

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 16.

LANSING, MICHIGAN, TUESDAY, DECEMBER 13, 1910.

No. 13

## COURSE IN WORKS MANAGEMENT.

During the winter term there is to be offered by Prof. Kunze, assistant professor of mechanical engineering, a course in works management. This will supersede the course now styled "Shop Methods," M. E. 5 A. The new course will be very broad in its scope, the aim being to cater to the needs of the engineer, rather than to those of the artisan, which was perhaps better satisfied by the superseded course.

The mechanical engineer must deal with men as well as with things, and should, therefore, be to not only solve problems of manufacture but should also understand the ethics of the commercial shop and office.

The course will treat of the economic theory of factory location and of factory arrangement from the standpoints of maximum production, reduction of friction, building costs, fire risks, etc.

The fundamental principles of organization and management and the factors involved in the inter-relation of the several departments that make up an organization, with a consideration of the functional division of their several duties, will be studied.

The elementary factors of cost of production—materials, labor and expense, and the methods of production—systemization, standardization, duplication, specialization, etc., and their tendencies and effects will be considered. Under the head of methods of production, modern machinery and special devices for high speed manufacture will be studied, and in connection with this and other features of the course some of the Lansing factories will be inspected and their equipment and methods studied.

The employment of labor, labor problems, as well as wage compensating systems will be dwelt upon.

The course is especially laid out for seniors in mechanical engineering, but others who are properly qualified may take it if it does not conflict with their schedule.

The text book to be used will be "Factory Organization and Administration," by Diemer, but the lectures will not be confined to the book.

## HORT. TRIP.

Those who attended the fortieth anniversary meeting of the Michigan Horticultural Society are truly glad to have had such an opportunity of seeing presented the practical side of the fruit-growing industry of Michigan. We were more than glad to make the acquaintance of such men as President Smythe, Prof. Waite, W. W. Farnsworth, T. A. Farrand and others, who are leading not only Michigan horticulture, but American horticulture as well.

The discussions on spraying were particularly interesting, as were also the talks on apple growing. Miss Taylor showed clearly

what a woman could do in raising fruit.

At the banquet Tuesday evening several interesting toasts were given. One woman responded to the toast, "A Fruit-grower's Helper," by saying that no woman could be closer to her husband and more interested in his work than is the wife of a fruit-grower. She said she truly believed that the wives of progressive fruit-growers were the happiest of all classes of women. No wonder then that so many fruit-growers are successful.

After the banquet there was a general handshake with old and young M. A. C. alumni, among whom were C. W. Garfield, '69; C. B. Cook, '88; W. T. Parks and C. H. Hilton, '00; R. G. Thomas and S. B. Hartman, '03; C. A. Pratt, with '06; F. M. Barden, '08; C. C. Taylor, '09; S. A. Martin, '11.

The talks by M. A. C. students Wednesday forenoon furnished no little interest. Mr. L. B. Scott, speaking on "Plant Breeding," won first prize, B. W. Keith, second, and Arao Itano and J. G. France tied for third place.

The fruit judging was somewhat more difficult this year than formerly and required considerable discrimination. Mr. C. B. Tubergen captured the first place, U. S. Crane second and F. C. Dayharsh third.

The young lady chaperones furnished pleasant memories for even the most quiet, and we only wish that Benton Harbor may have another opportunity to give us such an enjoyable time. We most sincerely thank the Michigan State Horticultural Society for the interest they have taken in M. A. C., and assure them that that interest will be repaid with interest.

## FARMERS' CLUB.

At the Farmers' Club, last Tuesday evening, Mr. Henrickson gave an interesting account of the State Association meeting of Farmers' Clubs, held at Lansing, and to which he was a delegate. He told of the purpose of the organization, its aim and the means by which it accomplishes them. There are now 120 clubs in the state and the number is rapidly increasing. The club at the college belongs to the Association. This was the eighteenth annual meeting. The clubs are everywhere doing a great work and making their influence felt along agricultural lines and also in social and political.

The following officers were elected for next term:

Pres., Mr. Alfred Henrickson.  
Vice Pres., Mr. Carl Knopf.  
Sec., Mr. Duddles.  
Treas., Mr. Watts.  
Corresponding Sec. Mr. Herman Knoblauch.

Another debate will be held Thursday evening when each speaker will debate the opposite side of the question from that of last Wednesday.

## OLYMPIC VENISON ROAST.

The eleventh annual venison roast of the Olympic Society was held Dec. 3rd in their rooms. The decorations consisted of hunting effects, carried out by evergreens, camp fire, tepee, a rustic cabin and Navajo blankets. Lanterns, spelling the society name and one with society emblem, furnished the light.

The dancing, which commenced at 4:30 p. m., was enjoyed by 30 couples. The orchestra furnished a very good program of 24 dances. At 8:30 a flashlight was taken of the group, after which they were banqueted in Club A as follows:

Fruit Cocktail		
Celery	Saltines	Olives
	Roasted Venison	
Mashed Potatoes	French Peas	
	Jolly Punch	
	Rolls	Jelly
Fruit Salad		Nabiscos
Cake		Ice Cream
Nuts	Macaroons	Mints
	Coffee	

Prof. H. J. Eustace, '01, acted as toastmaster, and the following camp fire talks were given:

The Deer Hunter, D. A. Brice, '13.

The Hunted Deer, H. H. Bradley, '12.

The Captured Deer, C. L. Rose, '11.

After the banquet the dancing was continued until 11 o'clock. Dean and Mrs. Bissell and Prof. and Mrs. Eustace were the patrons for the evening.

The out of town guests were, Misses Ethel Thomas, of Grand Haven; Dora Dancer, of Stockbridge; Frances McDevitt, of Jackson; Harriet Baxter, of Auburn, Ind.; Helen Colville, of Chicago, Ill.; and Messrs. J. J. McDevitt and F. K. Webb, both of '09, from Detroit.

## PROF. G. H. COONS.

Prof. G. H. Coons, at present adjunct professor of agricultural botany in the University of Nebraska, has been appointed research assistant in plant pathology at M. A. C. He will devote three-quarters of his time to research work in plant diseases for the Experiment Station, and the remainder of his time to the teaching of plant pathology in the department of botany.

Prof. Coons is a graduate of the University of Illinois, at which institution, as well as in the University of Michigan, he has done post graduate work, specializing in plant pathology. Prof. Coons is married and has a little daughter of eighteen months. He will begin his work about Jan. 1.

The Y. W. C. A. gave a Xmas bazaar Saturday afternoon, and report an excellent time. There were offered for sale many fancy articles, home made candies, cookies, sandwiches, etc. The proceeds go to the general fund.

## ALUMNI.

'01.

Hugh P. Baker writes from Munich, Germany, as follows: "Upon receipt of this letter kindly change my address from that given above to the following: Department of Forestry, State College, Pa. We were very pleasantly surprised the other day to find that Miss Bertha Malone, M. A. C., '00, is here in Munich for work in the university, and with three M. A. C. people here (Mrs. Baker, '01), we can have quite a reunion. Prof. Bailey, of Cornell, was here during the summer, as was also Dr. Thomas F. Hunt, of the Pennsylvania State College, who received his doctorate from M. A. C."

'07.

M. A. C. RECORD,  
East Lansing, Mich.  
Dear Sir: Inclosed please find \$1 (one dollar) for two years' subscription to the RECORD. Mail to 115 Gt. Nor. Ry. Bldg., St. Paul, Minn., instead of to Gt. Falls, Mont., my last address. This winter I am traveling through the eastern states on the Washington and Montana exhibit car, sent out by the Great Northern Ry. We are on the Pennsylvania Ry., at present, traveling through Indiana, Ohio and Pennsylvania. If any M. A. C. men can visit the car they will find a hearty welcome awaiting them. I spent a very pleasant evening with H. I. Glazier, '07, in Chicago, two weeks ago, the first '07 man I had seen for two years. Beany is sure making good. I expect to make M. A. C. a visit some time this winter.

Yours truly,  
E. A. WILLSON, '07.

'09.

S. F. Knight, '09, civil, is engaged as engineer for the Leonard Construction Company of Chicago. He has just finished a big warehouse in Minneapolis upon which he served as assistant superintendent from May 1st until November 20th. The building was of reinforced concrete construction, nine stories and a basement. Mr. Knight is at home in Buchanan, Mich., for some weeks, but expects to begin active work with the company above named in the spring.

'10.

C. E. Smith is traveling for the D. M. Ferry Co., and is at present in North Carolina. Mr. Smith is enjoying his work through the south at this time of year very much.

"Story telling" has been made a part of the work for the sophomore girls in English the past term. The work has not only been carried on in class, but the pupils of the East Lansing public school have enjoyed the stories as well. On Dec. 6 a story telling contest will be held at which time eight members, selected by their classmates, will compete.

The M. A. C. RECORD

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B. A. FAUNCE, MANAGING EDITOR

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TUESDAY, DEC. 13, 1910

THREE more days and then—

ALUMNI number next week.

A Merry Xmas and Happy New Year to our students and may each one enjoy the vacation to the fullest extent.

IT was planned to give our football summary in this issue, but thought all our alumni would be interested and so have held it for next week. Want every alumnus to get a copy.

WE trust every alumnus who receives this week's RECORD will have at least one item of news for us next week. We are anxious to publish what will interest our old "grads" most and you can help by sending in an article, a line or two, or even a suggestion.

CONTRASTING MOODS.

She was just a slip of a girl, this teacher, with wide open eyes under a broad, high forehead, and a serious drooping mouth. She had tried so hard that day, but her head ached and her cheeks burned with fever. The figures on the blackboard swam when she explained Edward's problem, and the hand that helped little Annie to write was almost as unsteady as Annie's own. And did anyone ever see such illy behaved children! She scolded some and punished others, and with relief at last gave the order for dismissal.

Her heart was hot and angry as she stood at the door watching the line with bright eyes and rosy cheeks as they hurried past her. Then a small hand touched her own, and she found that in passing little Alice had thrust into her hand a slip of paper. Back at her desk she opened it, then her head dropped upon her arms while the tears, which had been denied all day, burst forth in a flood. But now, they were tears of love and not of anger.

She finished her day's work with a light heart, for somehow her head didn't ache so badly now, and it was quite a different girl who nodded cheerily to every one whom she met as she went down the village street.

Would you like to see the paper that could work such a wonderful transformation? Here it is, and scrawled in a childish hand are the words, "I am sorry you are sick, dear teacher, and hope you will be better tomorrow."

(R. L. in English 2e.)

The State Oratorical Association will hold a meeting at Ypsilanti on Dec. 17.

RESOLUTIONS.

Whereas, God in his infinite wisdom has seen fit to remove one from our midst,

Be it Resolved, That the Athenaeum Literary Society, through the columns of *The Holcad* and the college RECORD, extend to Brother J. H. Mathews our sympathy in the loss of a dearly beloved father.

Be it Resolved, That a letter of condolence be sent our brother.

Be it further Resolved, That a page of our minutes be set aside and inscribed with a copy of these resolutions.

G. P. SPRINGER,  
EDW. J. FRIAR.

AMHERST LETTER.

Most of the week beginning Nov. 14 I was in Washington or in going and coming to attend meeting of the Society for the Promotion of Agricultural Science, American Agricultural Colleges and Experiment Stations. Besides the meetings for addresses, papers, and discussions, it is an inspiration to meet so many first class men who are doing so much to advance agriculture and agricultural education. Walter Postiff, '09, was there. He will be remembered as a first rate student, who was selected for field work in entomology and horticulture by the U. S. Dept. of Agrl. before he had received his degree. He started with \$1000 a year, was soon raised to \$1200 and now to \$1400 a year. He is a farsighted young man, for he told me that he was about to resign his position and go to farming in some of its branches, feeling sure that in twenty years at least he will be financially better off and more pleasantly located working for himself than he would working on a salary roaming over the country with no fixed home. Few young men would follow the wise example of Mr. Postiff.

I had a pleasant interview with Dr. A. R. Hill, president of Missouri University. Now and then a student of M. A. C. will recall the fact that a certain C. L. Brewer is to move to Missouri. He is not to be known there as "Coach" Brewer ("coach," a word much overworked at M.A.C.) but as Professor Brewer, who will give a great part of his time to exercising the students who most need it.

At the meetings Michigan was well represented, most of whom took an active part according to program.

F. W. Rane, director of Forestry in Massachusetts, presented a paper on the Ravages of the Brown-tail Moth and the Gipsy Moth, which have devastated the country they occupy—both imported insects.

Already, over \$6,000,000 has been expended in the contest. Parasites have been imported and set to work. Much attention has been given to spraying machines, till now ten men with one machine of 12-horse power will spray to tops of trees standing on the ground 25 acres in one day. There are now more insects in New Hampshire than in Massachusetts where the insects first started their work.

Mrs. Fay (Wheeler) Eastman, '00, has returned with her mother to winter in California. Miss Rachel M. Proud is spending a few weeks visiting friends and relatives in New Jersey. I was surprised agreeably

to meet Hon. A. B. Cook, '93, of Owosso, at the meeting, where he was in active consultation with some of the foremost graduates of M. A. C. and others. As you know he has recently been selected as chairman of a committee of the alumni to counsel with the board of agriculture regarding the best interests of the college.

Thanksgiving day was the anniversary of the marriage of Pres. Butterfield and wife. The Bakers were divided up to eat turkey with President Butterfield and Treasurer Kenney, and the sole Beal went to Butterfield's.

By means of some misrepresentation white lies the president and wife were enticed to the horticultural building to see some apples—in reality to accept a fine punch bowl from neighbors and co-workers.

W. J. BEAL.

The Lansing ministers, with their wives, will be entertained at the Women's building this evening.

New storm sheds have been built for the postoffice entrance ways. The double doorways present a Chinese puzzle.

Messrs. Kempster and Linton have returned from the poultry institute at Guelph and report a fine time. A more extended notice next week.

Instructors Musselman and Liverance have been spending some time in the hospital, the former with an attack of quinsy and the latter with grippe.

Mr. J. S. McDowell of the department of agriculture, office of farm management, was a college visitor last week. His headquarters are at Wakeshaw, Wis.

The third annual organization service of the People's church was held Sunday. Rev. Goldsmith spoke on "The Church Inspirational," and Dr. Blaisdell on "The Church Institutional." Miss Bates and Miss Hubbard from the Woman's building furnished the music. The church was organized Dec. 8, 1907.

Prof. Halligan in a recent talk to the boys, spoke of the trophy room at Amherst, and the idea took so well that plans are already being made to arrange as soon as possible a room for this purpose. Banners, relay cups, etc., would find a place in this room, as well as the ball which "Cort" succeeded in securing at the close of the Marquette game. M. A. C. would certainly have a good start for such a room.

The department of farm crops has had an experimental grist mill installed which, though miniature in form, does exceptionally good work. It will be used in determining the milling quality of wheats which are being bred and tested on the station. The milling quality is one of the important things to determine before making a distribution of grains over the state. There are certain kinds which produce well and yet do not mill out as they should, and this little machine will be used as a means to determine which are the most valuable to grow.

There is also a machine called a scourer which removes the small hairs from the grain, and also thoroughly dusts the kernel, putting it in shape to be ground by the mill. Both machines are run by a small dynamo.

The officers of the Union Literary held their annual feed Saturday evening, and entertained several alumni members.

Secretary Brown spoke before the sociology class at the First Baptist church Sunday on the subject, "The Farmer as a Sociological Factor."

The board has been audited for the various clubs, and the prices for the term are as follows: A \$2.85; B \$2.90; C \$2.15; D \$2.28; E \$2.93; G \$2.70.

Several of our literary societies presented Christmas programs Saturday evening, the gift feature being made a part, and some indulging in Xmas trees.

A committee representing the societies and the faculty have under advisement certain methods for controlling the public speaking interests of the college.

College men to attend one of the various meetings and visit the land congress in Chicago last week were Dr. Marshall, Profs. Eustace and Taft and Field Agent White.

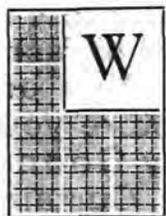
Mr. and Mrs. Horace Norton, Howell, visited college and Lansing friends over Sunday. They leave Howell Friday for State College, Pa., where Mr. Norton will have charge of Farmers' Week and also do some instructional work in connection with the short courses to be offered at that college.

The Sunday school at East Lansing are making plans for Xmas. A luncheon was given the teachers and officers Sunday evening at the home of Dr. and Mrs. Blaisdell, following which a business session was held. Committees were appointed and plans started to make this an enjoyable Christmas tide for all.

The annual Christmas party, given by the Idlers Friday evening, was a huge success. The parlors and halls were prettily decorated with holly, Christmas bells, and bunting, and in the center of the room was the tree with its candles, mistletoe and gifts. Fires were laid in both grates, and the room presented as merry and cheery a scene as one could wish. Christmas carols were sung, and then the gifts were distributed by four sprites who forgot no one.

The date for the meeting of the State Corn Improvement Association is Jan. 16-21. In connection with this meeting, which will be held at the college, a one-week course in corn judging will be given. Premiums will be offered for corn, wheat, etc. It is planned to send the best of the samples to the national exposition held at Columbus January 31 to February 11. One day will be known as seed improvement day, and a program will be arranged for each day.

The senior foresters visited the Grand Ledge Chair Co. Thursday of last week. Starting in the yards the boys took up every step in the manufacture of the chair until it was packed ready for shipment, particular stress being laid upon the kinds of woods used in chair manufacture. At the present time this company is getting out an order for 8,000 chairs for the U. S. War Department, all to be of solid mahogany. This order will be distributed to different forts and stations in the U. S. and Philippine Islands.



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COLLEGE BUS HEADQUARTERS

ABOUT THE CAMPUS

E. R. Baldwin, with '11, is assistant chemist with the Michigan Sugar Co., at Sebawaing, but leaves in February for Cuba.

Miss Edna Belle Hopson, for two years assistant in music, was married August 31, to Mr. Fayette Clyde Simpson, at Owosso.

Miss Caroline Goritz, stenographer for Dr. Marshall, who has been ill for several weeks, is doing nicely and expects soon to be at her post.

W. J. Geib, '02, visited his brother H. V. Geib, '13, on Thursday and Friday of last week. Mr. Geib is with the division of soils, Department of Agriculture. He has spent the summer in Wisconsin, and will go south in January.

Rev. F. M. Edwards died at his home in Stony Creek, Va., on Saturday, Dec. 3, at the age of eighty-four years. Rev. Edwards was the father of Dr. Howard Edwards, for fourteen years professor of English and modern language at M. A. C., now president of the Rhode Island Agricultural College.

At the last meeting of the athletic board of control monograms were awarded to the following football players: Capt. Cortright, Stone, Exelby, Campbell, Hill, and Pattison were given football blankets; Baldwin, Montfort, Riblet, McWilliams, Leonardson and Culver received football sweaters. Pingle, Ballard, Davis, Gorenflo, Shuttleworth, Morelock and Horst were granted "R" sweaters for their work as reserves.

Prof. Pettit recently made a hurry-up business trip to Buffalo.

R. C. Hardy, with '91, of Howell, called on college friends Wednesday of last week.

The Hort. Department has received from Chicago Green House Co. a miniature greenhouse. The building is easily taken apart and will be used in the study of greenhouse construction.

The Domestic Art Department will give an exhibition of the term's work, consisting of party gowns, wool dresses, silk waists, etc., Thursday, Dec. 15, from 3:00 to 5:00. All are invited to attend.

Little Edmund Robson was severely injured Wednesday of last week while coasting on the hill near the public school house. He was thrown from his sled and received a bad gash over the eye. Edmund is a son of Mrs. George Robson of our English department.

The new plan has been tried this fall of printing the fundamental layouts for the course in descriptive geometry, with the expectation that it would enable the students to solve a larger number of problems in a given amount of time. It is gratifying to be able to record that the plan has worked very successfully. While the exact percentage of time saved for the solution of problems is not known, still it has proved a very material time saver. It is probable that the plan will be tried with other courses. The course as followed was designed by Profs. Wilson and Newman.

A. H. Perrine, '10, of Jackson, is doing testing work for a short time with our department of animal husbandry.

The Aureoan society gave an enjoyable "feed" Saturday evening. Lee Bancroft presided as toastmaster, and Messrs Jack DeKonig, R. E. Brightup and Prof. A. J. Clark responded to toasts.

Marion J. Carley, of Royal Oak, has been engaged for the next two years as campaign manager of the Prohibition party of the sixth congressional district. He is an able speaker and campaigner, and devotes his entire time to the work.

Henry Ross, '04, stopped at M. A. C. Thursday of last week on his way home from Chicago, where he has been with his sister, Mary Ross Reynolds, since the death of her husband. Mrs. Reynolds is now at the home of her parents near Milford.

The *Wisconsin Horticulturist* presents in a recent issue a splendid likeness of Prof. James G. Moore, together with a fine write up. Mr. Moore graduated from M. A. C. in '03, and was granted his master's degree in 1905. He received his appointment as associate professor of horticulture at Wis., in June, 1910. The *Horticulturist*, which is the official organ of the Wisconsin State Horticultural Society, adds: "Prof. Moore is well known to our members who attend the convention and we hope all others will make his acquaintance. It is worth while."

Ellis W. Ranney, '00, of Greenville, was a college caller between trains one day the past week.

W. M. Rider, '08, states that the Winona College of Agriculture, Winona, Ind., are planning on a college paper next year. Please exchange, William.

Ohio State University is very anxious to secure a game with M. A. C. next fall, at Columbus. Ohio is one of the strong university teams, holding Michigan this season to a tie 3-3 score. In the event of a game with that institution next fall, a return game would, of course, be played in 1912.

At the close of an excellent debate Thursday evening officers were elected for the winter term as follows: Pres., U. S. Crane; Vice Pres., F. H. Ewing; Sec. and Treas., F. Meyers; Chairman of Membership Committee, W. C. Corey; Chairman of Program Committee, L. L. Jones.

An improvement worthy of note has been made in the department of farm mechanics. There has been built a concrete foundation of 44 feet and 16 or 18 inches high, upon which will be set the various gasoline and steam engines used during the winter term in demonstrating farm power machinery. A large exhaust pipe runs through the center and ample water pipes are also supplied. The work is built in sections and a part or all may be removed easily. There is room for 20 ordinary engines on this foundation.

**DREAMS WORTH WHILE,  
SAYS DR. J. B. ANGELL.**

"Dream your dreams, and see your visions, young men, for they will yet become facts." Dr. J. B. Angell, President Emeritus of the University of Michigan, spoke these words, half admonishing, half prophesying, to fourteen hundred students gathered together in Waterman Gymnasium, on the occasion of the Michigan Union annual smoker. The theme offered by Dr. Angell was taken up by each following speaker, and recurred again and again in succeeding speeches.

"There were dreams before you came to the University, that have resulted in hard facts," declared Dr. Angell addressing the students before him. "This building was dreamed of for at least ten years; and when we had become despondent about our vision of a great gymnasium, a man whom I had never seen offered a large sum that made the building possible.

"An old gentleman, long since gone to his reward, also dreamed as far back as 1837—dreamed of a University of Michigan. He came upon Cousin's book upon German education and interested a man by the name of Cray in the city of Marshall. The first of these dreamers, who was John D. Pierce, used to tell me that he could take me out into the woods and show me the exact log upon which they sat and read. As a result of their dreaming the University of Michigan was founded.

"Thus you see, we have been growing up on dreams from the beginning; and, therefore I charge you to dream your dreams and see your visions, and go on with your glorious work."

The Olympic society officers are: Pres., H. S. Peterson. Vice Pres., E. H. Shuttleworth. Sec., D. A. Brice. Treas., C. L. Merwin. Marshal, L. B. Kellogg. RECORD Editor, W. E. McGraw.

At the Cosmopolitan club, Friday evening, Dr. Bessey spoke on German universities, and of the student life in Germany. Mr. Ellman gave an interesting talk on the present conditions in Russia. Mr. Glehler, of the Lansing public schools, gave an interesting talk. Mr. Lamberg furnished musical entertainment with guitar and mandolin.

Miss Katherine Ransom, '12, who left college recently on account of ill health, was operated upon for appendicitis on the 7th inst. in her home city, Columbus, Ohio. The surgeon employed was Dr. Baldwin, the first student to take post graduate work at M. A. C., and a cousin of Prof. Kedzie. Miss Ransom is doing nicely and expects to be able to return for the winter term.

Hon. Chas. W. Garfield, on Monday, addressed the junior girls in horticulture on the subject of greenhouse work. In the afternoon he spoke to the hort. students on the great opportunities in horticulture, and mentioned special cases which had come under his observation. Many of these had met with splendid success, although having but limited means with which to begin.

**THE FARMER IN RELATION  
TO THE WELFARE OF  
THE WHOLE COUNTRY.**

There is but one person whose welfare is as vital to the welfare of the whole country as is that of the wage-worker who does manual labor, and that is the filler of the soil—the farmer. If there is one lesson taught by history, it is that the permanent greatness of any State must ultimately depend more upon the character of its country population than upon anything else. No growth of cities, no growth of wealth, can make up for a loss in either the number or the character of the farming population. In the United States more than in almost any other country we should realize this and should prize our country population. When this nation began its independent existence it was as a nation of farmers. The towns were small and were for the most part mere seacoast trading and fishing ports. The chief industry of the country was agriculture, and the ordinary citizen was in some way connected with it. In every great crisis of the past a peculiar dependence has had to be placed upon the farming population; and this dependence has hitherto been justified. But it can not be justified in the future if agriculture is permitted to sink in the scale as compared with other employments. We can not afford to lose that preeminently typical American, the farmer who owns his own farm.—[From President Roosevelt's address at M. A. C. Semi-centennial.]

From some resurrected examination papers:

"The cylinder is an iron chist shaped like a baking powder can."

"The steam gage reckons the horse power of the engine."

"The bellows is used for blowing the dirt off the mould."

"The jig saw works automatically, the saw working up and down on the jump."

"Cylinder—a large steel casting used to make steam in, shaped like a barrel."

"The blower is used to make air which makes the blast."

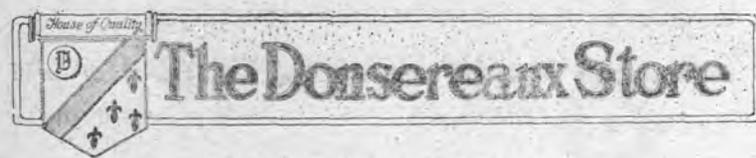
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**N. H. MOORE,** D. D. S. Office 411-413 Hollister Building, Lansing, Mich. Citizens phone, Automatic 9499

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**DR. H. W. LANDON,** 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.

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