

THE DAILY IOWAN

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No. 148

THE KANSAN DRIFT

STUDY OF BOULDERS FOUND IN IOWA

Original Investigation During the Past Year by J. H. Lees, Fellow in Geology

The Kansan Drift sheet which is exposed over southern Iowa contains numerous boulders which are evidently of foreign origin, and have been brought to their present location by some external transporting agency. These boulders are not often of large size rarely reaching a diameter of over five feet, while most of them are much smaller. They are found chiefly in ravines, where erosion has washed away the overlying loess which is much younger than the Kansan Drift, and so has exposed the boulder carrying Kansan till beneath. The specimens studied were gathered in large part in Johnson County, though a few were obtained from Madison County and other localities.

They may be classified as, first those of igneous origin, second, those of sedimentary origin, and third those which are the result of metamorphic action on rocks of either of the other two classes. To the first class belong granites, having as essential minerals quartz and feldspar with more or less of dark minerals—biotite mica, hornblend, or one or more diorites, consisting of feldspar and hornblend, with biotite mica and other minerals as accessory, gabbros, whose main elements are feldspar and pyroxene often with olivine and various subsidiary minerals with the exception of quartz and feldspar which are colorless or white and pink, and olivine which is yellowish and glassy, are dark in color and on fresh pieces often show bright flat faces, biotite especially having very brilliant surfaces.

Another class of igneous rocks is the syenites, named from Syene in Egypt, a class allied to the granites, but consisting essentially of feldspar and hornblend. Various gradations occur from one type to another since no clear-cut divisions can be made in classification. Certain rocks are also found which consist almost entirely of one of these minerals, as hornblendite, pyroxenite, etc.

Among sedimentary rocks may be classed limestones; sandstones; graywacke and arkose, formed from the breaking down of granite jaspellite, which consists of jasper and iron ores in alternate bands; shales; vein quartz and chert, which is formed by the concentration of silver from various sources and often in the Lake Superior region bears iron ore.

Metamorphic processes result in the production of gneissoid and schistos rocks, those in which the minerals are laid in more or less regular bands, also in the formation of new minerals, as in mud-rocks, in which mica or hornblend may be formed. Or

sandstones may be solidified into quartzites and impure limestones may develop the dark minerals of igneous rocks together with a laminated structure, or may be changed into marbles.

Of one hundred eighteen specimens examined thirty-nine were granites, twenty-eight diorites or slates, seventeen gabbros, three syenites, seven quartzites, eight schists, and sixteen sedimentaries. These figures will doubtless give a fairly accurate representation of boulders in the drift, except that in certain localities boulder-trains may contain a large percentage of one class of rocks, as for example in Madison county, where the Kansan glacier brought down great numbers of red quartzite boulders from the Sioux quartzite area located in parts of Iowa, Minnesota and South Dakota.

For purposes of study sections of extreme thinness are ground from a chip of the rock, and these are examined under a microscope of special construction fitted with polarizers above and below the stage. By means of the doubly or singly polarized light the various component minerals may be distinguished through their effects on light—their single and double refraction, their color, cleavage, twinning and extinction—the angle between the trace of the cleavage and the position at which the mineral becomes dark when both polarizers are in position—and all light would thus be cut off were it not for the polarizing properties of the mineral under investigation. This angle varies in different minerals, some extinguishing parallel to the cleavage, others at large angles to it.

After the rock has been thus described it remains to attempt to trace it to the parent ledge as described and located by other workers. It is found that many of these boulders were torn from the great rock masses of the Lake Superior region in Wisconsin, Minnesota and Canada. These rock masses are the result of volcanic activity, of sedimentary processes or of metamorphic agencies which were in operation in very early times when this region was the seat of great volcanism, and when the Kansan ice sheet moved southward and buried the region with its great white mantle it broke loose such pieces as it might and transported them to the south smoothing and polishing them and at last when forced to retreat dropping them with its load of clay and other material as a thick sheet all over Iowa and surrounding states.

The results of the study have been to make clear a portion of the history of the Kansan glacial epoch, to give some idea as to the direction of movement of the glacier, as well as to assist in determining the character of the boulders themselves.

Mrs. Newman, of Edgewood, is visiting her son C. A. Newman, '03.

FINALS TOMORROW

A Great Day in Tennis—Admission but Twenty-five Cents

Tomorrow the finals in the state tennis tournament will be played. The admission will be but twenty-five cents and tickets will be sold at the gate. As there is no other contest here tomorrow all that can attend. It is only once in five years that we have a state meet here, and all tennis lovers should be present. It takes money to run such a meet.

In this morning's game, Joy, of Normal, won from Belden, Grinnell, by a score of 6-2, 6-4. Maxwell, Cornell won from Thornberg, Penn twice by a score of 6-2.

Frank A. Wilder

Professor F. A. Wilder, who comes to Iowa next year took his baccalaureate degree at Oberlin; later he pursued graduate studies at Yale; for some time he was engaged in teaching in the high schools of Ft. Dodge and West Des Moines, spending some of his vacations in the University of Chicago, and some in doing field work for the Iowa Geological Survey. He resigned his work in the Des Moines High school to accept the position of Assistant State Geologist on the Iowa Survey, but wishing to perfect himself in certain special lines of study, he spent one year in the mining school at Freiburg, Saxony, and another year in the University of Chicago. At the close of his work in Chicago, he received the degree of Ph. D., and was honored by election as Professor of Geology and State Geologist by the University of North Dakota. These last positions he has held for but one year, but during that short time he has made a special study of the lignites of North Dakota, has published a number of papers in the Engineering and Mining Journal, and has issued his annual report as State Geologist in the form of a fine volume of 262 pages. Dr. Wilder will spend the summer in North Dakota in employ of the United States Geological Survey.

The minstrel show was repeated to a fair sized audience last night.

Ed Rall, '00, has been selected instructor in Latin in a private naval academy at Providence Rhode Island. The course will be in a training ship, on the water, and during that time the students will travel to Europe and various points of interest.

Charles H. Clark of the Homestead, was in town yesterday. This able newspaper man is a graduate of the university, from which he departed about two decades ago. He is a leading alumnus of the Beta fraternity and was a guest of honor at the local chapter house.

DRAKE GOES DOWN

IOWA 15, DRAKE 0

Splendid Game On Both Sides

Special to IOWAN.—3:35 p. m. Iowa defeated Drake in a splendid game of ball, by a score of 15-0. Iowa's battery was Cretzmeyer and Adams, while Haviland and Rawson were Drake's—JOHN VOS.

AN INCOPORATED BODY

Athletic Board of Control May Become Such—General Manager Considered

The board of athletic control held a special meeting yesterday afternoon for the purpose of considering the matter of a general manager of athletics for next year. A resolution was passed to the effect that the maximum salary to be paid the manager should be \$700. The executive committee were instructed to fix specifically the duties which would be required of the manager. To the same committee was referred the matter of tabulating in permanent form the records of all varsity athletics. The executive committee was also instructed to consider and report upon the advisability of incorporating the board of control and also to report upon the most advantageous form of incorporation.

LIT-SOCIETY NOTES

Annual Irving-Zet Junior Contest To-night

In the auditorium to-night, the juniors of the Irving-Zetagathian societies will discuss the popular question, "Resolved; That Senator Hoar's plan is preferable to entire federal control of corporations." It will be affirmed for Irving by G. R. Davis, J. G. Berryhill, D. H. Fitzpatrick; and denied for Zetagathian by A. W. Lauer, U. G. Hayden, H. L. Bryson. The judges are S. Calvin, E. A. Wilcox and H. S. Richards.

The debaters have been working hard upon this question and the prospects are good for a strong argument.

HEP-OCTAVE THANET

Last night the Hesperian and Thanet societies held their first joint program. The prospects are that this will be made an annual feature to draw the societies closer together.

MUST PAY FOR LIGHTS

The rule has been announced that those using the auditorium after 10 o'clock must pay the extra bills for lights.

Wisconsin and Chicago will hold a dual track meet in Madison Saturday.

Dr. C. R. Baker of Davenport has been giving a series of demonstrations yesterday and today before the students of the college of dentistry on porcelain inlays.

THE DAILY IOWAN

THE DAILY IOWAN
SECOND YEAR. No. 148

COMPRISES
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Eleventh Year

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THE DAILY IOWAN,
Iowa City, Iowa

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Calendar for the Week.

May 21, 22, and 23—Iowa Inter-Collegiate Tennis Tournament.

May 22—Zet.-Irving, Junior Debate, Auditorium, 8 p. m.

May 23—Contest for French Medal 10 a. m., Room 119, L. A.

May 23—Meeting Iowan Board 1 p. m.

May 26—Baseball, Varsity vs. U. I. U. at Iowa Field.

May 29—Competitive Drill, Campus.

May 29—Half Holiday.

May 30—Decoration Day.

May 30—Lowden Mathematical Prize Contest, Room 116 L. A.

Delinquent Iowan Subscribers should pay their subscriptions at Once.

Sign up the Lists

The rate to Des Moines while not quite as low as last year is the lowest rate which is allowed by the Western Passenger Association between the two points. It is almost one half of one fare. The 1903 track team is one of the gamiest, newest teams which has ever represented Iowa on the cinder path and will win the state meet with half a show, and we have a good show to win. Members of the Grinnell team which met both Ames and Drake, last Saturday, said that they thought Ames had a little the

strongest team of the three. But at the same time Iowa is going to Des Moines with good chances to win and none of those chances are going to be wasted. The meet is going to be one of the closest and fastest in years and nothing is more probable than that the Old Gold should emerge victorious from the bunch. Go down to Des Moines, see the meet, and help the team win. By your going the excursion rate can be secured and the rest of the fellows can go. Sign up the lists at Wienke's, the Smoke House, Parsons & Schneider's or at the Iowan office.

The announcement of the call of Mr. J. Percival Huggett to the pastorate of the First Congregational church in Cedar Rapids, will make another gap to be filled in the faculty. Mr. Huggett has made many friends among the University body during his nine months service here and his departure is a cause of regret.

The sleep walker, who made away with the protector and mask at the ball-park, has not yet awakened and discovered his mistake. Such acts may sometimes be intentionally done by students, but we would not expect them to take, with malice aforethought, from their fellows.

The folly of the practice of the state in forcing those who hold diplomas from its own professional schools to pass state board examinations was well set forth in the article from the Iowa State Press in yesterday's Iowan.

The action of the board of control in making provision for the permanent tabulation of the university athletic records is something that should have been commenced years ago.

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Alumnae Organize

With a view of doing work in
the interests of the university the
alumnae resident in Des Moines
met and organized Monday afternoon.

The officers elected were Mrs.
James G. Berryhill, president;
Miss Belle M. Gilchrist, vice president;
Miss Jessie Robinson, secretary and treasurer. A membership committee was appointed consisting of Mrs. Ella H. Durley,
Miss Florence Musson and Dr.
Adele Fuchs.

"Harry B. Noland, a young
lawyer of this city, made a beau-
tiful speech last night before the
Grant club on the subject of
"Henry Clay." Mr. Noland is a
graduate of the West Des Moines
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Official Bulletin

All those who have subscribed for the "Hawkeye" are requested to call for the same not later than Saturday, May 23. Also those desiring their annual plates can secure them by calling at Room 140 at 9:00—10:00 Tuesday, Thursday and Saturday, or at 3:30 to 4:30 daily.

ABSENCES EXCUSED

All those who go to the state meet at Des Moines, Wednesday, the 27th, may have their absences excused by signing the register at the Iowa headquarters.

A prize is offered by the Hamilton Club of Chicago, for an oration on Hamilton. Full particulars concerning the conditions can be learned at the President's office.

IOWAN BOARD

The IOWAN Board will meet in the usual place Saturday afternoon at one o'clock.

MEDALS

The competitive examination for the Official medal of the Alliance Francaise will be held on Saturday, May 23, at 10 a. m. room 119, L. A. This examination will be open to any undergraduate student in the department of French and will be conducted upon the following topics:

Written translation from French into English.

Written translation from English into French.

French Grammar (Etymology and Syntax.)

History of French Literature. Oral Reading.

Critical Appreciation. These medals will be awarded during the commencement. Exercises, and according to the wishes of the donor, Mr. James H. Hyde, of New York. One medal is intended for the women and one for the men studying French.

THE LOWDEN PRIZE

An examination for the Lowden Mathematical prize will be held on Saturday, May 30th, 1903, from 9:00 to 12:00 a. m., in room 116, hall of Liberal arts.

Competition is open to all students who are finishing with the current year, the sophomore work in pure mathematics. The prize of fifty dollars (\$50.00) may be divided equally between not more than two candidates, or may be withheld if it shall appear that the work of no candidate is of a superior order of merit. The subjects to be covered by the examination are Algebra, Geometry, Plane Trigonometry, Analytical Geometry of two dimensions, Differential and Integral Calculus.

The members of the committee charged with the award are Professors Weld, Veblen and Sims, ex officio, Mr. Lorenz and Mr. Mitchell. The questions submitted in previous examinations will be found upon the bulletin board in the mathematical library.

Those intending to compete are requested to submit their names to Professor Weld at an early date.

George E. MacLean, President.



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