

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 11.

LANSING, MICHIGAN, TUESDAY, FEB. 13, 1906.

No. 21

ATHLETICS.

The M. A. C. basket ball team won another victory Saturday evening by defeating the strong Y. M. C. A. of Grand Rapids on their own floor by the score of 25 to 20. This is the first time Grand Rapids has been beaten on her own ground in three years, and the result is a source of satisfaction to our fellows. The game was closely contested throughout, both teams putting up a splendid game. During the first few minutes of play the Y. M. C. A. was in the lead, but M. A. C. soon took a brace and a lead which they held throughout the game. The usual line-up played. The boys report a fine trip and excellent treatment at the hands of their opponents. M. A. C. summary: Baskets, Krehl 3, Vondette 4; Dixon, Waterman, and Hanish each 1. Free throws, Krehl 5.

The first indoor meet of the season was held Saturday afternoon and was quite successful. There were 30 entries for the dash, those winning for the final heat being Graham, Verran, Phippeny, Pearsall, Small, and Oviatt. Graham won first with Verran second.

The hurdle was won by Small, Pearsall 2nd and Oviatt 3d.

High jump—Graham 1st, Gongwer 2d, Hatfield 3d. Height 5 ft 3 in.

High dive—Gongwer 1st, Small 2d, Verran 3d. Height 5 ft 7 in.

Shot put—Burroughs won first.

To end the sports, a relay captured by Small and Pearsall was pulled off. There were 15 men on a side, Small's team winning out.

In answer to the call for base ball candidates on Saturday 70 men responded. Of the last year's team we have Boyle and Burroughs, catchers; Nies, Shaffer, and Boyle, pitchers; Canfield and Armstrong, infielders. Not much is as yet known of the new men, but all started in with a will and it is expected that no trouble will be experienced in getting players to fill the vacancies.

LANSING H. S. TAKES FIRST GAME BY CLOSE SCORE.

The M. A. C. hockey team met defeat at the hands of the Lansing High School team Saturday afternoon by a score of 2 to 1. The game was played at Piatt's dam, and was closely contested as indicated by the score.

M. A. C. showed useful lack of team play, although as a general rule their individual work was of a high order. The work of O'Gara at cover point and of "Sol" Hughes at right wing was brilliant.

O'Gara played a game such as is seldom witnessed outside of the professional teams of the International League. His posing, checking and shooting were excellent, he being credited with securing the only goal registered by M. A. C. For Lansing, Gardner and McKibbin played the best game, each being credited with one goal. Lansing played excellent team work. All three goals were made in the second half. M.

A. C. lined up as follows: Goal, R. Edwards; Point, Frazer; Cover Point, O'Gara; Center, C. Edwards; (Capt.) Rover, Boss; Right Wing, Hughes; Left Wing, Hopson; Referee, Benson; Timekeeper, Larabee; Goal Umpire, Freeair. 20 minute halves. The teams play again next Saturday at 2 o'clock.

ANN ARBOR 21—M. A. C. 20.

In one of the fiercest and most exciting games of basket ball ever played at M. A. C. the home team were defeated, last night for the first time this season, by one point. In holding, pushing, and carrying the ball, the visitors certainly excelled any other team ever at M. A. C. They were all eastern players, and played the game as it is taught there, but were a long way from rules as known in Michigan. M. A. C. was in play every moment, and on several occasions secured the ball when the Cox was dribbling with it. They were a much heavier team than our own, and their individual playing (and roughing) was strong, but in team work M. A. C. easily outclassed them. Following is the line-up and summary:

George White	F	Krehl
Patterson	C	Dixon
Uber	G	Vondette
Cox		Westerman
		Hanish
Baskets.—White 4, Vondette 4, Krehl, 2, Cox 3, George 1, Patterson 1, Westerman 1. Fouls.—George 3, Krehl 4. M. A. C. awarded 2 points on foul while throwing for basket.		

M. A. C. DEBATING CLUB.

The question discussed at the debating club Thursday evening was, "Resolved, That the present agitation against football is justifiable?" Mr. H. C. Bucknell upheld the affirmative and L. R. Dorland sustained the negative. Some very interesting facts were mentioned by both speakers. The arguments advanced for the affirmative in the rebuttal speeches more than counterbalanced those for the negative.

The basis of the affirmative arguments seemed to rest most heavily upon the character of the prevailing football spirit among the larger educational institutions of the country. The idea of scholarships is becoming obsolete. The mind is receiving a secondary consideration in collegiate training. The attainment of collegiate fame is becoming more and more dependent upon physical rather than mental acquirements. It would seem more logical to consider the mind in connection with the body. There must be an equilibrium established between the two in order to have the most perfect and the most desirable development of man.

The question for discussion next Thursday night is, "Resolved, That the Parliamentary System is Preferable to the Congressional System?" This promises to be a very interesting debate and every one is welcome to come.

Y. W. C. A.

The Thursday evening meeting was conducted by Miss Inez Court-rite. She chose as her scripture lesson the sixth chapter of Matthew. A short business meeting followed.

FARMERS' CLUB.

The meeting of the Farmers' Club last Thursday evening was opened by the reading of a paper on "Farm Dairying," by F. O. Foster. Mr. Foster handled his subject from the standpoint of the disposal of the cream from a dairy farm. He is of the opinion that there is more profit, to the farmer, to carry his milk to a creamery or even peddle it around town than to make butter of the cream. He quoted only the two classes where the conditions were such as to warrant the farmer in making butter. One was on the farm that was too far from market and the other where the farmer especially liked his work and would prepare for it by putting up a dairy building large enough to handle his milk. The paper was skillfully managed and an interesting discussion followed.

Y. M. C. A.

Hon. H. R. Pattengill was greeted by the largest audience that has attended a religious meeting at the college this year. The chapel was filled to the doors with those who listened eagerly for more than an hour to Mr. Pattengill's address on "Hearts of Health." The education of the heart as well as the brain was the aim of Mr. Pattengill's argument. It is a great benefit to the religious life of the college that Mr. Pattengill can be secured as speaker once every year.

Mr. W. K. Hough conducted the meeting Thursday, taking for his subject, "Head vs. Heart." He was assisted by Messrs. Parsons, Farley, and others. After these men had spoken the meeting was opened to all and several of the young men gave short talks on the subject.

Rev. T. J. Porter of Oxford, Ohio, preached on "The Publican and the Pharisee" in chapel Sunday morning.

The 34th annual state convention of the Y. M. C. A. will be held in Adrian, Feb. 16-18. M. A. C. will be represented by a delegation of young men.

'00.

In the *Prairie Farmer* of Feb. 1, appears an extended article on "Fruit Spraying for the Farmer and Spraying Mixtures," by C. H. Hilton, '00, of Benton Harbor. Mr. Hilton is another of our M. A. C. boys who writes from practical experience upon his own fruit farm in Berrien county. This is the second article of a series under "Horticulture" written for the *Farmer* and deals mainly with the various spraying mixtures, how they are applied and upon what plants and fruits they are used to best advantage.

ALUMNI.

'75.

Judge Carpenter and wife are spending the winter in Cuba and southern U. S.

'76.

"Enclosed find check for \$1 to pay for two years' subscription to the *RECORD*. 'Could not keep house without it. I look for it every week and read the *sporting news first*. Am very proud of our athletics. There are all right."

W. J. SLOSS, '76.

Mr. Sloss is an enterprising merchant of Big Rapids. His specialties are agricultural implements, coal and wood. His address, 322-324 Maple St.

'78.

W. K. Prudden, wife and daughters are visiting in the south.

With '81.

Mr. H. L. Chase writes from Duluth where he has been engaged as a land looker and explorer and connected with the lumber business for fifteen years. He inquires after many of his old College friends and states, "I would like to meet you all at the College in June as I expect to be in that country then." Mr. Chase has a daughter whom he desires to educate and inquires after the Women's Course.

'89.

Geo. J. Jenks and daughter, of Harbor Beach, are making a tour in the south and will visit Cuba before their return.

'95.

Dr. J. G. Veldhuis writes from Little Eagle, South Dakota, where he has been for some time. He states that his work in the Indian service has been both pleasant and profitable. His headquarters are at the Grand River Boarding School but his district includes the entire Grand River Valley of the Standing Rock Reservation. He says: "I often think of M. A. C., and of the many pleasant associations formed there, and wish you all the very best of success."

With '96.

Dr. Frank F. Stevenson, who is in charge of the chemical instruction of the Detroit Medical College, and practicing physician as well, is engaged in perfecting a storage battery to be used especially in automobile work.

'99.

S. L. Ingerson is now located at Ft. Worth, Texas, where he is in the employ of Swift & Co. as chemist in their fertilizer department.

'02.

The many College friends of Miss Clare Dean will be pained to learn of her death on February 3, of consumption, at her home in Mt. Pleasant. Miss Dean has been in poor health for some time and had expected to go west for the winter but was unable to do so.

THE M. A. C. RECORD.

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TUESDAY, FEB. 13, 1906.

AS HAS already been stated an attempt is to be made to secure the names and addresses of our alumni and former students, which will be arranged in a card index, and this information will also serve as material for the next alumni catalog, which is to be ready for distribution at the semi-centennial in 1907. In order to keep the fact of the semi-centennial and also the proposed memorial building before the minds of the former M. A. C. people, copies of the RECORD containing information concerning these subjects will from time to time be mailed to the addresses received. In securing these addresses, we need the co-operation of all, and shall publish each week a list of the names of those whose addresses we have been unable to secure. They will be arranged by classes and no doubt some member of each class who reads this issue of the RECORD will be able to aid us. Information concerning any will be gratefully received. This week we publish the list of names yet to be heard from in the classes from '61 to '75 inclusive.

'61.

Larned V. Beebe.

'64.

Lewis J. Gibson, Lewis Vanderbilt.

'66.

Charles Henry Watson.

'67.

Lezine A. Hulburt, Henry H. Jenison, A. Clifford Prutzman.

'68.

Dwight A. Harrison, William D. Place, Warren A. Wells.

'69.

Ernest H. Bradner, Guy Johnson.

'70.

Charles D. Sprague, Warren W. Reynolds, Charles Smith Williams.

'71.

Henry P. Halstead, Frank A. Sessions.

'72.

Matthew S. Lowder, Carroll E. Miller, Amos C. Williamson.

'73.

Chas. W. Ball, Charles S. Crandall, Israel H. Harris, Chas. W. Hume.

'74.

Wm. Cook, Jared W. Higbee, A. S. Hume, L. F. Ingersoll, Henry P.

Jenney, Arthur L. Lowell, Ransom McDowell, Martin T. Rainer, John E. Simonson.

'75.

Chas. Goodwin, Louis D. Niles, Charles H. Parker, Charles W. Sheldon, Wm. H. Smith, Chas. A. Sturgis.

The Round-up Institute to be held at the college next week promises to be a most interesting meeting. Space forbids the printing of the whole program, but many of our students as well as others to whom this issue will go will no doubt be glad to know something of what each day's sessions will be and we have endeavored to summarize the program to serve that purpose. An opportunity will no doubt be given students to attend such sessions as will be of interest to them. The first session will open Feb. 20, at 9:30 with Pres. Snyder as chairman, when the following subjects will be discussed: Bacteria as Friends and Foes, Dr. Marshall; Nitro-Culture, Prof. Smith; and Spraying for Insects and Diseases, Prof. Green of Ohio.

Tuesday afternoon at 11:30 Mr. Bassett, of Fennville, will act as chairman. Subjects: Making Money From Sugar Beets, Hon. A. B. Cook; The Orchard and Its Needs, Prof. Green; Points in Potato Culture, Mr. Waterbury; and Potato Blight and Its Treatment, Mr. McCue.

Tuesday evening Prof. W. H. French, chairman. Education For Farmers' Sons and Daughters, Prof. Holmes, Lansing; Improving Our Public Schools, Hon. P. H. Kelley; and Nature Study in the Schools, Prof. Fletcher.

Wednesday 9:30, Hon. C. J. Monroe, chairman. Forage Crops, Prof. Shaw, of Minnesota; Corn and its Improvement, Prof. Moore, Wisconsin; Dairy and Food Commission, C. C. Lillie.

Afternoon 1:30, Prof. Jeffery, chairman. President's Address, chairman; Corn and its Culture, Prof. Moore; Handling the Corn Crop With A Silo, Mr. Hull, of Dimondale; Without A Silo, W. A. Ellis, Marlette; Insect Enemies of the Corn Plant, Prof. Pettit.

7:00 p. m. Mr. Waterbury, Detroit, chairman. The Civic Improvement Idea as Adapted to Rural and Village Communities, Mrs. Crane, of Kalamazoo; Reading by Prof. King; Road Laws by Com. Earle; Improving Country Highways, Dept. Com. Rogers.

Feb. 22, 9:30. G. B. Horton, Fruit Ridge, chairman. The Forestry Problem for Southern Michigan, Prof. Bogue; for Northern Michigan, Prof. Roth, Ann Arbor; The Gospel of Forestry, Mr. Garfield; The Foot of the Horse in Health and Disease, Dr. Waterman.

Feb. 22, 1:30 p. m. Gov. Warner, chairman. Michigan as a Dairy State, Gov. Warner; Breeding and Selecting the Dairy Herd, Prof. Shaw, of Minnesota; Dairy Cows and Their Care, Mr. Cannon, Rochester; The Work of the Dairy Division, Prof. Lane, Washington, D. C.

7:00 p. m. Hon. R. D. Graham, chairman. Our Boys and Girls, N. P. Hull; Three Kinds of Men, Hon. H. S. Earle; Crops for the Dairy Farmer, Prof. Lane, of Washington, D. C.

Friday, 9:30. Hon. T. F. Marton, chairman. Live Stock Experimentation for the Farmer, Prof.

Shaw, College; Sheep as Mortgage Lifters, C. H. Alvord, Camden; Poultry for the Farmer, Mrs. Campbell, Ypsilanti.

1:30. Hon. L. W. Watkins, chairman. Profitable Pork Production, Prof. Shaw, Minn.; An Ounce of Prevention, Dr. Conkey, Grand Rapids; Farming in Northern Michigan, L. M. Geismar, Supt. Chatham, experiment station.

WOMEN'S CONGRESS.

Wednesday, 8:30 p. m. Lecture room, Women's Building, Miss Gilchrist, chairman. Music. Reading. Problems in Home Making, Mrs. Saunders, Rockford; music, pupils State School for Blind; The Care of Household Stores, Miss Bemis; Economics of the Kitchen, Miss Colwell.

Thursday, 1:30 p. m. Music; Reading; Duties and Mistakes of Mothers, Mrs. Partch, Armada; Music; Home Nursing, Mrs. Barber, Lansing; The Balanced Life, Miss Buell, Ann Arbor.

Subjects in both regular sessions and Women's Congress will be open for discussion. Interesting special sessions will be held in the following places: Electrical Engineering Lab. under Prof. Sawyer; Hort. Lab. Prof. Fletcher; Corn Improvement Association and Farm Machinery, Prof. Jeffery; Inspection and Description of Live Stock Experimental Work, Prof. Shaw. Many valuable prizes are offered by the Corn Imp. Asso. which holds its meeting during next week, for exhibits of corn.

The music for the week will be by the M. A. C. choir, band, mandolin club, Industrial School, Blind School, Prof. Patten, Mr. Halleck and Mr. Perry.

CIVIL ENGINEERING THESES SELECTED BY MEMBERS OF THE SENIOR CLASS.

Armstrong and Kingscott,—Deduction of Formulas for Concrete Work, Reinforced and Plain.

Boomsliker and Liverance,—Analysis of Highway Bridges in the City of Lansing.

Boughton and Kramer,—Location of an Electric Railway from M. A. C. to Williamston.

Cameron and Taylor,—Heating, Ventilation and Plumbing of a Tenement House.

Cavanagh and Grover,—Investigation of the Overhead Crossing near Waverly Park.

Falconer and Graham,—Analysis of the Overhead Crossing at North Lansing.

Francis and Smith,—design of water works system for the district about M. A. C.

Lambert and Spencer,—Investigation of the Michigan Ave. Steel Arch.

Markham and Salisbury,—The Weinman Creek Valley Sewer.

Neilson and Sanborn,—Topographical Map of M. A. C. Campus.

Phippeny and Rasemussen,—Macadam Road from Lansing to M. A. C.

Miss Alexander is entertaining her mother, Mrs. F. D. Alexander, of Manitou Beach.

Mrs. Lyman who has been very ill at her home in the city with gastritis is much improved.

HORT. CLUB.

Dr. Marshall read a most interesting paper to the Horticultural Club on Wednesday evening last. The subject was "Science in Relation to Agriculture." This paper brought out many things in connection with scientific research, and in such a manner that the hearers went away placing a higher value upon the work of scientific men in agriculture as well as in other professions. The doctor also made a very flattering comparison between agriculture and the commonly considered higher professions, showing that it was the fundamental one and that upon it was based the life of the world. He ended by stating that the day of the general farmer was passed and that the specialist was the man of the present and future.

Next Wednesday, the 14th, Professor Dandeno will speak upon "Heredity and Mutation in Plants."

RESOLUTIONS FROM THE THEMIAN SOCIETY.

Whereas, God in His infinite wisdom has removed from our midst our sister, Clare Dean, and

Whereas, the deceased was an alumnus of the College and an honorary member of the Themian society, be it

Resolved, That the society extend to her family its heartfelt sympathy, and that a copy of these resolutions be included in the society records.

GRACE TAFT

DORA SKEELS

LILLIAN TAFT

Committee.

The freshmen won the interclass championship in basketball last night by defeating the sub-freshmen 13 to 6.

The basketball team goes to Mt. Pleasant for a game Friday evening, and to Adrian for one on Saturday afternoon.

A fine display of cinerarias and primroses are now to be seen in the green house. They are just now at their best.

The M. A. C. chorus will repeat the Folk Song concert at the First Presbyterian church, Lansing, next Saturday evening.

The State Veterinary Association which met in Lansing the past week held their sessions in the college chapel Wednesday.

About twenty-five members of the Supervisors' Association, meeting in Lansing last week, visited the college in a body Thursday.

W. S. Towner, '07, who has been at Purdue during the fall term, visited college friends over Sunday. He is at his home in Byron Center for the present.

Resolved, That old maids are detrimental to the clover crop.

Dr. B.

Argument for the affirmative. Old maids encourage the growth and keep a large number of cats. These cats eat the meadow mice, so the meadow mice build no nests. Without these nests the bumble bees cannot thrive; without bumble bees the red plumed commander-in-chief of the manorial forces, commonly called clover, will not produce seeds, without seed no crop can be grown, hence old maids are a source of detriment to red clover.

A.

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ABOUT THE CAMPUS.

Now you can breathe easy—examinations are over.

Several college people attended the lecture by W. N. Ferris Wednesday evening at the L. B. U. on the subject, "The Making of a Man."

An Alpha Zeta (A. Z.) Pin was lost between Abbot hall and the post office. The finder of same will be rewarded if returned to Roy C. Potts.

The Hort. department is cutting their supply of ice from the pond. Some very good ice is being secured, six inches thick, and placed in the cold storage building.

Miss Addibelle Bentley, stenographer in the president's office during the fall term, has accepted a position with the Reo Co., in Lansing and began her duties on Feb. 8.

Wanted—Rooms for visitors during Round Up Institute Feb. 20—23. Please notify Prof. Taft as to the number you can accommodate, and prices for either one or two occupants to the room

Jay Hanselman, who has been with a sugar company at Wallaceburg, Ont., has closed his work at that place and engaged with the Porto Rican Sugar Co., whose campaign has just begun.

A party was given Wednesday afternoon by Irene and Chester Kenney in honor of little Katharine Hedrick who accompanied her father, Prof. U. P. Hedrick, of Ithaca, N. Y., as far as the College on his way to Madison.

In the absence of gas, to keep paraffine at an even temperature for mounting specimens, the botanical department has purchased an incubator through the use of which they have succeeded in securing the desired temperature for the above work. The sophomores (agr.) are each mounting a few specimens of plants.

Mr. Madison Cooper who installed the cold storage visited the Hort. Dept. Wednesday and inspected the plant. It has given entire satisfaction from the beginning. It is possible to run the temperature down to nine degrees above zero if such is desired, even in the middle of the summer. It is very easy to secure a temperature of 32 in summer.

Miss Kate Butterfield '02, of 146 Larch street, North, Lansing, announces that she is prepared to come to the College faculty homes to do sewing. Miss Butterfield has spent much of the time since leaving College doing various kinds of the work and her experience enables her to give satisfaction. A postal card dropped to her address will notify her.

The Hort. department plans to use one-half acre of land east of the laboratory for a farmer's kitchen garden. This garden will be designed to supply a family of six with all the fruits and vegetables needed. It is to be enclosed in an arbor vitae hedge and will be so labeled that visitors can make the best use of it. The aim will be to illustrate the best method and to plant the varieties

most generally successful in a kitchen garden for this locality. The garden will be made a permanent experiment.

The Student Recital given at the Women's Building on Saturday evening was a decided success. Over two hundred College people were present to enjoy the program, each number of which was played from memory. The selections by Miss Northrop and Mr. Perry were especially well rendered. The program, as published last week, was carried out and reflects great credit on both students and instructors.

The Tau Beta Pi fraternity gave its annual open meeting Thursday, Feb. 8. Prof. Weil spoke on the history and objects of the association, after which the following papers were read and discussed.

"The Methods of Construction of Earth Work and Masonry Dams," L. M. Spencer.

"Reinforced Concrete," G. P. Boomsliet.

"The Application of Electricity for Driving Machine Tools," W. E. Wilson.

The work of removing the old apple orchard is now completed, only about an acre of spies being reserved. This orchard has never been a credit to the College and has been criticized to some extent by people around the state. The soil is not very well adapted to apples. No new fruit will be planted until an uphill site is secured or at least one as good as a commercial fruit grower would select for his orchard. The most of the land will be used

for the plant breeding work with potatoes and strawberries.

What might have proven a costly fire was prevented by two students at the home of Mr. Cornell, on Thursday morning. A fire had been burning in the grate the evening before and in some way worked into the joists, probably on account of over-heated tiling. At two o'clock Messrs. White and Warden were awakened by the smell of smoke which had penetrated their room, and upon going to the basement found that the fire had worked along nearly to a partition. It was extinguished in time to prevent serious damage.

A reception was given at the home of Prof. Smith on Thursday evening for the short course students in creamery management and the second year agricultural students. One for those in fruit culture and first year men in general agriculture was given Friday evening. With Prof. Smith as host the boys are always assured a good time, and these occasions were certainly no exceptions as the two evenings were most pleasantly spent and will be long remembered by those present.

On Thursday evening there were 82 present and on Friday 93. Those who aided in receiving were: Pres. and Mrs. Snyder, Sec. and Mrs. Brown, Prof. and Mrs. Taft, Dean Gilchrist and mother and Instructors Rabild, Foster, Norton, McWethy, Miss Colwell, Miss Avery, Mr. Potts, Mr. Fisk, Mr. Spreiter, Mr. Hurst, Miss Lillian Taft and Miss Bennett.

'70.

The *Michigan Tradesman* of Jan. 31 presents an article headed, "Citizen Garfield—His Splendid Gift to the City He Loves." In this mention is made of his early home, of his school days in the "Union school building on the hill," of his six mile walk to attend this school and of the manner in which his eyes were always open to see the interesting things of life and eagerness to explain these things. It then touches upon his career as a man, of his helpfulness in many ways to state as well as city, and states the following concerning his recent gift to the city of Grand Rapids:

"Mr. Garfield, not content with bestowing general benefits, is now in the forefront with a specific gift to our city, in the conferring of which he is supported by his venerable mother, Harriet E. Garfield; his wife, Jessie Smith Garfield; Mrs. N. A. Fletcher and O. C. Simonds. This gift consists of twenty-five acres of land at the corner of Burton and Madison avenues for public park purposes, donated by Mr. and Mrs. Garfield and Mrs. N. A. Fletcher, and valued at \$30,000; a cash donation of \$6,000 to cover the cost of an adequate park pavilion from Mrs. Harriet E. Garfield, and the plans for beautifying the grounds and the personal services during the development of the plans by Mr. Simonds, who stands high as a landscape architect.

The first and best lesson taught by this action on the part of Mr. Garfield and his associates is one of civic loyalty and pride and of actual practical appreciation of the pleasure of doing something direct, tangible and permanent for the public good."

Accompanying the article is a fine picture of Mr. Garfield.

With '90.

Mr. E. J. Frost, with the class of '90 at M. A. C., who is at present superintendent at the shops of the Geo. D. Wolcott & Son Machine Tool Co., of Jackson, is the author of a book which is attracting attention among draughtsmen and shop men who have to do with examples in bevel gearing. The book is entitled "The Essential Data of Bevel Gearing," and contains besides miscellaneous information, a complete set of tables of all the dimensions of the teeth of any pair of bevel gears between 9 and 132 teeth, for any pitch. To the novice in gearing problems this book is a Godsend, and, by using it even the experienced designer can do away with many hours of mathematical drudgery. Mr. Frost is a loyal M. A. C. man, and his alma mater is glad to point him out as one of her sons who has been "heard from" in a professional way.

'93.

The following are extracts from a letter written by W. F. Hopkins of the above class: "I am in receipt of your letter enclosing postal card for reply. I have filled out the card and mailed same. I thoroughly enjoyed reading over the little schedule of Permanent Improvements since 1900. It has been some eight or nine years since I have been at the College and I realize that I would hardly recognize the place. I hope to be in Lansing sometime between now and spring, and shall certainly take the opportunity to call upon you (Pres. Snyder). * * * I have never lost

interest in M. A. C. * * * I frequently run across the old boys in my travels about the country, and always spend a pleasant hour talking over old times."

'02.

O. H. Skinner who has been at Wallaceburg, Ont., during the past sugar campaign is now engaged with Park, Davis & Co., Detroit.

'04.

Henry N. Geller has finished his work at Champaign and is now engaged in fertilizer analysis with the Nelson Morris Packing Co. of Chicago.

'04.

The following is from C. M. Annis, Leslie, with '04: "The number of our R. F. D. has been changed to No. 1. I received one of the 1906 calendars and many thanks for it. The M. A. C. RECORD seems like a local newspaper to me more than ever, the longer I am out of college."

'05.

We are indebted to Bruce McAlpine, of Jackson, for alumni news this week. Mr. McAlpine states that THE RECORD is now to him a weekly message from old friends and associates, and is always heartily welcomed, and sends good wishes for its prosperity and to his alma mater.

With '06.

G. T. Pike with above class and Miss Edna Randall, a Clinton Co. teacher, were married December 11, '05. While this is a little belated it will no doubt be news to many of Mr. Pike's friends. The Clinton Republican says: "Mr. and Mrs. Pike are highly esteemed by all who know them, and all their friends unite in wishing them a long and prosperous life."

A letter from Homer Yutzey states that he is now at the University. He says: "I have just entered the engineering department. The last two days I have been chasing around for advanced credits and although I have not seen all professors, I think I shall get plenty of credit for my work at M. A. C." His address is 624 S. Ingalls St., Ann Arbor.

Dr. Beal tells the following: "Ray Stannard Baker is absent from M. A. C. about half the time and I have taken pride in erasing a portion of the address and inserting 4th Ave. and 23rd St. (McClure's) N. Y. City. Recently one of these letters reached Elmira, N. Y., from which the post master returned the letter with this slip attached "Respectfully, P. M., Lansing, Mich. Can you not furnish a better address for the attached letter as we are unable to decipher the present one." Seriously I can see nothing on the letter which resembles the name Elmira. Of course I could not expect Mr. Collingwood to keep this incident quiet.

A word of kindness now is better than a floral emblem afterwards.

Well, it is better to wear than to rust but it is unwise to do either.

If you stub your toe twice on the same nail do not blame the nail.

There's gold enough in the land to make all the world rich, but too many are waiting for the other fellow to dig it.

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