Institutes.

ROVELL.

Much interest was shown in Mr. Benson's paper on the surface geology of Washtenaw county, which was admirable, and one left with the feeling that they had learned something new along the lines of farming. Mr. K. Kellogg of Denver was present at the meeting held in response to this request, was expected to give an address at this time, but being unable to come, his place was acceptably filled by Dr. Wm. J. Beal of the College, whose address will be printed in the record. The paper on the question "How far is the kickers" was timely and suggestive, pleasant feeling pervading the reaction. The usual interest was shown in the committee's report on the change of plan, but advocating more paper on the question. Several members expressed uneasiness over the introduction of the subject; that the full program cut them short. The business meeting was a stormy one, owing to the introduction of resolutions, one of which declared the institute a "self-sustaining institution." Some dissension, however, drifted into questions beyond all reasonable doubt years ago.

A regular jam all the time and those who applyturned away from the well-picked framework of a cow. Across the cow stands the obese remains of a hog and a ram, staring at the cow as though it were being fed up by the number of successful institute transactions and sharp contrasts. A large amount of reflection. It appears that they had learned something new along the lines of farming. Mr. K. Kellogg of Denver was present at the meeting held in response to this request, was expected to give an address at this time, but being unable to come, his place was acceptably filled by Dr. Wm. J. Beal of the College, whose address will be printed in the record. The paper on the question "How far is the kickers" was timely and suggestive, pleasant feeling pervading the reaction. The usual interest was shown in the committee's report on the change of plan, but advocating more paper on the question. Several members expressed uneasiness over the introduction of the subject; that the full program cut them short. The business meeting was a stormy one, owing to the introduction of resolutions, one of which declared the institute a "self-sustaining institution." Some dissension, however, drifted into questions beyond all reasonable doubt years ago.

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At the College.

Prof. J. A. Calcutt's father has been spending a week with him.

Prof. Weil has gone to Detroit on business for the College.

M. W. Fulcher has returned from an extended trip.

The experimental room of the physical laboratory is being painted.

Mr. Theodore has several special students in instruction in the Beckwith-Smith's art.

Miss Lucie Briggs is assisting her sister in the Secretary's office for a few days.

H. Platts of Anamosa was the guest of C. H. Adams, '99, several days last week.

Mr. Even McTilfan of Lapow was a visitor at the College one day last week.

E. S. Good and P. M. Lyman were the last visitors of the "stalking flood." We have present with us a replica of the celebrated John Brown of southern Illinois.

Deputy Auditor General Williamson spent a few hours on the campus Wednesday last.

Several instructors visited the School for the Blind Friday for the purpose of testing their engine.

During the past week the horticultural laboratory has received a new light with electric lights.

Miss I. H. Butterfield, who has been spending the past week with her sister at Milford, returned home Saturday.

Mr. J. S. Conway of the agricultural department made a Business trip to Oswego and Bennington last Thursday.

The mechanical department has had a serious call bells installed. Each department is connected with the office.

Mr. F. R. Johnson, steward and bookkeeper of the Home for Feeble Minded at Lapow, was a visitor last Wednesday.

The Y. W. C. A. extends an urgent invitation to all the ladies on the campus to meet at 7:15 for a special service in preparation for the Y. W. C. A. meeting Wednesday night. The question for debate will be "Resolved, That Darwin did more than Agassiz for the promotion of natural science." The Lansing Science Club will have an exhibition at the College. The question for debate will be "Resolved, That Darwin did more than Agassiz for the promotion of natural science." The Lansing Science Club has the affirmative and the Natural History Society has the negative. The debate will be held in the auditorium on Thursday evening.

Prof. Taft will attend a conference of the national committee of the Natural History Society and the Lansing Science Club.

The House committee on the Agricultural College, consisting of Messrs. Stack, Adams, Campbell, and Oebendorfer, visited the College Thursday afternoon and inspected the various departments.

The Botanical Club has organized under a new constitution. It will meet every Monday evening at 6:30 in the senior building, and have advanced in botany to be investigated and be present.

A special heat was taken off at the College while attending the annual meeting of the Lansing Science Club. The question for debate will be "Resolved, That Darwin did more than Agassiz for the promotion of natural science." The Lansing Science Club has the affirmative and the Natural History Society has the negative. The debate will be held in the auditorium on Thursday evening.

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Some of the students are wondering why it would not be a good plan to have an ice park, where skating could be enjoyed. Skating is a good exercise, and several places where a good park could be constructed at a small expense.

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Prof. Woodworth then placed his hand between the tube and the plate so that the shadow of his hand fell on the plate. A fairly good negative was obtained, which was exhibited a few minutes later.

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his flag, and the two transit observers every minute and a half he would wave.

There was a draughting room and one of the government survey boats. She was a fine boat, about 50 feet long and 12 wide. The men required to make running lines the two observers stand on top of the cabin, the leadsmen are running lines the two observers stand on the deck and water, and if she went down there was no possible way to escape. We were about one mile from shore and under water, and if she went down there was no possible way to escape. We were about one mile from shore and under water, and if she went down there was no possible way to escape.

It was found that at low tide there was only four feet of water on the rock. It was a pumice rock, 20 feet across at the top by 50 at the base. A buoy was at once placed near the rock, and every day we sent out of the harbor a boat to bring the signal home.

The current observations were made with fiance, which were made of pine rods about two inches in diameter and from 10 to 30 feet long. On one end of each rod was placed a thin signal, so painted as to indicate the depth of the other end of the rod, which was weighed down so as to bring the signal down to within about four feet of the surface of the water. These floats were weighed on the deck and put out in the ocean, at different places and at different stages of the tide. The boat would come follow them, and the observations on them would be made about every half hour. In this way we could get the path of the boat and determine the direction of the current.

Our work was completed by spending about two weeks in finishing our copying and our mapping, our copies were sent to the United States engineer at Portland, Oregon.

Relics of Indian Belief.

A. F. Weeks, '90, of the Colchester Literary Society.

One bright September day, with a company of friends, we started north, running obliquely to the beach. The girls, one by one, decided they did not care to walk and laid their novel.aws in the bottom of the boat, and we left the cabin; others went below to enjoy the comforts of a soft berth; and still others, as the sun rose, sat down on the deck near the rail, and—you know the rest. We stayed out about an hour and then went in. The breakfast was good and the elegant lunch prepared was not touched. The girls never wanted to go again.

After completing the work of sound-
The San Jose Scale.

Prof. W. R. Barrows.

Much uneasiness has been felt for a year or more among Michigan farmers, from the observation that the San Jose scale has become prevalent in the fruit trees, as well as on currant, gooseberry, and other shrubs and trees. It is this fruit tree pest, which is familiar to every person who has lived in the United States, and to which attention is called at this time, that has been the subject of recent researches, and the results of which are about to be given.

The San Jose scale is a species of the family Hemiptera, or the true bugs, and is found in the United States from New York to Texas, and from Massachusetts to Texas. It is found in the United States from New York to Texas, and from Massachusetts to Texas. It is found in the upper peninsula of Michigan, and it is found in the lower peninsula of Michigan, and it is found in the southern counties. Beets whose juice contains 12 per cent of sugar can be grown in this state, and the quality of sugar that is produced in this state is equal to that produced in any other state in the Union.

The outlook from the farmer's side is bright, and the future of sugar beet industry in this state is promising. The climate of our state, the value of a new cash crop, and the demand for sugar are favorable factors.

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Port Huron, Chicago and other cities to subsidize false claims.

One of the results of Detroit followed with an able and scholarly paper, illustrated by means of carefully prepared charts. Among the most striking things brought out was the fact that in European cities having a filtered water supply the death rate is not much more than half that of American cities that do not have such a supply. Munich now has an average death rate from typhoid fever of 7 in 100,000. In 1854, before the introduction of filtered water, the rate was about 240. He also showed a marked reduction between drinking contaminations in the Black river at Port Huron and the typhoid death rate in Detroit. Detroit gets water from the Detroit river.

The same paper, presented by H. E. Riggs of Toledo, Ohio. Mr. Riggs concurred in what the others had said, and made a strong plea for state legislation to stop the contamination of wells, springs and streams. Much of defensive sewage he attributed to the erroneous idea of municipal engineers.

The reports were discussed by Dr. Wilbur, Dr. Baker, Mr. Rogers, Mr. Appleton, and others, after which the audience adjourned.

Afternoon Session.

The afternoon session was called to order after a considerable delay, occasioned by a visit of the society to the mechanics' shops. The first paper on the program was an address on "Highway Bridge Legislation," by C. C. Pashby, in which he showed the importance of highway bridge legislation and its proper enforcement. He also showed a marked relation between the number of bridges and the typhoid dearth in cities that do not have such a supply.

The third paper was presented by Dr. Appieton, and others, after which the meeting adjourned at 5 o'clock.

Is the Credit System Beneficial to the Farmer?

By H. M. WELLS, '85.

Read at the Livington Co. Farmers' Institute at Howell, Jan. 10, 1896.

I read this with the falling inflection, for it is a question that cannot be answered by yes or no. In some cases it is, and in others it is not, depending on the farmer and the extent of his credit. I venture to say that just as many of us would be better off without the services of a competent engineer, and that very seldom inspection of the buildings would have been made. But the time has yet come for the proper legislation upon this important matter, but that meanwhile an educational campaign should be carried on in behalf of the persons having such matters under their charge, and that the knowledge of them should be available in all communities and Agricultural College engineers should be employed whenever it is practicable. A division which followed, Mr. Clair, a member of the legislative committee on highways and bridges, led, and outlined briefly a bill which he had introduced before the legislature during its present session. According to his scheme, all the roads in the state divided into three divisions, which will be presided over by a competent person elected by the voters of the township.

John F. Nellist, with 50c, of Grand Rapids, next read a paper on "Roads in Southern Michigan." The article was well illustrated and showed the various original state and territorial roads and the parts of those roads which are now other gravel or planks. There are thirteen such roads crossing the state, six from east to west and seven from north to south. A greater part of these roads is divided by the more important trade centers of the state. The total length of these thirteen roads is about 2,200 miles, of which about 900 miles are of gravel. Of these, the one running from Detroit to Holland via Lansing and Grand Rapids is 126 miles in length and 120 miles of gravled road and is the most improved.

"Notes and Observations," by A. L. Wescott, concluded the afternoon program. In this paper were given descriptions of some methods employed in the mechanical laboratory, together with the results of experiments made to determine the tension strength of various materials. One of these was the use of a 12-inch wheel and beans may doubt the advantages of even this form of cement.

However, I suppose the secretary referred more particularly to the practice of running accounts at the rate to the state at some distance from the city, in the future, maybe six months or a year from the time of starting the account. Such accounts, in the judgment of the farmer and the credit of the cash for them when we took possession, but you who bought farms when prices of farm products were competitive and are paying 50c wheat and beans may doubt the advantages of even this form of cement.

In conclusion I may say that if the merchant will make no difference between a man who pays cash and a credit transaction, and the farmer has a level head so as to buy anything but necessaries, the credit system is all right. And if the merchant will make any adequate reduction for cash, the farmer is likely to buy unnecessary articles, the credit system is a system for the man who can get the better deal.
THE M. A. C. RECORD.
JANUARY 28, 1887.

The Landlord's Joke.

Really Cheery Rules That Prevail in a Fremont Hotel.

Prof. A. A. Cravle of the Agricultural College, who is conducting a series of farmers' institutes in various parts of the state, spent Sunday here with his brothers. He had just come from Fremont, and had with him a curiously in the shape of a "Hotel Rule for Guests," which he found conspicuously posted in the Hotel De Hans of that place. They were as follows:

"To $8.00 per week. Meals except. Breakfast at 6, dinner at 6, supper at 7. Guests are requested not to converse with the donkey while he is being called can have "self raising flour" as follows:

"Guests wishing to get up without being wakened can have "self raising flour" for supper.

"The house is surrounded by a beautiful cemetery. Hearses to hire at 25 cents per day."

"Guests wishing to do a little driving in the neighborhood are requested to call at the office and try the carriages for the day.

"If you are fond of athletics and like a little exercise, there are plenty of chances for it here."

"If your lamp goes out take a feather and see the fire escape."

"Don't worry about paying your bill, it will be charged to your room."

"If your room gets too warm, open the window and see the fire escape."

"The house is supported by its foundations, which are visible through the window."

"There's a flower garden in the west court yard, and the window box is full of "self raising flour.""

"The house is a large one, with a lot of rooms, and the price is lower than you'll find anywhere else."

"If you are fond of books, there is a library in the west court yard."

"Guests wishing to have their rooms cleaned are requested to call at the office."

"This is the only profitable feature of Agriculture. Properly conducted it always pays well, and must pay you. You need a Separator, and you need the BEST,—the "Baby." All styles and capacities. Prices, $75. upward.

"Send for new 1894 Catalogue.

74 CORTLANDT STREET.

THE DE LAVAL SEPARATOR CO.

THE M. A. C. Grange—Meets every three weeks on Thursday evening in the middle ward of Wells Hall, at 7:00. Mrs. J. L. Snyder, President.

The Book of Esther will be read."

The following rules, which are found conspicuously posted in the Hotel De Hans of Fremont, are as follows:

"If you never made a mistake:

And get in the wrong place try Thompson & Van Buren for your next job of printing.

"IF YOU NEVER MADE A MISTAKE"

"IF YOU MADE A MISTAKE"

"OTTAWA STREET EAST"

The MAUD S WIND MILL AND PUMP COMPANY

YORK.

THE MICHIGAN SUPPLY COMPANY

PHONE 192

J. G. REUTTER

322 Washington Ave. South

FRESH AND SALT MEATS

THE OUTFITTER.

"THREE NINETY-FIVE

FOR ANYTHING IN HARDWARE, STOVES, TINWARE, GRANITE WARE, CUTLERY, ETC.

FOR ANYTHING IN LIBRARIES...

"...MORTON'S HARDWARE...

"...COLLEGE BUS...

"...COLLEGE BUS...

"...COLLEGE BUS...

He is a Smart, "Penny-a-Pound" meat market man, and will be glad to offer you every year. Why continue an inferior system at nearly twice the price when you can get it at half the price? Our Markets are in and see it.

We are Headquarters for all Kinds of Home-Made Sausage.

Allow me to show you some natty "Up to Date" styles. Nothing but reliable qualities find place in my stock.

SCHOOL WARES, ETC.

"COACH MAKER IN STEEL WIND MILLS AND PUMP COMPANY.

THE OUTFITTER.

3.95

We are closing all broken lots of fine English Enamel, Patent Leather, Cordovan and Winter Russia. Shoes at the uniform price of THREE NINETY-FIVE a pair.

We do not agree to furnish all sizes and widths in all of the kinds, as some are sold out, but what we have are yours at the price named.

C. D. WOODBURY

103 WASHINGTON AVENUE SOUTH.
News from Graduates and Students.

Miss Anna Cooper, with '94, is attending a Bible Institute in Chicago.

Miss Myrtle Pushaw, with '96, is teaching near her home at Costantine.

Miss Grace Marshall, '00, has just recovered from a severe attack of consumption of the brain.

A. A. Myers, Steger, Mich., salutary student 1865, has made the misfortune to lose his cowman by fire.

Ben. H. Holstein, with '97, is assistant author of the recently college paper at Bloomington, Ind.

Prof. Chas. McKeeeney, '81, is the popular principal of the Central Illinois Normal school at Mt. Pleasant.

W. F. Pack, with '91, Centerville, and J. Feers,Colon, called on Mr. Pushaw this Thursday. They were on their way to Saginaw.

F. P. Clark, '91, was paid a visit Friday, and told of some of the pleasant hours he spent in the combination rooms, 27 and 28, Williams Hall.

As C. J. Foreman, '94, was getting into a buggy to go to the train for his Christmas vacation, he suddenly stopped, and made him a handsome Christmas present. Mr. Foreman is reported as having hatching success at Centerville.

We hear that Jos. F. Merkel, with '95, has been promoted to the draughting office of the E. J. Mills Co. of Milwaukee, Wisconsin. Jos. F. Merkel has been "furnaced out" in their machine shop since last July, and feels quite elated over his new position.

The Van Buren County Farmers' Institute held its 12th annual session at Bangor Jan. 20 and 21. C. J. Monroe, with '91, was president of this institute three years, C. B. Charles, '79, one year, and next year W. H. Goss, of '92, will be president and Geo. C. Monsen, '91, vice president.Geo. Monroe was also secretary for the past two years. The next institute will be in Gobleville.

Frank Hodgman, '92, Climax, Mich., secretary and treasurer of the Michigan Engineering Society, held in Lansing on M. A. C. Jan. 21-22, was in attendance, as he always has been. F. P. Rogers, '87, Port Huron, Mich., and city engineer of that city for some years past, was also in attendance at this meeting. An old member of the faculty wants the privilege of saying that he is very much pleased with some of the work that the students are doing, as one of them has written to him that a course in agricultural topics will be furnished promptly upon application to the Secretaries of the Farm Home Reading Circle.

WILLIAM S. HOLDWORTH, M. S., Assistant Professor of Drawing.

PHILIP B. WOODWORTH, B. E., M. E.

Assistant Professor of Physics.

ALVIN B. NOBLE, B. Ph.

Assistant Professor of English Literature and Modern Languages.

CHARLES F. WELLER, B. S.

Assistant Professor of French.

WILBURN O. HEDRICK, M. S., Assistant Professor of History and Political Economy.

WARREN RABBOCK, Jr, B. S., Assistant Professor of Mathematics.

EDITH F. MCDERMOTT, Professor of Domestic Economy and Household Science.

MRS. LINDA E. LANDON, Librarian.

E. W. MUMPORD, B. S.

Assistant Professor of Agriculture.

R. H. P. FISHER, B. S., T. A.

Instructor in Zoology.

A. L. WESTCOTT, B. M. E., Instructor in Mechanical Engineering.

DICK J. GROB, B. S., Instructor in English.

MERRITT W. FULTON, B. S.

Instructor in Agriculture.

BURTON O. LONGYEAR, Instructor in Botany.

CHIUS C. PASHBY, B. S., Instructor in Mathematics.

GORDON H. TRUE, B. S., Instructor in Botany.

CHARLES E. MARSALL, Ph. B., Instructor in Bacteriology.

H. E. SMITH, B. S., Instructor in Mechanical Engineering.

E. L. BUTTERFIELD, B. S., Sept. Farmers' Institutes and College Field Agent.

D. R. BALDWIN, Engineer.

THOMAS GUSSON, Foreman of Greenhouses.

F. C. KENNEY, Assistant Secretary.

B. F. WITTWER, Foreman of Greenhouses.

W. S. LEONARD, Foreman of Machine Shops.

THOMAS DURKIN, Foreman of the Horticultural Department.

CHARLES E. HOYT, Foreman of the Wood Shops and Foundry.

E. S. GODD, Clerk to President.

CHASE NEWMAN, Clerk of Mechanical Department.

Station Council.

Clifton D. Smith, M. S., Director and Agriculturist.

Jonathan L. Bayder, Ph. D., President.


R. T. Taylor, Lapeer, in charge of Sub-Station.

Sub-Station.

Graying, Crawford county, 80 acres deeded.

South Haven, Van Buren county, 10 acres rented; 5 acres deeded.

THE M. A. C. A. C. RECORD.

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