

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 16.

EAST LANSING, MICHIGAN, TUESDAY, APRIL 25, 1911.

No. 31

## SUMMER COURSE IN PRACTICAL AGRICULTURE.

During the coming summer, a course in practical agriculture is to be offered to afford an opportunity for training in the common farm practices, and is available to all students of the agricultural, horticultural, and forestry courses. In reality, this work is required for graduation for those who have not gained the necessary experience on well conducted farms. Quite a large percentage of students who enroll for the courses mentioned have been reared in cities, towns or villages, and have not had an opportunity to procure the desired training in farm practice.

The course will be four weeks in length, beginning Monday, June 19. Credit will not be given for the work, as it is a prerequisite to the regular courses.

The tentative program as submitted includes the following: Tools and implements, their construction, use and care; fence building and repair; drainage; horses and their uses, under which head instruction will be given in the fitting of harness, adjustment of draft, and the application of horse power to the ordinary farm operations; live stock; tillage methods. Students will be permitted to take part in the operations involved in connection with the various cultivated crops; weed eradication and control; horticulture, which at this season of the year must always receive much attention, will afford abundant opportunity for practical work.

It will not be the intention to keep the student at one line of work longer than is necessary to learn to do the same properly. An endeavor will be made to enable each student to come in contact with as great a diversity of farm operations as possible. All work will be performed under the supervision of a competent instructor.

Application must be made at the office of the Dean of Agriculture by June 1, 1911, and will be filed in order. The enrollment for the coming season will be limited to 30. This work will not be required of present seniors.

## FORESTRY CLUB.

Prof. Shaw addressed the Forestry Club on the 18th, on "Destruction and Construction," as related to care of shade trees, etc. He brought out the attitude of the early pioneers and the vandalism of the tenant farmer. A large number were present to hear and appreciate the talk. Prof. Shaw was scheduled to speak on the 11th, but was unable to meet the appointment on account of illness.

At the close of the meeting tropical fruit was served.

'08.

Harold Sherman is instrument man for the Michigan Central Ry., Detroit. His residence address is 557 Third ave.

## THE DEBATES.

On next Friday night, in the armory, occurs the first debate with Alma college. This is the opening of new relations with our sister college, and it is hoped that this contest may become an annual affair.

The subject for debate is, "Resolved, That the United States shall retain ownership of all coal lands now owned or hereafter acquired." M. A. C.'s team consisting of Messrs. G. H. Collingwood, J. D. Fletcher and J. B. Myers, will debate the negative side of the question.

The following week will occur, at Ypsilanti, the annual debate with the Normal team. Messrs. Wilcox, Powell and Margolis will represent M. A. C., and will uphold the affirmative of the same question as will be debated Friday with Alma.

This has been a particularly hard question upon which to secure data, and much time and labor has been spent by every contestant in getting the subject in the best possible shape. Every man on the two teams is in good shape for the contest, and we believe M. A. C. has the strongest bunch of debaters ever representing the institution.

In the Alma debate, only one rebuttal will be allowed. Much interest is being taken in this contest and it is hoped a large number will turn out and furnish lots of enthusiasm. A big mass meeting is planned for Thursday evening, at which time plans will be completed for the evening's program.

Plan to attend the Alma-M. A. C. debate, Friday, 7:30 p. m. It will be a good one.

## M. A. C.—DE PAUW.

The home team showed a marked improvement in form on Tuesday of last week, when De Pauw, of Green Castle, Ind., was taken into camp 14 to 1. The nervousness had practically disappeared, and every man was able to settle down to good work.

"Freddie" Busch pitched the entire game, and was at his best. The scratch hits made by the visitors were scattered, and only once, that in the fourth, were they allowed to send a man across the plate.

On the other hand M. A. C. hit consistently and safely, registering a total of 20 during the game. This, too, in the face of the fact that they were facing one of the visitor's best pitchers. The fielding was excellent, only one error was registered against the home boys, and altogether things look good for the baseball season of 1911.

'02.

A. W. Case is now assistant manager of the Tennessee Copper Co. of Copperhill, Polk county, Tenn., which place will be his future home. He still retains the management of the work in New Mexico.

## BACTERIOLOGICAL EXHIBIT.

The Demonstration in Bacteriology, on Friday and Saturday of last week, was visited by a large number of college and Lansing people, and was thoroughly enjoyed by all. The splendid arrangement, and the number of details worked out under each division go to show that much time was spent in the preparation of the exhibit. Of all the sciences, bacteriology is perhaps the least understood, and this demonstration afforded an excellent opportunity to learn more of the work undertaken by our department. The exhibits were especially enjoyed by the pupils of both our own and Lansing's public schools.

Under the head of "Preservation and Deterioration of Foods" were shown a large number of foods, such as meats, fruits, jellies, milk, pickles, fish, spices, cheese, etc., together with common methods of preservation, and also causes of deterioration. Both salt rising and yeast breads were exhibited, and methods of starting nicely explained. Vinegars and their uses were also shown in this connection.

Under Dairy Bacteriology was explained many interesting points—bacteria in milk contamination, constituents of milk, butter and cheese, fermentation, molds, starters, and preserved milk. Butter and cheese were also given attention, and samples of various kinds were shown in connection with the exhibit.

Under the head of Sanitation, the program was carried out as planned, as well as in that of soils, and animal pathologic bacteriology. The agencies for combating diseases were of great interest, and the exhibits, as a whole, were both interesting and instructive.

## BAND DANCE.

The annual band dance will be given at the Armory Friday evening, May 5th. Arrangements are being made to make this the most enjoyable party ever given by the band, several feature dances being on the program.

Only a limited number of tickets will be sold, so get your tickets of the band boys immediately.

## STUDENTS' RECITAL.

On Friday evening, April 22, occurred the last recital to be given this year by the music students.

A most appreciative audience gathered in the parlors of the women's building to listen to an interesting and delightful program. It was a long program, but exceedingly well balanced and well rendered. Miss Freyhofer and Miss Scott are to be congratulated on the efficient work of their pupils. The program as published last week was carried out.

A tennis tournament is planned with Olivet on Saturday next.

## ALUMNI

'72.

M. S. Lowder sends in a word of appreciation for the RECORD from Dakota City, Iowa. Mr. Lowder has been connected with the firm of J. C. Huey, dealer in grain, coal and live stock, at above place, for more than ten years.

'90.

J. R. McColl, of Detroit, has just been chosen dean of the new engineering department of the University of Detroit. The firm of which Mr. McColl is a member are the official engineers for the Detroit board of education, and have charge of the various public institutions in the city. The course will open this fall, and Mr. McColl is already casting about for teachers. It is planned to have a complete course in engineering. A fine large building on Jefferson Ave. has been purchased by the university, which will probably furnish quarters for the new course in engineering. Mr. McColl is well fitted for his new position, having been engaged in educational work in Tennessee, Cornell and Purdue Universities. He has also had a large amount of practical work, having been for five years connected with the American Blower Co., of Detroit. Prof. McColl is a member of the American Society of Mechanical Engineers, and also of the Detroit Engineering Society.

'92.

Mrs. Mabel Linkletter Robinson, who lost her husband (Chas. Robinson) in the west some years ago, was recently married to Mr. F. E. Cooper, of Holt, Cal. Mr. Cooper is a carpenter, but is also interested in gardening.

'96.

Wahey Matsura is professor of mechanical engineering in the Tokyo College of Technology, Japan. Mr. Matsura's address is 205 Yoyagi, Shinjuku, Tokyo.

'99.

Charles E. Calkins, formerly a teacher, is now farming at Swartz Creek, R. F. D. 2.

'01.

An interesting magazine, published by the Chamber of Commerce, Birmingham, Ala., has just been received. The magazine sets forth in an interesting manner the many advantages of Birmingham District. Among the articles is one by O. L. Ayers of the above class, on "Agricultural Conditions and Possibilities in the Birmingham District." The article deals with the topography of the district, kinds and characteristics of soils, the large variety of crops which can be grown, and the almost ideal market for all kinds of farm produce.

'02.

Floyd W. Owen is at present in Detroit, with address as box 150. Mr. Owen has just completed a two year trip through Europe and Asia.



# The M. A. C. RECORD

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B. A. FAUNCE, MANAGING EDITOR

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TUESDAY, APRIL 25, 1911.

IT seems necessary to again call attention to the fact that all material submitted to any paper for publication must be signed by the author.

This law is perhaps as old as newspaperdom, and so far as the RECORD is concerned, will be adhered to. Especially is this true of matter coming through the mail, or that placed in one of our RECORD boxes.

The RECORD solicits matter from students, and is therefore always glad to receive same. We must insist, however, that all such matter be signed. We are sure that all fair minded students will see the justice of this request. Some one must be held responsible for the publication of each article which appears, and it is but fair that the author be that "one."

## THESIS.

By E. E. Elliott, Professor of Agricultural Education, University of Idaho.

Prof. E. E. Elliott, of the University of Idaho, has presented his thesis to the chairman of the board on advanced degrees at M. A. C., and the same has been accepted. Prof. Elliott was a student at M. A. C. in 1897-8, and a graduate of Monmouth in '81 with the degree of A. B., and received the degree of A. M. in '84 from the same institution. He is now a candidate for the degree of M. S., and there are so many interesting things in his thesis that we take the liberty to publish extracts from same. The subject of the work is "The Farmer's Mind," and the following are the three final subjects treated.

IS THE WORLD GROWING BETTER?

"The vast majority of farmers are optimists. Ready to cry out at injustice and oppression, quick to recognize evil and strike at it, there is always an abiding faith that good will triumph—is constantly triumphing, over all that would oppose it. Seventy-five per cent. of the farmers who were asked the above question answered without hesitation that they believed in the progress of the good and true. Almost without exception these men gave the foundation for their faith. An analysis of these answers reveals an astonishing number of reasons, and show how broadly the situation has been surveyed. Just to illustrate this, the following long list of evidence of the world's betterment is given: The growth of arbitration; growing liberality of capital; suppression of the saloon; keener sense of civic duty; education in science; increase

(Continued on page 4.)



A GROUP OF PERSONS WHO ATTENDED THE CONFERENCE FOR MINISTERS IN JULY 1910

## MINISTERS' CONFERENCE.

The committee, having in charge the arrangement of the summer conference for ministers, was called together Thursday afternoon, April 13th. With President Snyder, the committee numbers seven. Those present at this meeting were Drs. Howell and Sutherland, of Lansing, Prof. French and Pres. Snyder. Rev. E. A. Armstrong, of Albion; Rev. R. E. Conley, of Detroit, and Mr. J. W. Hutchins, of Hanover, were not present.

After discussion of plans it was decided to carry on the work the coming summer somewhat after the plan of last year. Practical instruction in agriculture by our professors will be given, and a special session for women will be held. Mr. Bemis will again be on hand and continue his talks along the line of work in which he is engaged. There will perhaps be two or three other speakers also. The conference will probably be held this year during the week of July 10.

## HORT. CLUB.

At the weekly meeting of the Hort. Club last Wednesday evening, Prof. Coons, of the botanical dept. spoke on apple cankers. He took up the subject from the historical, rather than the botanical or practical standpoint. The definition of a canker is, "any rough place on the surface of a limb." These are usually caused by a physical agent, such as frost or hail, and are the sources of infection for many well-known plant diseases. Bacteria, fungi, and insects use these cankers as nesting places.

Blight was the first plant disease discovered which was caused by bacteria. Dr. T. J. Burrill, of the Illinois Experiment Station, found spores in the cambium of diseased trees which he compared with some he had found in animal diseases, so he concluded that the blight was caused by bacteria. Several years later he inoculated other trees from the diseased spots and found that 68 per cent. took the disease. People would not yet believe this as the source. In 1885, Arthur, of the Geneva Station, next took up the work, and proved beyond a doubt that it was bacteria that produced this disease.

European Apple Canker, or the true canker, is uncommon in this country. The fungi attacks some ruptured place in the bark; the tree

grows slightly over, causing the canker to grow back under the bark. There is a canker in this country caused by a clover mite which much resembles this "true canker."

Bitter Rot is difficult to find, and produces much damage. It was discovered in 1892 by Capt. R. A. Simpson. He was employed by the government to watch his orchard for this rot. He discovered certain cankers on the trees to be the source of infection. This fact was disclosed to Professors Burrill and Blair, who collected specimens and immediately began to work on it. Capt. Simpson told them on the 11th of July, and their bulletin was ready on the 14th of the same month.

Bitter Rot produces a sunken blackish spot, where a number of checks appear on the bark. The spore-bearing pustules break through between these checks. The spores are a pink or yellow color.

Black Rot, the most common rot in Michigan, appears in the ripe apples and on the branches. The canker sometimes girdles the tree and kills it. The mummy of this rot is soft, that of the bitter rot is hard.

Dr. Coons spoke of a disease that the experiment station is now working on. This is also a canker, but as yet nothing definite about it has been determined.

## U OF M. VS. M. A. C.

Timely hits in the first inning put Michigan in the lead Saturday, and enabled her to nose out a 3 to 1 victory over M. A. C., securing two in the first and one in the fourth also.

Pattison pitched his first varsity game of the year, and did exceptionally good work. Busch played a good game at short, and Rogge was strong at third. In fact the team as a whole showed great improvement, and gives promise of becoming one of the strongest ever representing M. A. C. The honors were pretty well divided, and it was really anybody's game until the ninth. Michigan secured seven hits and M. A. C. registered six, while Michigan made five errors to M. A. C. one.

M. A. C. was represented on the team as follows: Harvey, m.; McCarthy, c.; Cortright, 2; Dawson, 1; Griggs, 1; Rogge, 3; Gorenflo, r; Busch, s; Pattison, p.

May Festival, Friday, May 19.

## Y. W. AND Y. M. C. A. TEN O'CLOCK.

Arrangements are being made by the Y. W. and Y. M. C. A. for a costume social, to be held in the Armory, May 12th. Some odd features are to be presented that customarily do not go with a college course. The joint social committee will uncork the oddities at a later time.

The sophomores gave a delightful party in the armory Saturday evening of last week.

Prof. Halligan was in Vassar Saturday, where he spoke before the Civic Improvement Association on the care of cemeteries.

Students should get their tickets early in order to be sure of reserved seats at the May Festival. See Lindemann, at 6 D Wells.

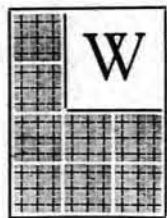
Dr. Jas. K. Patterson, president emeritus of Kentucky State University, will deliver the commencement address at M. A. C. on June 20th.

The first spray of lime-sulphur for scale insects has been completed. The ornamental shrubs, as well as the fruits having been given a thorough wash.

Robert Maltby, '04, in charge of the animal husbandry department at Gainesville, Fla., sent several beautiful specimens of magnolia blossoms to Mrs. Landon, last week. The specimens were packed in the celebrated southern moss.

The King's Daughters will hold their annual sale of baked goods and fancy articles at the home of Mrs. Snyder, Thursday, April 27, at 3:00 p. m. Several readings will be given and tea served. All the ladies in the community are cordially invited to be present.

The Hort. department has the scheme in mind of starting a horticultural arboretum on the plat of ground just east of the laboratory. Scions of a number of rare species of interest to all horticulturists were secured from the arboretum of Boston by Prof. Eustace when he was there in September, and specimens have been secured from other nurserymen as far as possible. It is hoped and expected that this will be a very important adjunct to class instruction, and this is the reason for placing it so near the building, as future classes along this line of work will be held there.



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## ABOUT THE CAMPUS

Dean Bissell attended a meeting and banquet of the Michigan Engineering Society, held in Detroit last week.

Supt. Brice, of Wakefield, and two members of the school board were at M. A. C. last week in search of a teacher of domestic science for the coming year.

C. H. McLean, a teacher in the Lansing public schools during the past three years, has been engaged as teacher of economics for the spring term. Mr. McLean has a law office in the city.

Ray Turner sends in his renewal to the RECORD. Mr. Turner finds agricultural work in Hillsdale very pleasant, and has decided to stay with the work another year. His address is 8 West St.

The program given recently by the U. and I. Club was again presented in the women's building last evening. Mr. Patten was not present, his place on the program being taken by Prof. Killeen and Mr. Morse. Miss Freyhofer assisted Mrs. Marshall.

In the cross country try out Saturday the runners finished as follows: Geib, in 16:02; Chamberlain, 16:30; R. A. Warner, Mooney, A. E. Warner, Davis, Hunn and Ewing. The first four mentioned, together with Tillotson and Rosen, will represent M. A. C. at Hope next Saturday. Rosen was out of condition Saturday, and "Tillie" was in charge of the bunch, so did not run.

H. B. Wales, who was obliged to drop out on account of illness a short time ago, is again in school.

E. P. Clark, '83, a prominent school man in the southern part of the state, was a college visitor last week.

Verne Connor, a freshman ag., has been obliged to leave college for the spring term on account of an attack of inflammatory rheumatism.

Miss Florence Whitbeck, an M. A. C. student last year, and now of Ypsilanti, was one of the many guests at the Aurorian party held in the agricultural building.

The Forestry Department is shipping large quantities of seedlings to those interested in reforestation. More orders for these seedlings have been received than ever before.

Instructor F. M. Pyke and Mr. Dorgan took a delightful canoe trip last week down the Grand River to Ionia, stopping on Saturday night with Mr. Dorgan's parents at Lyons, and returning from Ionia on the train Sunday night. The young men plan a more extended trip in the near future.

Announcement is made of the marriage, on April 16th, of Mr. Hector Macpherson and Miss Margaret Dupee, at the latter's home in Chicago. Both young people were members of our teaching force last year. Mr. Macpherson is now instructor in economics in the University of Illinois, and the young people will reside in Urbana.

Prof. Jeffery spent Friday of last week in Antrim county, where he addressed a meeting of Grangers.

Prof. A. C. Anderson was on the sick list a day or two the past week. Neuralgia was the tormentor.

Mr. E. P. Kinney plans to build a number of houses on his property in the eastern part of the city during the summer.

The farm department was kept busy the past week drilling oats and with the regular farm operations, which are now rushing.

Candidates for tennis teams should see Capt. Itano at once, and arrange to play off their matches, in order to get down to the desired number for finals.

C. J. Phillips, a former M. A. C. man, is now practicing osteopathy in Hillsdale, Mich. Prof. Shoosmith had a short visit with him recently, while in the southern part of the state.

The Highland Club have issued invitations for a party to be given in the assembly room of the agricultural building on Friday evening, April 28. Reception 8 to 9 and dancing 9 to 11.

J. E. Webber, of Chicago, will have charge of the chapel service on Sunday, April 30, and will also address the union meeting of the Y. M. and Y. W. C. A. Sunday evening. Mr. Webber was a former Y. M. C. A. secretary at M. A. C., and will have a message for all college students.

A five-pound box of chocolates is offered to the young lady selling the greatest number of baseball season tickets before May 1.

B. A. Peet, '94, professor of chemistry at the State Normal stopped at the college between trains on Friday of last week.

Prof. and Mrs. Taft announce the engagement of their daughter, Miss Lillian, to Prof. E. J. Kunze, of our engineering department.

A training table for baseball men has been established at Club B. This enables the men to bunch together, and will be of advantage in many ways.

The Eclectic Society will hold their spring term party May 6. A six o'clock dinner will be served at the Tic House, after which dancing will be enjoyed for the evening.

The judges for the Alma debate will be Hon. Lawton T. Hemans, of Mason, Supt. W. G. Coburn, of Battle Creek, and Attorney E. C. Shields, of Howell.

The baseball game with Western Reserve will be called promptly at 4:00 p. m. on Friday, April 28. Our team will then be in good condition, and every fan is expected to be on hand to give his support.

The Aureoreans gave a spring term party in the assembly room of the agricultural building last Friday evening. Prof. and Mrs. Baker and Prof. and Mrs. King were patrons. The college orchestra of six pieces furnished the music.



## THESIS.

(Continued from page 2.)

in humanity; decrease of sectarian bitterness; more liberal religious sentiment; quickened public conscience; better standards of living; improvement in the courts; the spread of general education; the diffusion of knowledge and information relating to life; the conflict with graft; the sentiment for a return to the simple life; philanthropy and its broad application; the growing recognition of a certain obligation on the part of great wealth as to its use for the public good; political and religious toleration; better legislation for the people. Additional evidences: The service of inventive genius to improve conditions of living; the spread of fraternalism; the growth of the Roosevelt idea of a 'square deal,' all these and many others.

"It would appear further, from the language used, that these opinions were largely the result of independent thinking, and not merely echoes of stump speeches or muck-raking magazine articles. Here are some illustrations: 'Better, a thousand times better. I can cite my own feelings, which are those of love and sympathy for the remotest nations of the earth, and I believe that is the modern heart of man. Ancient history shows no such feeling among the nations. Every day life is devoid of ancient cruelty and its dreads and fears.' 'I think the world is growing better because the people are becoming broader minded. While there is much crime in the land, I believe that this is due in a way, to the fact that we are growing so humane, in view of our own weakness, that we are slow to punish.' 'The world is growing better just in the proportion that the people are becoming educated and truly civilized. It would be hard to find a man or woman who would say that they had no confidence in their fellows. All over the world there is a general movement for better conditions morally, socially and politically.' 'Better, much better. The flash of electricity around the world reveals the bad, and formerly we knew only of the evil in our own communities, and believed others were better. We are so much more highly civilized and refined that the same crimes that were common then, now shock us more and more.' 'Better. More education, less ignorance, less hatred for those who differ in religious views, as well as politics. A growing desire for true men instead of creeds and parties. More respect and charity; less controversy and more peace and harmony. We have better schools, better newspapers, better and cheaper magazines, better transportation facilities, better mail service from year to year. Better laws and, greatest of all, a better public conscience.' 'I think the world is growing better because people are becoming more intelligent, and more practical methods mark the efforts of those who labor for the uplift of the human family. Our education is becoming more helpful.' 'Better. Wife says we can tell by the kindness of heart shown by our neighbors. Public opinion is more ready to approve honesty and discountenance any form of evil doing than at any other period of the world's history.' 'Growing better. The churches are coming closer together; the

temperance sentiment is growing; we have a better and more systematic way of caring for the unfortunate, and the people are reading and thinking more for themselves.' 'Better, by all means. My children do not see one-tenth of the drunkenness and evil that I did when a child.' 'Better. The awakening in China and Japan; at home, the Y. M. C. A. and men's laymen movement; the attitude of the courts toward trusts; the sentiments and policies advocated by Roosevelt, and their popular approval all over the country.' The world is growing better. Most of us think it is a better place to live in than it ever was.

(Concluded in next week's issue.)

## ARBOR AND BIRD DAY.

### A PROCLAMATION BY THE GOVERNOR.

By legislative enactment, the Governor is authorized to set apart one day in the year to be known as Arbor and Bird Day.

The importance of the proper observance of an Arbor Day is becoming more apparent every year. The problem of conservation of our natural resources is one of national proportions, and faithful remembrance of the day is furnishing the people of our commonwealth with a clearer understanding of the economic value of forest and bird preservation.

While the purpose of the day is to stimulate the pride and interest of the people, the State should also be concerned in the adoption of a far-sighted policy of conservation and reforestation, thereby creating value, as well as adding comfort and beauty for the benefit of present and future generations.

For the first time in the history of Michigan, the Governor is requested by senate resolution (No. 55, introduced by Senator L. Whitney Watkins) to call attention to the importance of protecting and encouraging song and insectivorous birds, not only for their economic, but for their aesthetic, value. This is a commendable action. It is desirable to teach an intelligent appreciation of the pleasures and benefits to be derived from birds. Almost all birds do more good than harm. The balance of value is clearly in favor of even all the hawks, except two. It is much better to let a harmful bird escape than to run the risk of killing a bird of value. Great care should be exercised that birds are not killed or molested in their nesting places. A person who will put up bird boxes and otherwise take an interest in our feathered friends will be well repaid. Every farmer should be a bird guardian. To be interested in and kind to birds is a sign of gentleness and make one better.

Tree planting on private and public grounds is recommended, and it is requested that all public schools and places of learning throughout the state, will hold appropriate exercises to call attention to the importance of saving our birds and trees. Especial attention is called to the forest-fire laws. Campers should exercise care in selecting a place for a fire, and should extinguish it before leaving. Nor should trees and shrubs be needlessly marred by hacking with an axe or otherwise.

Therefore, I, Chase S. Osborn, Governor of the Commonwealth of

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Michigan, do hereby issue this my proclamation, designating May 2, 1911, Arbor and Bird Day throughout the commonwealth, and earnestly urge its observance.

On Saturday afternoon of this week the M. A. C. reserves will meet the baseball team from the Michigan School for Deaf, on the home field. Season tickets will admit to this game. To those not holding season tickets, a fee of ten cents will be charged. This will help to defray the expense of bringing the Flint boys here. The game will be called at 2:30 p. m.

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GEO. G. BLUDEAU & CO.—Bookbinders, account book makers, paper ruling, library and fine art bindings, file boxes, map mountings, albums, pocket books, etc. Citizens' phone No. 489. In City National Bank Building.

#### BOOTS AND SHOES.

WOODWORTH SHOE STORE.—115 Washington Ave. N.

#### CROCKERY AND GLASSWARE.

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

#### CLOTHING.

H. KOSITCHER & BROS.—Clothing, and Furnishings. 113 Washington Ave. N.

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

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

#### DENTISTS.

N. H. MOORE, D. D. S. Office 411-413 Hollister Building, Lansing, Mich. Citizens' phone. Automatic 9499.

D. E. PARMELEE, Dentist, 117½ Washington Ave. S., Lansing, Michigan. Automatic phone, office 3482; residence, 3483.

J. E. STOFFER, D. D. S. Office 203-5 City National Bank Bldg. Automatic phone 561; Bell phone 61. Former M. A. C. student.

#### DRUGGISTS.

ROUSERS' CAPITAL DRUG STORE. Up to date. Corner store. Opposite Hollister Block.

#### DRY GOODS.

DANGER, BROGAN & CO.—Lansing's Leading Dry Goods Store. 119-121 Washington Ave. N.

SIMONS DRY GOODS CO.—104 Washington Avenue South.

#### ELECTRICAL SUPPLIES.

CAPITOL ELECTRIC ENGINEERING CO.—Full line of Electrical Supplies, including students' shades and cords, carbon, tantalum and Mazda reading lamps. 117 E. Michigan Ave.

#### FURNITURE DEALERS.

M. J. & E. M. BUCK.—Furniture. Corner Washington Ave. and Ionia Street. See ad.

#### HOTELS.

WHEN IN DETROIT Stop at the Madison Apt. Hotel. The popular place for state visitors, shoppers, etc. Pleasant rooms. Beautiful cafe, moderate rates. Mrs. Elizabeth Brown, Mgr.

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

#### JEWELERS.

E. M. BENNETT—Watchmaker and Jeweler. Work called for and delivered. Residence, fourth house south of Tie House. Evergreen Ave., East Lansing.

#### MANUFACTURING AND HAIRDRESSING.

MRS. O. T. CASE.—Manufacturing, Shampooing & Hairdressing Parlors. Switches made of cut hair or combings, also colored and renovated to look as good as new. The Franco-American Hygienic Toilet Requisites a SPECIALTY. Automatic phone 551. 226½ Washington Ave. S.

#### PHYSICIANS.

DR. OSCAR H. BRUEGEL. Hours, 7 to 8:30 a. m.; 2 to 4 and 7 to 8 p. m. Sundays, 12 to 1 and 5 to 6 p. m. East Lansing, Mich. Citizens' phone 1344.

DR. H. W. LONDON, East Lansing, Mich. Office hours: 7 to 8:30 a. m., 12:30 to 2 and 6:30 to 8 p. m. Sundays, 10 to 11:30 a. m., 7 to 8 p. m. Citizens' phone 9228.

#### PRINTING.

ALLEN PRINTING CO.—111 Grand Avenue south. Printing and office supplies. Bell phone 1094. Automatic phone 4066.

ROBERT SMITH PTG. CO.—Cor. Washington Ave. and Ionia St.

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TRY KENDALL'S SHOP for Shoe Repairing. All work guaranteed. Machine or Hand Sewed Soles. Rubber Heels while you wait. Fine line of Confectionery Walter's old stand, Michigan Ave.