction of Mr. Everett. The time for the sparring classes will be on every day at 8 a. m. and Tuesday, Thursday and Saturday at 12 o'clock. In wrestling on Monday, Wednesday and Friday at 12 o'clock, and on Saturday and Thursday at 4 o'clock. The price for ten lessons is \$1.00. The students in the classes which have already been organized are well satisfied with the instruction given.

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UNIVERSITY CALENDAR.

Wednesday, November 14.

Lecture on biology, Prof. Barnes, Science hall, 4 p. m.
Y. W. C. A. meeting, Ladies' hall, 5 p. m.

Thursday, November 15.

Lecture on English literature, Prof. Hubbard, Science hall, 4 p. m.
Y. M. C. A. meeting law building, 6:45 p. m.

Friday, November 16.

Lecture on Roman literature, Prof. Hendrickson, Science hall, 4 p. m.
Athenian and Hesperian societies, University hall, 7 p. m.
Philomathian society, Science hall, 7 p. m.
Laurean and Castalian societies, Ladies' hall, 7 p. m.
Columbian, Forum, and E. G. Ryan societies law building, 7 p. m.
Engineers' association, Science hall, 7 p. m.
U. W. Engineers' club, Science hall, 7 p. m.
Engineers' Reading club, Science hall, 4 p. m.
Pharmaceutical society, North hall, 7:30 p. m.

Saturday, November 17.

Football game with Minnesota university, lower campus, 2:30 p. m.

UNIVERSITY BUTTETIN.

CO-OPERATIVE ASSOCIATION:—There will be a meeting of the directors of the University Co-operation association Thursday afternoon at 3 o'clock in room 25, Science hall.

PRESS CLUB: The University Press club will hold its first meeting of the year in Prof. Rosenstengel's room, North hall, Thursday, November 15, at 7 p. m. All members of the club and all desiring to become members are urged to attend.

SOCIAL CLUB: There will be a meeting to organize a social club at 3 p. m. Wednesday in room 21 of Science hall. All those interested are requested to be present.

Locals under this head 1c. a word.

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On account of the Wisconsin-Minnesota football game the Chicago and Northwestern railroad will make a rate of a fare and a third for the round trip, from all points within a radius of 75 miles of Madison, including Milwaukee.

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"Books of Views of Madison and the University" are selling at 40 cents at the College Book Store.

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The Chicago, Milwaukee & St. Paul Railway Co., on account of the football game between the Wisconsin and Minnesota Nov. 17th, will make a rate of a fare and one-third for the round trip from all points within a radius of 75 miles of Madison. Tickets will be sold Nov. 16 and 17, good to return on Nov. 19th.

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