

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 12.

Landon Mrs LE

LANSING, MICHIGAN, TUESDAY, APRIL 2, 1907.

No. 28



PROF. G. W. BISSELL.

We take pleasure in presenting to the RECORD readers a half tone of Prof. G. W. Bissell, of Iowa State College, who has been elected to the position of dean of engineering and professor of mechanical engineering in this institution.

Prof. Bissell graduated from Cornell University in '88 with the degree of M. E., and for three years was instructor in experimental engineering at Sibley College, Cornell. In 1891 he was elected to the position of assistant professor of mechanical engineering at Iowa State College, advanced to full professorship in 1892 and made vice-dean of engineering in 1904, which position he resigns to accept the position named above.

Among the scientific societies with which he has been connected are: Sigma Xi, American Society of Mechanical Engineers, American Institute of Electrical Engineers, American Society for the Advancement of Science, Society for the Promotion of Engineering Education, National Association of Stationary Engineers, Iowa Engineering Society, and Iowa Electrical Association. He has been a contributor to various of the above societies and to the technical press. He has also traveled extensively in this country and in Europe, and has a large acquaintance among practitioners and teachers of engineering. Prof. Bissell comes to M. A. C. with the very best of recommendations. With a Dean, and a new building our engineering department will surely be on an excellent footing. Mr. Bissell has been spending several days at the College this vacation, and will take up his work and residence here probably about the first of July. He will live in the house on Faculty Row, formerly occupied by Prof. Weil.

The following paragraph is taken from the *Ames Intelligencer* (Iowa) under date of Thursday, March 7: "Prof. Bissell's loss will be keenly felt by the college and people of Iowa. He is one of the best men in the engineering faculty, and has been a great favorite with students. While his many friends here wish he might remain, they will join hands in wishing him success in his new field."

NONESUCH BROTHERS' CIRCUS.

As stated in last week's RECORD the big circus of the Nonesuch Brothers will make their third annual visit to M. A. C. on Saturday, April 6, 1907. The show promises to be larger and better than ever this year, and everyone will, of course, want to see it. The parade will be especially good as a great amount of time has been spent in getting the material in shape. A free exhibition is also to be given on the show grounds immediately before the performance begins. A large circus tent will be erected at the end of the armory for the side shows and menagerie. There will be performances both afternoon and evening with "concert attachment," and almost an entire change of program for the two. The various booths will be in evidence so that the "country people" will not want for candy, peanuts and red lemonade. The parade will be in line soon after one p. m. Come early and see it all.

Y. M. C. A.

At the beginning of the spring term the new officers for the association take their positions for the coming year. The work of the association, under the guidance of the old officers, has progressed encouragingly during the past year, and with the new officers in charge there should be a continued growth in the coming year.

The association has made no phenomenal growth during the past year, nor has it quite come up to the mark set last fall, yet there has been a general improvement in the work.

The spring term has always been the hardest term in the year in which to keep up interest in the various activities of the association, but with the coming in of the new officers and the appointment of new committees it is expected that there will not be a lagging in the work of the Y. M. C. A.

F. M. Barden, the new president, will have charge of the meeting Thursday evening; let every one attend this first meeting of the term.

Mr. E. N. Bates, I. B. Schrotter, W. D. Frazer with Mr. Webber spent three days of the vacation at Clayton, Mich., helping Mr. Hurst in his county Y. M. C. A. work. These vacation trips, which have been made by the men of the association for two or three spring vacations in the past, have always been very pleasant and profitable, and the one taken this spring was no exception. The people of Clayton were very hospitable indeed, which was most emphatically shown by the sumptuous meals that were placed before us. Club board, good as it is, cannot be compared to those meals put up by the good farmers of Lenawee county. But this was the least of the many pleasant things. The sincere cordiality and their evident interest in our singing

and speaking more than repaid us for what efforts we may have made. Whether the people of Clayton were benefitted, or the Lenawee county Y. M. C. A. derived any good from our visit cannot be determined. Those of us who had this vacation experience were greatly helped. This experience was all the more delightful because we were accompanied by Mrs. F. R. Hurst and Miss Nelle Stringham, former Alma graduates, and we are sure that certain members of the party will not soon forget this pleasant vacation experience.

BASE BALL.

The prospects for a winning base ball team are as good as ever, although in the absence of Boyle a catcher will have to be developed. This, of course, will be the hardest place to fill. There are, however, several catchers in school in the class teams from which to draw, the most promising of whom is Crissey, '10. We also have Capt. Canfield, one of the best college catchers in the country to fall back upon in case a suitable candidate cannot be found. He has played second base three seasons and can hardly be spared from the infield. Of other old players we have Kratz for first base and the entire outfield Ellis, Thatcher, and Dickson. For pitchers there are Nies, Akers and Shaffer. The first game of the season is scheduled at Olivet for April 13. The most interesting perhaps of all the games will be the ones with the U. of M. April 18-20, and on May 29.

The following is a draft of the schedule which will be presented to the faculty for acceptance:

April 13, Olivet at Olivet.
" 18, 20, U. of M. at M. A. C.
" 30, Alma at Alma.
May 6, De Pauw at Greencastle.
" 7, Notre Dame at N. D.
" 8, Kalamazoo at Kalamazoo.
" 11, Alma at M. A. C.
" 15, Hillsdale at M. A. C.
" 17, Ypsilanti at Ypsilanti.
" 18, Kalamazoo at M. A. C.
" 23, Hillsdale at Hillsdale.
" 29, U. of M. at M. A. C.
June 1, Olivet at M. A. C.

COLUMBIAN.

A very enjoyable vacation party was given in the Columbian rooms last Friday night by the young men who spent their holidays at college. Splendid music by Mr. Baker, a delightful moonlight night and a jolly crowd were the factors which made the affair a success. Dancing began at eight thirty and lasted until twelve so that the downtown guests could catch the last car. Mr. and Mrs. Brewer added to the pleasure of the evening by kindly acting as chaperons.

Rev. Horace Cady Wilson, of the First Presbyterian church, will speak in the chapel Sunday morning.

ALUMNI.

'79.
John Q. Thomas is with a furniture firm at Junction City, Kansas.

'84.
Archie W. Sutton is engaged in farming at Morenci, Mich.

'89.
Lindsay W. Rice is shipping clerk with George H. Reeder & Co., 28-30 South Ionia street, Grand Rapids, Mich.

'93.
Elmer B. Hale is farming near Caledonia, Mich.

'02.
Frank G. Carpenter is in the construction department of Swift & Co. with present address at Hutchinson, Kansas.

'02.
Announcements have been received of the marriage of Mr. George D. Francisco, of the above class, to Miss Carrie May Grenoble, at Chicago on Wednesday, March 20. Mr. and Mrs. Francisco will be at home to their friends after May 1, at 432 E. Forty-sixth street, Chicago. Mr. F. is a mechanical engineer with the Municipal & Contracting Co., 609 Ry. Exchange Bld.

'04.
President Snyder is in receipt of the announcement of the '07 graduating class of the Chicago Veterinary College. Among the members we note the name of A. B. Rogers, a graduate of M. A. C. in 1904.

'04.
George C. Morbeck is now at work for a large timber company located at Spokane, Wash., and enjoys his work very much. He states that timbered land in that region sells as high as \$17000 for 160 acres.

'06.
The Board of Regents having control of the Oklahoma Agricultural College have separated the departments of animal husbandry and dairying, created a separate department of dairy husbandry and elected Roy C. Potts to the professorship. The salary is to be \$1200 per. Congratulations Mr. Potts. Serves you right!

With '06
Don O. Stayton is with the Pope Motor Car Co. at Indianapolis, Ind. His private address is 604 N. New Jersey street.

'06.
Leslie M. Sanborn is drafting for the King Bridge Co. of Cleveland, Ohio. His address is 6304 Hawthorne Ave., Cleveland, Ohio.

The shrubs in the large bed between the Women's Building and the Library are to be used as a screen for the tennis courts, and the bed used for pansies.

THE M. A. C. RECORD.

PUBLISHED EVERY TUESDAY DURING THE COLLEGE YEAR BY THE MICHIGAN STATE AGRICULTURAL COLLEGE

B. A. FAUNCE, MANAGING EDITOR
 ASSOCIATE EDITORS.
 MAUD FERGUSON, '07
 G. A. HEINRICH, '07
 A. GARCINAVA, '08
 G. S. VALENTINE, '08
 R. G. CARR, '08
 FLORENCE HALL, '09
 B. B. PRATT, '09
 H. L. CANTRICK, '09
 W. D. FRAZER, '09
 ALLEEN RAYNOR, '09
 R. J. ALVAREZ, sp

Subscription, - - - 50 cents per year.
 Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.

Address all subscriptions and advertising matter to the College Secretary, Agricultural College, Mich. Address all contributions to the Managing Editor.

Business Office with Lawrence & Van Buren Printing Co., 122 Ottawa St. E., Lansing, Mich.
 Entered as second-class mail matter, Lansing, Mich.

This paper is occasionally sent to non-subscribers. Such persons need have no hesitation about taking the paper from the post-office, for no charge will be made for it. The only way, however, to secure the paper regularly is to subscribe.

TUESDAY, APRIL 2, 1907.

SOCIETY OFFICERS FOR THE SPRING TERM.

ALPHA ZETA.

Chancellor, W. B. Liverance.
 Censor, O. K. White.
 Scribe, F. M. Barden.
 Treasurer, W. A. Hopson.

AUROREAN.

President, L. J. Myers.
 Vice Pres., R. J. Alvarez.
 Secretary, L. V. Belknap.
 Treasurer, J. M. Walkup.
 Sergt. at Arms, M. P. Charlton.
 RECORD Edtr., Maurice Dewey.

COLUMBIAN.

President, W. E. Piper.
 Vice Pres., C. W. Edwards.
 Secretary, R. W. Taylor.
 Treasurer, R. H. Gilbert.
 Marshal, W. B. Orr.
 Secretary of Records, J. R. Dice.

ECLECTIC.

President, G. C. Dudley.
 Vice Pres., G. B. Hayes.
 Secretary, A. T. Barley.
 Treasurer, B. B. Pratt.
 Marshal, R. L. Taylor.
 Librarian, W. G. Palm.

ERO ALPHIAN.

President, Helen Ashley.
 Vice Pres., Alleen Raynor.
 Secretary, Irma Himmelberger.
 Treasurer, Minnie Johnson.
 Marshal, Leona Lee.
 RECORD Editor, Katherine Clark.

EUNOMIAN.

President, E. A. Towne.
 Vice Pres., E. I. Wilcox.
 Secretary, H. L. Cantrick.
 Treasurer, O. W. Stephenson.
 Marshal, S. C. Hagenbuch.
 RECORD Edtr., H. H. Musselman.

FERONIAN.

President, Loreta Boies.
 Vice President, Ruby Newman.
 Secretary, Mary Baldwin.
 Treasurer, Margaret Kedzie.
 Marshal, Thora Brandbery.

HESPERIAN.

President, T. H. McHatton.
 Vice-President, R. S. Canfield.
 Secretary, F. E. Wood.
 Treasurer, C. W. Dunlap.
 Registrar, A. Boettcher.
 Marshal, R. J. Hutton.
 RECORD Editor, A. Garcinava.



NEW ENGINEERING BUILDING

The above half-tone shows to the RECORD readers something of how our new Engineering Building appears at this time. As will be seen the building is five stories in height and will be altogether perhaps the handsomest one on the campus. The fifth story with its skylights will make excellent drawing rooms and in fact there will be very few unpleasant rooms. There will be

commodious quarters for the departments of Mechanical, Civil and Electrical Engineering, the building to contain something like forty class rooms and laboratories.

At the present time the heating system is being installed. The picture was taken from a point just north of the east end of Wells Hall.

OLYMPIC.

President, A. H. Chase.
 Vice-President, C. E. Merwin.
 Secretary, F. K. Webb.
 Treasurer, J. S. McDevitt.
 RECORD Editor, B. B. Clise.
 Marshal, M. H. Bleech.

PHI DELTA.

President, T. M. Hooper.
 Warden, M. E. Hall.
 Secretary, C. Rogers.
 Treasurer, A. L. Snyder.
 Marshal, W. C. Morris.
 RECORD Editor, D. Moomaw.

SORORIAN.

President, Theo Goodwin.
 Vice-President, Hazel Beard.
 Secretary, Helen Esselstyn.
 Treasurer, Blanche Bair.
 Marshal, Edith Langenbacher.

TAU BETA PI.

President, A. C. Pratt.
 Vice-President, C. M. Cade.
 Secretary, L. E. Smith.
 Treasurer, G. B. Hayes.
 Cor. Secretary, S. B. Lilly.
 Bent Editor, M. F. Johnson.

THEMIAN.

President, Inez Kinney.
 Vice-President, Mabel McDowell.
 Secretary, Amy Hurlburt.
 Treasurer, Wilhelmina Bates.
 Marshal, Florence Probart.
 RECORD Editor, Ethel Curtis.

UNION LITERARY.

President, M. F. Johnson.
 Vice President, C. B. Norton.
 Secretary, J. S. Welles.
 Treasurer, R. J. Carr.
 Janitor, H. I. Glazier.

MAINE FORESTRY ASSOCIATION.

A call was made recently by the governor of Maine for a meeting at Augusta for the purpose of organizing a State Forestry Association. The *Bangor Daily Commercial* mentions the importance and significance of such a meeting, and the

men who have brought it about and adds:

"It must be said, however, that this call is the result of much preliminary work of fine character performed by Prof. Tower of the chair of forestry at the state university—one of the most important, by the way, in the curriculum of the university, and one too often overlooked by those who speak of the splendid work the university is doing for the protection of the best material interests of the state.

"In December last Prof. Tower published a treatise on forestry in its relation to the welfare of the state which was issued as one of the bulletins of the university through the assistance of the state forestry bureau at Augusta. This admirable treatise of Prof. Tower took up the general question of forestry conservation, showing the value of forests to the state, the losses through forest fires, many of which might be prevented, telling what other states are doing in forestry economy, showing the need of a forestry association in Maine and the classes to be benefitted by its work.

"Large numbers of this bulletin were sent out all over Maine. As a result of this work, more than 200 replies have been received from persons who wish to be enrolled as charter members of the proposed state association."

THE DEPARTMENT OF AGRICULTURE AND THE RURAL SCHOOLS.

Realizing the need of better education along agricultural lines the national department of agriculture has been devoting some effort toward the promotion and organization of agricultural high schools, consolidated with common schools to secure a high state of prosperity and contentment in rural life. Present indications are that if the investigations of this department are

favorable, some move may be made in the near future toward the general introduction of elementary agricultural instruction in the common schools of the country from this source. While a scheme of this kind would seem to be somewhat impractical and unwieldy, yet the value of such instruction in case it could be conducted along right lines can scarcely be estimated. It would seem, however, that this work could be best inaugurated under the several state educational systems, with the aid and co-operation of the agricultural colleges and experiment stations of the several states. In this way the national department might extend valuable aid through the experiment stations and the work be made to conform with the regular school work carried on under the general educational system already in operation better than in any other way. But however it may be worked out this is one of the great educational problems of the day, and its solution along practical lines should be accomplished within a generation if the agriculture of our nation is to keep pace with the increase in population which will inevitably occur within that time. Something of this kind is needed to enthuse our young people with the possibilities and attractions of the farm.—*Michigan Farmer*.

FLOWING WELLS AND WATER SUPPLIES OF MICHIGAN.

Two valuable reports on the flowing wells and municipal water supplies of the southern peninsula of Michigan have just been issued by the United States Geological Survey as Water Supply and Irrigation Papers No. 182 and 183. The investigations made by the water resources branch of the geological survey show that there are about 200 districts scattered all over the state in which water may be obtained without pumping. These districts are described in detail and their essential characteristics, present state of development and probable capacity for future development are fully discussed. The quality of various classes of waters both surface and underground, as well as water supplies of cities and villages, has also been given attention.

In addition to the detailed discussion of water conditions, each of these reports, which may be obtained on application to the director of the United States Geological Survey, Washington, D. C., contains a general map showing the location of the areas in which flowing wells may be obtained and many diagrams showing the positions of wells and the artesian conditions in particular areas. Each of the reports mentioned is complete in itself. Water Supply Paper No. 182 "Flowing Wells and Municipal Water in the southern portion of the Southern Peninsula of Michigan," contains a description of the conditions in the area south of the northern borders of Ottawa, Kent, Montcalm, Clinton, Ingham, Washtenaw, Oakland, Lapeer, and St. Clair counties. In Water Supply Paper No. 183, "Flowing Wells and Municipal Water Supplies in the northern and middle portions of the Southern Peninsula of Michigan," are discussed the artesian flows in the region north of the above mentioned counties.

"JUST AS GOOD"

means taking chances, it doesn't pay in buying

CUTLERY AND TOOLS

We Sell Reliable Makes

NORTONS HARDWARE

111 Wash. Av. South.

EVERY KIND OF

FURNITURE

FOR YOUR ROOM.

Cots Folding Beds

Matresses

Book Cases Desks

All Goods Delivered Free.

M. J. & B. M. Buck.

WHEN you are considering the question, naturally you cast about for the place where you can get the latest styles and best quality. You may not know it but we feature that department of our business and are always in position to show you the latest creations. Same applies to our CAP STOCK, in fact you will find all the late furnishings at

MIFFLIN'S

THE JEWETT & KNAPP STORE

Where you will find the largest and most complete stock of

Women's Misses' and Children's Ready-to-wear Garments, Knit Underwear, Hosiery, Gloves and Ribbons. All the new things in Laces, Embroideries, and Wash Goods. : : :

See our New Silks, Dress Goods and Trimmings. If you want an Exclusive Gown or Suit, go to Lansing's Reliable Store. : : :

JEWETT & KNAPP

220-222 AND 224 WASHINGTON AVENUE SOUTH, LANSING, MICHIGAN.



Easter Footwear Showing

This is the Footwear Season of the year. The newest and daintiest foot coverings for Spring and Summer are for your choosing. Come and see them.

PARTY SLIPPERS \$1.50 to \$3 PAIR

C. D. WOODBURY'S
SHOE STORE

H O L L I S T E R B L O C K

A B O U T T H E C A M P U S .

Secretary Brown spent a couple of days at Schoolcraft the past week.

A. H. Freyer, of Fremont, was the guest of his brother-in-law, ye editor, over Sunday.

Several of the small pines north of the postoffice are being removed to other parts of the campus.

M. A. C. has won the mile relay race five years in succession, the 1905 team holding the record.

Saturday will be a big day at M. A. C. when the circus arrives. Let's all go and "see it unload."

F. H. McHatton, '07, has returned from his southern trip and will resume his studies this term.

Instructor Foster and his senior students have been busy making cheese during the spring vacation.

Instructor McWethy has an article on Corn Smut, in a recent number of the *Michigan Farmer*.

The members of the Eclectic Society moved into their new building the past week. It is certainly a fine home.

Prof. Fletcher will speak before the Grand Rapids Horticultural Society, April 6, on pruning and grafting.

Instructor Newman, of the Department of Drawing, spent Friday and Saturday at his old home in Portland.

The big steam road roller began its work the past week and after the heavy rains some good work was done with it.

Miss Lulu Newlon who took special work during the winter, will resume her work at the State Normal this spring.

Mr. and Mrs. Wilcox, Mrs. Bogues' father and mother, are visiting their son in Columbus, Ohio, for a few weeks.

Miss Kate Coad, '05, spent an hour at the College on Saturday. She is enjoying her work in Saginaw very much.

The Forestry Department is taking advantage of the good weather and planting an acre of trees on the east end of No. 19.

President Snyder has been requested to read a paper at the meeting next July of the National Educational Association.

And now we're on the "home stretch." Tell your friends about the semi-centennial and that they can't afford to miss it.

The State Board of Agriculture holds its regular meeting in the State Board Rooms at the College Wednesday, April 3.

Mr. Thomas Farmer, of Grand Blanc, and Mrs. B. S. Cole, of Battle Creek, are visiting at the home of Instructor and Mrs. Sanford.

Prof. L. H. Bailey, Cornell, is getting out a cyclopedia of agriculture and has sent Prof. Bogue several articles for inspection and correction.

The cinder track on the athletic field was put in excellent condition during vacation. The rains prevented finishing the work on the diamond.

Quite a delegation of M. A. C. people attended sessions of either the Academy of Science or Schoolmasters' Club held at Ann Arbor last week.

Mr. John F. Nellist, of Grand Rapids, will speak before the Hort. Club April 10. His subject will be "Opportunities in Greenhouse Horticulture."

Since 1896 M. A. C. has won the track banner each year at the state meet. In '96 Albion won the banner and M. A. C. had to be content with last place.

March, 1907, compares very favorably with the same month in 1906 with regard to weather conditions. The reports show a difference of 17 degrees in the mean maximum temperature.

Mr. Chandler C. Taylor, '09, spent Saturday, Sunday and Monday in Albion, where he is investigating the huckleberry prospects. He is negotiating with the McCormick people for a new picker which will undoubtedly keep him busy the entire summer.

We regret to announce the death on March 25 of Mr. R. W. Ashley, of Davison, father of M. B. and Miss Helen Ashley. Mr. Ashley had been ailing all winter and grew much worse just before vacation, when both his son and daughter were called home.

A letter from Prof. Fletcher's brother states that Mr. McGugan arrived safely. Mr. Fletcher immediately sent him to a friend at

Mesa Grande, which is about 1,000 feet above sea level. Here he will remain for a few weeks until strong enough to work when he will go out on the ranch of Mr. Fletcher.

Prof. Fletcher and Mr. Gunson visited the greenhouses of F. M. Strong, Grand Rapids, recently to look after the experiments on sterilizing and sub-watering lettuce soil. The experiments carried on are very satisfactory, and the growers are taking a keen interest in the subject of sterilization for the prevention of disease.

The trees and shrubs on the campus infested with the San Jose scale were sprayed with the lime-sulphur wash last fall and the dose was repeated last week. There is now little danger of its spreading. About five-sixths of all the plants infested are the Japanese quince. It is the purpose to remove the most of these at the end of the season, as they are a constant source of infestation to other plants. The orchards have all been covered with the same spray.

The Hort. Club plans to give an informal reception on Wednesday, May 29, to graduates and friends of the College who are interested in horticultural work and who are here for the celebration. It is hoped that among others the following men will be present and say a few words in reminiscence of horticultural work at M. A. C.: Prof. L. H. Bailey, H. B. Collingwood of the *Rural New Yorker*, W. W. Tracey, W. A. Taylor, W. R. Lazenby and C. W. Garfield.

M. A. C. ATHLETIC RECORDS.

EVENT.	HOLDER.	YEAR.	TIME OR DISTANCE.
100 yard dash	H. E. Moon	1904	10 seconds
220 yard dash	H. E. Moon	1904	22 1-5 seconds
	W. E. Russell	1899	
440 yard run	H. E. Moon	1905	53 seconds
880 yard run	Harry Meek	1903	2:05 2-5 minutes
1 mile run	R. H. Waite	1905	4:55 1-5 "
2 mile run	R. H. Waite	1905	10:41 "
120 yard hurdle	W. H. Small	1906	17 seconds
220 yard hurdle	E. B. McKenna	1905	27 1/2 seconds
Running broad jump	H. E. Moon	1904	22 feet
Running high jump	Elmer Nicholson	1905	5 feet 7 1/2 inches
Shot put	C. G. Burroughs	1906	36 feet 2 inches
Hammer throw	Frank Kratz	1904	111 feet
Discus	C. G. Burroughs	1906	105 feet 7 1/2 inches
Pole vault	W. F. Millar	1904	10 feet 6 inches
Mile Relay	H. E. Moon, R. Graham, J. Tryon, O. B. Burrell	1905	3 min. 34 3-5 sec.

The above report is authentic so far as the department has been able to secure the data. If any one has knowledge of records better than those given it is hoped that they will report same and the correction will be made. A history of M. A. C. athletics is being gotten into form and it is desired, of course, to have every item correct and the honors placed where they belong.

BIRD ARRIVALS.

March 22, 1907, first phoebe and first mourning dove; March 23, first flicker or golden-winged woodpecker; March 24, a notable increase in the number of golden-crowned kinglets. (Since a few of these winter with us it was not possible to note the arrival of the first migrants.) March 25, first lesser yellowlegs, first flocks of female red-winged blackbirds; March 26, first cowbirds, male and female, first field sparrows, first vesper sparrows, first chewinks or towhees (males only), first cedar bird or cedar waxwing, first marsh hawk, first hermit thrush. On this date also the first completed crow's nest was found and a considerable number of white-bellied swallows were seen. The blackbird migration was also at its height, thousands being seen during the day. March 30, first fox sparrow and first winter wren, although the latter species occasionally winters here.

W. B. B.

After many years of patient waiting, it begins to look as though we were about to realize our fondest hopes in the shape of the street railway. The ties are being hauled, fences set back, grading commenced and an air of business seems to hang over the entire line this side of town.—*Hesperian Star*, April 30, 1894.

Just look over the list of base ball games and decide whether or not you can afford to miss any of them.

After all is said and done Hillsdale is still the real victor in the recent State Oratorical contest.

The farm department is setting posts in the big yard north of the barns where a park will be kept up.

The farm lane will soon be a "beautiful place to stroll."

The closing of school for the winter term was an excellent one—nothing much the matter with the opening of the spring.

Have you taken a look at those incubators? A hatch of about 90 per cent. is the record of one handled by Mr. Copson.

Quite a lot of work has been done on the plat of Mr. Ehinger west of the College to get it into shape for building lots.

The following table shows the weather conditions for the month of March.

Date	Temperature		Precipitation.	Prevailing Wind	Direction.	Remarks
	Max.	Min.				
1	38	20	.24	S.E.		High Winds
2	39	25	.02	W.		
3	28	13	.02	N.W.		
4	32	12		S.W.		
5	34	18		W.		
6	30	12		N.E.		
7	29	22	.25	S.E.		
8	34	25		E.		
9	32	12		E.		
10	38	10		N.		
11	42	24	.22	S.		Thunder Storm
12	44	35		S.		
13	40	30		N.E.		
14	35	28	.01	N.W.		
15	40	30		S.W.		
16	57	35		S.W.		
17	47	35		N.E.		
18	42	23		E.		
19	54	30	.19	S.W.		
20	46	27		N.		
21	57	29		S.		
22	75	49		S.W.		
23	65	45	.67	S.E.		
24	60	38		N.E.		
25	59	35		S.		
26	70	47	.15	S.		
27	69	55	.60	S.W.		
28	66	47	.15	S.E.		
29	67	49	.32	S.W.		
30	50	45		W.		
31	46	23		N.		

"By teaching and experimenting the only fruitful method of advancing natural knowledge laboratories have overthrown the dominance of authority and dogma and speculation and they have demonstrated that the only abiding knowledge, powerful for right action, comes from intimate, personal contact with the objects of study."—Dr. W. H. Welch of *John Hopkins University*.

For the first time in the history of Muskegon county politics, a woman candidate for the office of county school commissioner (Mrs. Nellie B. Chisholm) won out.

CALL ON
LAWRENCE & VAN BUREN PRINTING CO.
 WHEN IN NEED OF
DANCE PROGRAMS or SOCIETY PRINTING.
 122 Ottawa St. E.



CHARMING DISPLAY OF
 NEW SPRING COATS,
 SUITS, WAISTS, SKIRTS,
 COSTUMES, MILLINERY,
 MUSLIN UNDERWEAR.
Cameron & Arbaugh Co.
 DEPARTMENT STORE.



AND ALL OTHER KINDS OF
 WATCHES, CLOCKS, JEWELRY
 Repairing in a workman-like manner.
H. P. PIPER Will be at the M. A. C. Book Store from 4 to 6 p. m. to receive and deliver work.
 All Work Warranted.

ALL MEATS
 May look alike to you, but there is a very great difference in the quality we handle and that sold by some other markets. We handle none but the very best. Like the pudding, the proof of good meats is in the eating. A trial will convince you that you ought to trade with us.
 We make daily trips to the College.
 BOTH PHONES. Careful attention given to phone orders.
GOTTLIEB REUTER,
 Washington Ave. South.

Stalker Prints
 "Swell" Dance Programs
 Fine Stationery
 and other good things.
 117 Michigan Avenue West
 Ground Floor.

DIRECTORY

LANSING BUSINESS and PROFESSIONAL MEN

The names in this Directory, as well as those of all our other advertisers, are of reliable parties. We hope that the faculty and students will take pains to patronize those who patronize us.

BARBERS.
M. A. C. BARBER SHOP, Rooms in New Bath House. H. A. Sias, Propr.

BOOKS AND STATIONERY.
A. M. EMERY, 116 Wash. Ave. N. Books, Fine Stationery, Engraved Calling Cards, Fountain Pens, Pictures, Frames. Fine Framing a Specialty. Up-to-Date Styles.

BOOK BINDERS
GEO. G. BLUDEAU & CO—Bookbinders Account book makers, paper ruling, library and fine art bindings, file boxes, map mounting, albums, pocket books, etc. Citizens phone No. 56. 109 Wash. Ave. N.

WAGENOORD & CO.—Bookbinders, Blank-book Makers, 116-118 Ottawa St. E.

BOOTS AND SHOES.
C. D. WOODBURY.—Boots and Shoes. We shoe the students. See ad.

CLOTHING.

LOUIS BECK.—Clothier. Gents' Furnishings, Hats and Caps. 112 Washington Ave. North.

CROCKERY AND GLASSWARE.

H. H. LARNED.—China, Glass and Lamps. 105 Washington Ave. S.

DENTISTS.

A. F. GORDON, D. D. S. M. A. C. '91, U. of M. 01. 218 Washington Ave. S. Phone, Citizens 68.

J. E. STOFFER, D. D. S. Office 301 City National Bank Building. Citizens' Phone 1049. Former M. A. C. student.

N. H. MOORE, D. D. S. Office 411-13 Hollister Building, Lansing, Mich. Citizens phone 475.

R. W. MORSE, D. D. S. Hollister Block, Room 517. Citizens Phone 52, Bell Phone 396.

D. E. PARMELEE, Dentist, 117 1/2 Washington Ave. S., Lansing, Michigan. Citizens' Phone, office 275; residence, 261.

DRUGGISTS.

ROUSER'S CAPITAL DRUG STORE, Up to date. Corner store. Opposite Hollister Block.

ROBINSON DRUG CO., successors to Alsdorf & Son, Drugs and Druggists' Sundries. 102 Washington Ave. N.

DRY GOODS.

THE JEWETT & KNAPP STORE. Dry Goods. 222-224 Washington Ave. S.

ELECTRICAL SUPPLIES.

CAPITOL ELECTRIC CO. Electrical Supplies, Telegraph Instruments and Telephones. 11 Mich. Ave., E.

FURNISHING GOODS.

ELGIN MIFFLIN.—Ladies' and Gentlemen's Furnishing Goods. See ad.

FURNITURE DEALERS.

M. J. & B. M. BUCK.—Furniture. Cor. Washington Avenue and Ionia Street. See ad.

HACK AND BAGGAGE LINES.

ORDER your hacks for parties at Carr's Hack Line. Livery in connection. 410 Washington Ave. N.

HARDWARE, STOVES AND TINWARE.

NORTON'S HARDWARE—General Hardware, Stoves, Tinware, Graniteware, Cutlery, etc. 111 Washington Ave. South. See ad.

INSURANCE.

THE DYER-JENISON-BARRY CO., LTD., (Incorporated) Hollister Block. All kinds of the best insurance. Strongest agency in city.

M. A. C. Real Estate Agency. All kinds of real estate for sale or rent. FIRE AND LIFE INSURANCE. Students property insured in dormitories and private houses at lowest rates. Office at College Grocery Building.

JEWELERS.

CHAS. A. PIELLA. Jeweler and Optician. 121 Washington Ave. N., Lansing, Mich.

LEAVE your Fine Watches and Jewelry with J. J. Heath for repairs. He will please you.

LAUNDRY.

THE AMERICAN LAUNDRY solicits a share of your patronage. Remember the number, 309 Washington Ave., S. New Phone No. 420. Julia Findley & Edwin Lewis, Props. S. W. Doty and I. D. Smith, College Agents.

MANICURE AND HAIRDRESSING.

MRS. O. T. CASE—Manicure and Hairdressing Parlors. Ma-querade Wigs for Rent. Switches made of cut hair or combings. The France-American Hygienic Toilet Requisites a specialty. New phone 118, 222 1/2 Washington Ave. S., up stairs.

MUSIC, PIANOS, ETC.

GRINNELL BROS. Pianos, Organs and every thing in the line of music. 219 Washington Ave. N.

M. R. and MRS. GEO. O. CLARK. Violinist and Pianist. Cit. phone 295. Bell phone 75 112 Hosmer St. S. Lansing Mich.

OCULISTS.

CHAS. G. JENKINS, M. D. — Diseases of Eye, Ear, Nose and Throat. Hours, 9 to 12 a. m., and 2 to 5 p. m. Citizens Phone No. 1030. Rooms 203-204 Prudden Block.

JOSEPH FOSTER, M. D., Eye, Ear, Nose and Throat. Hours 9 to 12 a. m.; 2 to 4 p. m.; Sundays, 12 to 1; Evening 7 to 8. Corner Allegan St. and Capitol Ave., Lansing. Both 'phones.

PHYSICIANS.

D. R. H. W. LANDON. Office and residence, M. A. C. Office hours from 7 to 8:30 a. m., and 12:30 to 2, and 6:30 to 8 p. m. Sunday office hours 4 to 5 and 7 to 8 p. m. New phone 1560.

D. R. OSCAR H. BRUEGEL, Hours 9 to 11 a. m.; 2 to 4 and 7 to 8 p. m. 112 and 5 to 6 p. m. Agricultural College, Mich. Citizens phone 1502.

PLUMBERS.

SHIELDS & LEADLEY. Plumbing and Heating. 300 Wash. Ave. N., Lansing. Both Phones.

SPORTING GOODS.

J. H. LARRABEE. Base Ball Goods, Foot Ball Goods, Tennis, Golf, Guns, Ammunition and Fishing Tackle. 325 Wash. Ave. S.