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The Daily Cardinal.

UNIVERSITY OF WISCONSIN.

VOL. IV—No. 106.]

MADISON, WIS., FRIDAY, FEBRUARY 8, 1895.

[PRICE THREE CENTS.

NEW UNIVERSITY BULLETINS

THEY TREAT OF CHEMISTRY
AND GEOLOGY.

WRITTEN BY MEMBERS OF THE
CLASS OF NINETY-FOUR

Brief Reviews, of the Bulletins—
Highly Commended.

The university committee of publication has recently issued two bulletins in the science series that are student productions and which reflect great credit upon their authors. They are the theses submitted for the degree of Bachelor of Science last June by Herman Schlundt, '94, now assistant in chemistry at the university and Samuel Weidman, '94, who is now pursuing graduate work here. Mr. Schlundt's work was issued last December and Mr. Weidman's last month.

The subject of Mr. Schlundt's work is on the speed of the liberation of the iodine in mixed solutions of potassium chlorate, potassium iodide and hydrochloric acid. The paper shows the speed of liberation in these mixed solutions as influenced by 1st. temperature, 2nd. degree of concentration, 3d. pressure of an excess of one or more of the components, and 4th. by the addition of an excess of other acids.

The results are given in tabulated form and to facilitate comparison are represented graphically by curves. The results obtained lead to the following conclusions:

1. The speed of the reaction is influenced to a marked degree by the temperature, the speed increasing with the rise of temperature.

2. The presence in the mixture of an excess of one or more of the components increases the speed. The effect of an excess of potassium iodide is about the same as an equivalent excess of potassium chlorate. But a corresponding excess of acid causes a greater increase of speed.

3. Other things being equal the speed of the reaction is modified by degree of concentration of the mixtures, the speed increasing with the concentration.

4. To obtain the complete reduction of potassium chlorate by potassium iodide and hydrochloric acid in a comparatively short time, the solutions must be concentrated, there must be present quite an excess of both potassium iodide and hydrochloric acid, and the mixture must be strongly heated.

5. The presence of an excess of the ordinary inorganic acids accelerates the reaction. Assuming their respective influences as indicating their relative strengths, the results on acceleration show the following order of strength: (1) hydrobromic, (2) hydrochloric, (3) nitric, and (4) sulphuric.

The work of Mr. Weidman is entitled "Quartz Keratophyre and associated rocks of the North Range of the Baraboo Bluffs." Baraboo Bluffs are in Sauk county, Wisconsin, and this quartz keratophyre is at the lower narrows of Baraboo River in the

north range of the Baraboo bluffs about midway between Baraboo and Portage. The Quartz Keratophyre is a very old volcanic rock forming but a part of the North Range of Baraboo Bluffs. Formerly this area was considered by the Wisconsin Geological Survey to be wholly or at least partly of sedimentary origin, but recent, closer examination by Mr. Weidman showed it to be wholly eruptive. The rock is a typical volcanic outflow showing in field study outcrops of volcanic breccia which show well lava flowage about fragments of rock. The microscopic sections made from Quartz Keratophyre rock show typical volcanic structures of the groundmass, such as spherulitic, poikilitic and fluixion structures. Parts of this rock have been altered into schists, which alteration has been brought about during the process of the folding and the elevation of the Baraboo Bluffs. In geological age the Quartz Keratophyre is younger than the quartzite which forms the greater part of the Baraboo Bluffs and older than the cambrian sandstone which overlies both the quartzite and the eruptive rock. That Mr. Weidman's production is a most creditable one is evidenced by the distinction it enjoyed in being read before the Geological Society of America at the Baltimore meeting, December 1894, at which meeting Prof. Iddings of Chicago university presented it.

THE WOMAN'S LEAGUE.

At a recent meeting of the Woman's League, reports showed that the membership is rapidly increasing, a most encouraging fact. Still nothing less than an enrollment which shall contain the name of every young woman attending the university, will satisfy the demand.

The great purpose of the League is to form a bond of union among its members, to bring each into personal contact with every other, to promote an independent and helpful social intercourse, to afford a basis for united action, to keep in touch with other organizations of women students throughout the country that are working for the object. There are various means of promoting these ends but if the hopes of its founders are in, to any marked degree, to be realized, the active interest and earnest co-operation of each and every young woman is a primary necessity.

The only requirement for membership is attendance at the university. A hearty invitation is extended to all to attend the meetings and subscribe their names to the roll.

PAPER BY MRS. SAUNDERSON.

The ladies of the faculty are requested to meet with Mrs. C. K. Adams on Saturday, February 9th, at 3 p. m. to listen to a paper on Physical culture, by Mrs. G. W. Saunderson. An informal reception will follow the paper.

The geological department of the university has recently received a handsome globe for lecture purpose, and a relief map of Lookout Mountain Tennessee. The map is modeled by Edwin E. Howell of Washington and is interesting both from a geological and a historical point of view as it displays the whole Chattanooga region.

TRIP OF THE MUSICAL CLUBS

WILL BE ONE OF THE LONGEST EVER TAKEN.

CONCERTS AT CHICAGO, DES MOINES AND OMAHA.

Will Also Visit Sioux City and Minneapolis—Complete Schedule of
of the Trip.

The route for the musical clubs' trip has finally been arranged. It will be much longer than any of the previous trips taken by the clubs in former years as it will extend as far west as Omaha and will also include a number of the cities in Wisconsin.

The first concert will be given on Saturday, March 23, at Milwaukee. For this concert it is the intention to run an excursion in form Madison, with reduced rates for the concert and the trip. This will be a new feature for the trip and a most excellent one as it will enable a large number of students to start the clubs on their trip.

Monday, the 25th, is still an open date but a concert will probably be arranged for that day. The clubs will be at Oshkosh on the 26th and will then go to Chicago, stopping however, for a concert at Racine. The concert at Chicago will be given on the 28th, the 29th will be the date of the Rockford concert and Des Moines will be reached on the 30th.

The clubs will spend Sunday at Council Bluffs and Omaha where a concert will be given the next day. From there they will turn north, stopping at Sioux City, and will reach Minneapolis April 3d. Stops will be made at Eau Claire and La Crosse on the 4th and 5th.

NEEDS OF THE UNIVERSITY.

Considered by President Adams—Appropriations Wanted.

President Adams has issued an article calling attention to the urgent needs of the university for appropriations from the legislature. Taking up the current expenses of the university he notes the great increase of students during the past few years. This increase has correspondingly increased the expenses of the university while at the same time tuition fees have not increased. For these current expenses the president estimates that \$70,000, more than is now received, will be necessary, without counting increased demands on account of new students.

For the college of engineering there is also great need of money. An appropriation for a chair of Architecture is urged. An additional expenditure of the running expenses of the department is also urged.

The importance of the work of university extension is also noted. A secretary who can give his whole time to the work is very necessary. The president states that the work of university extension often attracts stu-

dents to the university, giving the extension lectures.

The College of Agriculture needs about \$20,000 for the completion of the horticultural building. This addition would be partly occupied by the department of agricultural physics.

The enlargement of Ladies' hall is urged. This would give adequate facilities for the gymnastic work of the girls. An appropriation of from \$25,000 to \$40,000 is required for a new dining room and kitchen, a gymnasium, hall and a number of additional sleeping rooms.

As has long been apparent to the students that University hall is greatly in need of repairs. It has also become extremely crowded even since the recitation rooms, in the other buildings have been used to relieve the hall. The President states that when university hall was constructed, there were about three hundred students who attended recitations at the building. Now it has to accommodate eight hundred students and thirty one instructors. The poor condition of the building is also commented on and it is stated that \$10,000 will be needed to put it into proper shape without enlarging it.

The construction of a new barn and the purchase of a herd of cattle for the dairy department are also urged. This would cost about \$8,000.

The general need of an increased equipment is also noted and a comparison between the university of Wisconsin is made. Several institutions have a much larger equipment than Wisconsin, and it is felt that the present taxes are insufficient for the proper increase of the equipment. The present income of the university can only cover current expenses and provide for the increased number of students expected during the next few years. The university of Wisconsin has to compete directly with institutions receiving liberal support and it is necessary that an increased appropriation be made by the legislature to make it to hold its own.

UNIVERSITY ORCHESTRA.

The U. W. Orchestra will meet tomorrow as usual. At the last meeting it was decided to apply to the faculty for credit for orchestra work. It is the intention of Prof. Parker to give a concert in the spring term, but this can only be carried out by a regular attendance of all the members and therefore a list of all persons attending the rehearsals will be kept and any member being absent a certain number of times will be asked to discontinue the work. The value of orchestra work for musicians of all grades, cannot be over-estimated. The European conservatories have seen the great benefits to be derived from such work and the conservatory of Frankfurt-on-the-Main, one of the finest schools of music on the continent, has one of the best student orchestras in the world.

An orchestra under the leadership of such accomplished musicians as Prof. Parker and Dr. Saunders certainly offers a great opportunity for all students playing orchestral instruments to do good work in the line, and there should be a full attendance at all the rehearsals.

The Daily Cardinal.PUBLISHED DAILY (SUNDAYS EXCEPTED)
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Tomorrow night's meet at the gymnasium should be well attended, for it depends upon the financial results of this meet and the one next week, whether or not a team can be sent to compete at the meet at Chicago, March 2nd. Mr. Cornish of the C. A. A. who is managing the meet writes that Illino's has agreed to send a team and that Chicago, Lake Forrest, Northwestern and perhaps Michigan, will send teams. It would certainly be an excellent thing for athletics here to send a team and it only remains for the students to determine whether it is to be done or not.

The price of the meet is so low that no one can stay away on that account, and next week the meet will be particularly interesting as it will include the trials in sparring, wrestling and fencing for the midwinter meet.

ATHLETIC MEET.

Preparations for the Annual Event.
—A Great Affair.

All preliminary arrangements have been completed for one of the best and most complete midwinter meets ever held in the west. The event will be in charge of the entertainment committee of the Athletic association, consisting of Messrs. M. J. Gillen, E. J. Henning, A. W. Gray and Chas. Mayers. The training of the contestants, and the selection and arrangement of events has been placed in charge of Mr. Everett and Mr. Downer. Mr. Everett desires everybody who has any ability or inclination to compete for places on the program.

Mr. Everett has been chosen master of ceremonies, and he will see to it that the various events will follow each other in rapid succession. The audience may be assured of an evening of continuous interest and enjoyment,

entirely devoid of those tiresome long pauses between successive events. A general admission of 25 cents will be charged, but seats may be reserved by those who desire them during the advance sale, which will be announced later.

Every effort will be made to give an exhibition far eclipsing anything ever before witnessed in this city. The sparring matches, wrestling contests, cane sprees, high dive, tumbling exhibitions etc., which were so successful last year, will be greatly improved and elaborated upon, while many new and novel events will be added. At present, the great interest shown in the event by both students and city people, as well as the legislators, indicates that there will be an overcrowded house, and a special committee has been appointed to see to it that every available space in the great gymnasium hall may be utilized for their accommodation.

ASSOCIATION OF WESTERN INSTITUTIONS.

At the last meeting of the Schoolmaster's club a resolution was passed calling a meeting to consider the advisability of organizing an association of colleges and secondary schools of the Northcentral states. In accordance with this resolution President Angell is sending out circulars to the heads of the universities, colleges, scientific schools, normal schools and academies in the designated territory.

The meeting will be held in the office of President Henry Wade Rogers, of Northwestern University, March 29 and 30. A number of questions will be considered relative to the formation of the association.

It is proposed after completing the organization that steps be taken to co-operate with the similar associations of the New England and Middle States. The requirements for admission to college in special branches, the best method for examination for admission to college, and the modifications which should be made in the courses in secondary schools are questions which will be discussed.

The call announcing the meeting is signed by President Angell, President Henry Wade Rogers, of Northwestern University; President Charles K. Adams, of the University of Wisconsin; President William R. Harper, of the University of Chicago; W. H. Butts, principal of Michigan Military Academy; W. A. Greeson, Principal of Grand Rapids High school, and R. G. Boone, Principal of Michigan Normal school.—U. of M. Daily.

ALUMNI NOTES.

'89—A. T. Johnson is practicing law in Chicago.

'93—H. E. Page has a position in a night school in Chicago and is studying law at Northwestern.

'93—A. J. Pratt is assistant principal of the Prairie du Chien high school.

'93—Walter J. Richards is located at Pittsburgh, Pa., as a civil engineer.

'93—C. J. Fenner is instructor in mathematics at the Platteville normal school.

'94—E. E. DeCou is principal of the Evansville high school.

'94—E. J. Frawley is practicing law at Eau Claire.

'94—Miss Grace Terry is assistant principal at the Monroe high school.

PHILOSOPHICAL CLUB.

The Philosophical club held a meeting in Library hall Wednesday evening. Mr. D. R. Jones, '96, presented the chief paper of the evening, his subject being "Rights." Mr. W. C. Ferris presented a paper on Prof. W. S. Sheldon's views on What Justifies Private Property and Miss Edith Lyle discussed Carroll D. Wright's report on the recent strikes.

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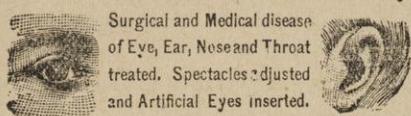
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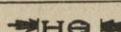
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—Prof. Van Hise left for Washington D. C. yesterday, to be absent until the beginning of next term. Prof. Van Hise as an officer of the U. S. Geological Survey has charge of the Lake Superior region and it is in the interest of this work that he goes.

ATHLETIC WORK.

The Training of the Teams—Notes on
the Work.

A person interested in athletics, viewing the present condition of things at the gymnasium, would say he could not see how the university ever accomplished anything in athletics in former year, for, even now, with one of the most spacious gymnasiums in the country, the different teams are crowded for sufficient working room. The first division of baseball men meet in the morning and have the whole building to themselves. But immediately after dinner that point is the Mecca of all the athletes and amusement seekers of the institution. Some go there for daily exercise and baths, others simply to see what is going on, and others, and one can say the majority, go there to train for the baseball, the crew or the track teams. With about 25 base ball, 30 crew and 40 track men it is a scene of commotion most of the afternoon. The baseball men take possession of the ball cage at 3 o'clock and hold it for an hour, practicing hitting, throwing and catching the ball. At 4:15 the crew take it and work until 5 o'clock. The trackmen are handicapped a good deal for they use the gymnasium floor and as their hour of work comes at 4 when the freshmen and sophomore classes meet, they are hindered more or less. On Tuesdays and Thursdays drill occurs and they are shut out altogether, and have to take the narrow margin outside the net around the ball cage. It is such an inconvenience that it is suggested that the hour of practice be changed, and this will no doubt be done soon.

The baseball men are being thinned out so that about all the men now in practice will be kept for outdoor work when the spring comes. The men are all working hard for the much coveted positions and the indications are that an excellent team will represent U. of W. on the diamond this year. The outlook for the crew is more than pleasing. They show the results of good, hard and faithful practice. Capt. Rohn has worked earnestly with the men from the beginning and receives the support of all his men, and his services should be appreciated by all who desire to see Wisconsin furnish an eight that will win the laurels next June against Minnesota. The machine has been put in shape and Mr. O'Dea the coach, is here, which indicates that matters will be pushed with renewed vigor.

The track team as has been said is handicapped by the physical culture and drill classes and is not so far advanced with its training as the other teams. However, the series of indoor meets which are being held every Saturday evening will draw out the good men and special attention will be shown them. And further, if the asso-

THE DAILY CARDINAL.

LOCAL AND PERSONAL.

—W. G. Bleyer, '96, goes to Milwaukee this evening on business.

—S. T. Mock, law '96, is spending a few days in Milwaukee.

—A. A. Tempke, law '96, is unable to attend his classes on account of illness.

—Will Howe, Agricultural '98, returned today from a short visit at his home in Milwaukee.

—Mr. H. H. Jacobs is again taking his meals out with the rest of the students.

—The local chapter of Delta Upsilon gives a dancing party at its chapter lodge this evening.

—Miss Etta Smith, '94, who has been dangerously ill with typhoid fever at her home in Mineral Point, is now slowly recovering.

—Dr. Herbert Flint is meeting with continued success at the Opera House. The students are becoming very enthusiastic on the subject and many act as volunteers at the entertainments. Any one who has not yet availed himself of this exceptional opportunity of becoming acquainted with the weird art of hypnotism, should not fail to attend the final entertainments, which will be among the best yet given. The experiments are changed nightly so that the entertainments are always new and novel.

NO INTEREST IN POLITICS.

At Least Madison People Appear to Feel That Way.

The following books were issued from the Madison free library during January:

Fiction	2,416
Juvenile	1,515
History	220
Biography	124
Science	68
Politics	25
Philosophy	40
Travels	102
Poetry and drama	112
Art	46
Miscellaneous	180
Foreign	117
Religion	48
Total	5,013

—At a mass meeting of Princeton undergraduates recently it was voted that the freshmen should hereafter have no voice in the election of officers for the various athletic associations. This action was taken by advise of the graduate advisory and executive committee of Princeton.

—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 improbable that this step will be taken in the near future.

—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.

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

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.

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

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