

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 11.

LANSING, MICHIGAN, TUESDAY, SEPT. 10, 1905.

No. 1

NEW INSTRUCTORS.

S. W. FLETCHER, M. S., PH. D.

Prof. S. W. Fletcher, who succeeds Prof. U. P. Hedrick as professor of horticulture, is a native of Massachusetts, having graduated from the Agricultural College of that state in 1896. During the year of 1896-97 he was assistant in horticulture at the Massachusetts experiment station. He secured a fellowship in horticulture at Cornell in 1897-'98, and received his M. S. degree in 1898. He was then made assistant in horticulture at Cornell University, which position he held until 1900, at which time he was granted the degree of Ph. D. In the fall of 1900 he was made Professor of Horticulture and horticulturist of the experiment station at Washington Agricultural College, which position he held for two years. During 1902-'03 he held a like position in West Virginia University, and for the past two years has been professor of extension teaching in agriculture at Cornell.

E. H. RYDER, M. S., instructor in history and economics, is a native of Michigan. After his graduation from the State Normal at Ypsilanti, he was for several years principal in the Traverse City schools. He entered the University of Michigan in 1900 and graduated with the M. S. degree 1903. He then taught for one year in the department of history and during the past year has taken post graduate work.

RACHEL H. COLWELL, M. A., who will have charge of the domestic science department the coming year, is a native of Rhode Island. Miss Colwell graduated from the Boston Cooking school in 1899, was granted the B. S. degree from Denison College, Ohio, in 1903 and the M. A. degree from Columbia in 1905. After graduation from Denison College she taught in the Shepardson school for one year.

BESSIE BENIS, B. S., instructor in domestic science, was born in Portland, Mich., graduated from the Ionia High school in 1900 and entered M. A. C. in the fall of 1901. Miss Benis is a member of our last graduating class and did some instructing work during her last term in college. She will hold the position formerly occupied by Miss Purmort.

O. W. BURK, B. S., instructor in physics, graduated from the Almont high school with the class of 1901 and in Sept. of that year entered M. A. C., graduating from the mechanical course last June. Capt. Burk is so well and favorably known at M. A. C. that he needs no introduction. He will occupy the position held by Mr. Peters last year.

L. D. BUSHNELL, B. S., a graduate of this institution last June, has been engaged in the department of bacteriology and hygiene for the coming year. His work will be primarily dairy bacteriology.

H. F. TUTTLE, B. S., also a member of the class of '05, will



S. W. FLETCHER, M. S., PH. D.

occupy the position held last year by Mr. Clark. His work, which will be under the direction of Mr. Sackett, will be that of assistant in plant and soil bacteriology.

MISS NORMA GILCHRIST, sister of Dean Gilchrist, who acted as instructor in English during the fall term 1904, has been elected to a position in the same department for the coming year. Miss Gilchrist is a graduate from Wellesley, '04, and during the past year has taught English in the Des Moines high school.

CORA L. FELDKAMP, B. S., who graduated from this institution last June, succeeds Miss Bilbach as assistant librarian. Miss Feldkamp's home is near Ann Arbor, from which place she entered M. A. C. in the fall of 1901.

HORACE S. HUNT, B. S., instructor in drawing, was born in Jackson, Mich. After spending some time in this Jackson High School he entered the College in 1901, graduating with the class of '05. Mr. Hunt represented his class as orator at commencement last June and is well known to our faculty and students. He will fill the position formerly occupied by Mr. Palmer.

MISS ANNA ROBINSON, instructor in domestic art, has spent about two years at M. A. C. and has had some practical work at Charlotte. Miss Robinson is a Lansing girl and well known to us.

MR. RUDOLPH ROSENSTENGEL has been chosen to fill the vacancy in the mechanical department caused by the resignation of Mr. Shedd. Mr. Rosentengel is a graduate of the University of Wisconsin and has had quite extensive experience as a designer of mechanical and electrical apparatus. He resigns such a position with the Mechanical Appliance Co. of Milwaukee to accept the position at this college.

CAPT. FUGER, Commandant of cadets, is a native of New York and a graduate of the Massachusetts Institute of Technology, class of 1891. He entered the service in Aug. '91 and served at Forts Leavenworth, Sill and Reno during



CAPT. FUGER.

the first year. He then entered the Infantry and Cavalry school at Leavenworth, graduating from the same in 1895. Served at Governor's Island until April '98 when he went with his regiment to Cuba. Was with Gen. Shafter's expedition through the Cuban Campaign, commanding his company at San Juan Hill after the death of his captain July '98. Received First Lieutenantcy in Apr. '98. Returned from Cuba to Governor's Island and did temporary recruiting duty. He was in command of his company in the P. I. from Nov. 20, '99 to July 19, 1902. Since 1902 he has served with his regiment in California until the present time.

ARTHUR PETERS, instructor in physics during the past year, is drafting with the National Bridge Co. of Bedford, Ohio.

W. P. ROBINSON, '05, was married in July to Miss Emily L. Wilkinson. Mr. and Mrs. Robinson are at home to their friends at 260 Helen Ave., Detroit.

S. C. HADDER, instructor in civil engineering, comes from Illinois University, graduating with the class of '05 with the degree of B. S. in civil engineering. He has been working during the summer in Alabama on preliminary surveying for a railroad. He also mixed his course with practical work, having entered the university with the class of '04.

S. A. HINDS, B. S., graduated from the Stanton high school in 1900. One year later entered M. A. C. and completed the mechanical course last June. Mr. Hinds has been elected to the position in civil engineering held last year by Mr. Mills.

GEORGE L. STEVENS, B. A., instructor in English, is a native of Virginia. He entered William and Mary College in 1893, from which he received both the degrees of B. A. and B. L., and acted as instructor in French and German for one year. He was a student in Johns Hopkins University for three years, and acted as instructor in modern languages and history at Stevensville Training School during last year.

ALUMNI.

L. C. Brooks has changed his location from Cramps Shipyard, Philadelphia, to navy yard, Boston, where he is master electrician in the C. and R. department. This change is the result of an examination at which there were thirty-four competitors, most of whom were graduates of Cornell, Harvard, Boston, etc. As there is only one other electrical job in the navy department better than the one Mr. Brooks now holds, the result of his examination is very gratifying indeed. Mr. Brooks has an excellent article on the "Application of Electric Power to Auxiliary Machinery in the Navy" in the August number of the *American Electrician*.

Mrs. Jeannie Sherrard Hayes, wife of Arthur Hayes of the above class, died June 13, 1905, at the home of her parents in Homer, Mich., where she was visiting. She was only sick a few hours succumbing to neuralgia of the heart. The following, taken from the *Homer Vidette*, shows to some extent the estimation in which she was held: "The death of one young in years, of strong intellect, winsome, level-headed, gracious, pure, casts a deep impenetrable gloom over a community. More so is it felt when a young promising life is taken away without a moment's warning. Homer has again been made to feel this gloom in the death of Mrs. Arthur Hayes." The news of Mrs. Hayes' death was not received early enough for the last issue of the *Record* in June, but we feel sure that this will be read by many of the former friends of Mr. Hayes who will, with the *Record*, extend to him sincere sympathy.

V. M. Shoemith and wife, of the Kansas Agricultural College, visited their parents at Leslie during the summer and called on College friends July 26.

W. R. Wright, who was with Dr. Marshall the past year, will be assistant in Bacteriology in Oklahoma Agricultural College the coming year.

J. G. Moore who took his M. S. degree at M. A. C. last June, has secured a position in the University of Wisconsin, as assistant in horticulture.

MR. F. I. RITTENOUR, instructor in chemistry, is a graduate of the Ohio Wesleyan University at Delaware, Ohio, his home being at Kingston, Ohio. Mr. Rittenour has been elected to the position held by Mr. Williamson last year.

MR. E. L. LARSON, instructor in chemistry, is a graduate of the Colorado School of Mines, '05. Mr. Larson is a native of Missouri, his home being at St. Joseph.

THE M. A. C. RECORD.

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H. A. FAIRBANKS, Managing Editor.

Associate Editors:

E. A. WILLSON, '06.

H. S. COOY, '06.

R. H. GILBERT, '06.

J. E. PARSONS, '07.

R. A. TURNER, '06.

GRACE WARNER, '06.

CAROLINE LAWRENCE, '06.

FLORENCE GILBERT, '07.

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TUESDAY, SEPT. 19, 1905.

"IT IS JUST like coming home." This is what they say after the long summer vacation is over and the students return to M. A. C. It is good (even in the rush) to see the happy faces and hear the words of greeting among each other, as one after another takes his place to be "assigned." And why not? M. A. C. never looks quite as inviting as when, after spending four or five years the student must commence for himself. Let us, therefore, make the most of our opportunities while here, which if we do will better enable us to take hold of the duties which will confront us afterward.

Ye editor desires to thank all who so kindly aided him in the work last year, and asks for the same helpful co-operation this, without which a college paper cannot be made a success. Let us make the RECORD the best yet. Make use of the boxes.

WE SHALL endeavor to reach every new student with a copy of the first issue of THE RECORD, and trust that many may decide to subscribe. It shall be our aim to convey to our readers all interesting happenings about the College as well as something of those who have left us and entered their various fields of labor. Y. M. and Y. W. C. A., athletics, society parties, the various club meetings, all will be noted and you should know something of them. The subscription price is only 50c. with a paper sent to your home free of charge. Better see to it at once and thus get the first issues.

FOOT BALL

Foot ball practice started last Thursday and the prospects are very bright for a winning team this year. The schedule which will be presented to the faculty for approval is given below:

September 30, Flint at M. A. C.
October 7, Notre Dame at Notre Dame.

October 14, U. of M. Freshmen at M. A. C.

October 21, Olivet at M. A. C.

October 28, Armour Institute at M. A. C.

November 4, Kalamazoo at Kalamazoo.

November 11, Albion at M. A. C.

November 18, North Western at Evanston.

November 25, Alma at Alma.

November 30, Ohio N. U. at Ada, Ohio.

This is the best schedule the institution has ever had and with a strong team we are confident of making a good showing, and of not only upholding the reputation already earned but gaining a greater.

It is believed that we will have as strong, if not a stronger team than ever before. There will be seven or eight of last year's team back besides four substitutes and eight of the best second team men. The old men who will return are Capt. McKenna, Doty, Holtsworth, Small, Fisk, McDermid and Boomsliter. Of those who played parts of the season last year, Wright, Babe Kratz, Graham and Boyle will be on hand. There is also assurance of a goodly number of new men who will be candidates. McKenna brings an "Irish Brother" with him. Capt. Gardner of the high school team at Lansing last year and several others who have played good ball in their respective schools will be here.

It is hoped to have a big squad at work at once and all are invited to come to the athletic field for practice. Suits will be furnished and you can rest assured that you will be given a chance to make good.

NOTICE TO STUDENTS.

For the benefit of the students of the college, in order that telegrams, telephone and other messages may be promptly delivered, each student will register his name, home address and rooming place and any change in the latter, in the book provided for that purpose in the secretary's office. We will not be responsible for the delivery of any messages to students who are not so registered.

A. M. BROWN, Secretary.

Y. M. C. A.

Prospects are bright for a good year in the Y. M. C. A. All officers of the association are back in school again, and the work has started forward in a way that gives great hopes of a successful year.

The first meeting will be held Thursday evening at 6:30 in the Y. M. C. A. room, Williams Hall. Every man in school is invited to this meeting, which will serve to renew old acquaintances and form new ones.

The opening reception for men will be held in the Y. M. C. A. at eight o'clock Friday evening. This is the opportunity for all men of the College to enjoy a social time for two hours and become acquainted with each other at the beginning of the year. Every one is asked to attend.

Sunday evening the meeting in chapel at seven o'clock will be for men. Mr. Hurst will have charge of this meeting and special music will be furnished by some of the boys. These meetings are open to all college men, both faculty and students.

An information bureau will be conducted in the Y. M. C. A. during the first few days. Dailies and magazines are on the reading tables in the association for all to read. All are welcome to the room at any time from seven a. m. to seven p. m.

Call at the Y. M. C. A. and get a hand book.

FARM DEPARTMENT.

Owing to the lateness of the appropriation in the work of moving and refitting the barns did not begin until the last week in June. Also, owing to the fact that only one half of the money appropriated was available this year, but a part of the work was undertaken.

What was known as the grain barn, located across the lane from the farm foreman's house, was moved down into the dairy barn yard and placed end to end against the grade herd barn which was moved last year from its location near the large dairy barn. The annex to the old beef barn was also moved to the south side of the court, and the sheep barn moved into position on the west side of the court. The roof of the old grade herd barn was raised up to the same height as that of the grain barn adjoining it. These two buildings, now made into one, have been fitted on the south end for the use of the grade dairy herd and on the north end for experimental work with beef cattle.

Cement floors have been put in and two or three different kinds of stall fixtures are used, the idea being to make the fittings as practical as possible rather than to put in those of a fancy nature.

The sheep barn is at present being refitted and several changes in the old plan will be made. Sixty feet will be added to the north end of this barn to be used for experimental work with sheep, and is planned to accommodate a small car load of lambs or weathers.

Two new silos are in process of erection. One is built with solid cement wall, while the other consists of staves of different materials treated in various ways with preservatives.

Some of the yard grading has been undertaken but owing to the lateness at which this work was begun, it will be impossible to complete the same this year.

The building known as the experiment station barn was moved to a position west of the piggery between the P. M. tracks and the river. This building is being refitted as a hospital for the treatment of sick animals belonging to the college and also for such as may be shipped in for treatment or experiments as well.

MECHANICAL DEPARTMENT.

SUMMER SCHOOL.

The attendance at the summer school, while not large, those in attendance were men engaged in practical work, and showed much interest in the subjects pursued, and the results were very satisfactory. The limited number in attendance was no doubt due in part to the rather high tuition demanded which was something of a new feature at this institution. It is confidently believed, however, that if the work was pushed among the class of men for whom the school was designed, it could be made a prominent feature of the work of the College.

MILLING MACHINE.

Part of the work done in the machine shop this summer was in connection with a drilling machine designed by the class of '01. This machine is so designed that it may

be used for both drilling and milling. On account of the large size of many of the parts, the construction of the machine was somewhat delayed, but it was started as soon as practical after being designed and was nearly completed this summer. It will doubtless be in service this term.

This is a large machine in which both the spindle and head have vertical adjustment. The table is adjustable vertically on and horizontally around the column, and in addition to these two adjustments it is provided with cross-feed movements in two directions at right angles. The handle for raising the table, which is usually placed close to the column and is therefore somewhat inconvenient, is in this machine placed at the front of the table. Indeed, all the handles are within convenient reach of the operator. The machine has automatic feed, automatic stops and quick return, and is powerfully back-gear. Being so designed as to admit of use for either drilling or milling, this machine should prove a valuable addition to the machine shop equipment.

During the summer school a bed for a large lathe was cast, which weighed 1050 pounds. It was quite a difficult piece of work, and credit is due those in charge for handling this large casting so successfully.

Several improvements in the forge shop are noted in the way of painting, new screens, etc.

Practically every graduate from the mechanical department last June (25) was employed within a few weeks after graduation.

Mr. Ward R. Shedd '02, formerly engaged in engineering work in Pennsylvania and more recently instructor in the mechanical department, has resigned his position at the college to again enter practical work. He will be associated with his brother in contracting work. He is at present at his old home, Tekonsha, Mich. Mr. Shedd was very successful in his work at M. A. C. and his many friends extend to him best wishes for the future.

Work in connection with the power plant has been progressing rapidly during the summer, the work being carried on mainly by college labor. The most important feature is the large coal shed which is nearing completion, and of which we shall say more in detail in a future issue.

74.

George W. Brewer is now at Morris, Minn., where he is employed by Uncle Sam as disciplinarian in an Indian school. Mr. Brewer will also be foreman of a farm of 300 acres.

With '85.

T. A. Williams, of Grand Rapids, with Prof. Towar, attended the Good Roads Convention recently held in Port Huron, and stopped at M. A. C. a short time on his way back. Mr. Williams has been County Surveyor of Kent county for about thirteen years.

72-74.

Marcus B. Stevens, '02, and Miss Elizabeth Johns were married Monday, August 14, at San Francisco, Cal. Mr. Stevens has a position with the Department of Agriculture, his work at present being in California. The young people are both well known to many of the M. A. C. alumni, who will, we are sure, join us in extending congratulations. Their home for the present is at Millbrae, Cal.

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ABOUT THE CAMPUS.

Dr. Edwards and family were at their old home in Virginia all summer.

Mr. Richard Hopkins will labor at Cornell this year as instructor in mathematics.

Dr. Waterman and wife spent four or five weeks of the summer at Salem, Mich.

Prof. Jeffery spent a few weeks with relatives and friends in Wisconsin and Dakota.

President Snyder spent two or three weeks at his old home in Pennsylvania during July.

A fine Tennessee marble slab has been placed at the cashier's window in the secretary's office.

Prof. Holdsworth spent a portion of the summer, with his family, at his cottage home near Traverse City.

Prof. Kedzie tried a vacation, but as he was taken ill, decided that he could not afford to stay away from M. A. C.

Prof. Babcock and family were at their summer cottage at Crystal Lake, near Frankfort, the greater part of the summer.

Prof. Pettit spent a short time during the summer studying insects and diseases of crops and forest trees in Northern Michigan.

Miss. St. John, instructor in sewing at M. A. C. the past year, has a similar position in the Saginaw public schools for the coming year.

Prof. W. O. Hedrick and family enjoyed the cool breezes of Little

Traverse Bay, a few days during August and September.

L. T. Clark, '04, assistant in bacteriology during the past year, has an excellent position with Park, Davis & Co. for the coming year.

Mr. George W. Hartwell, instructor in mathematics for two years has been granted a scholarship, and will study at Columbia this year.

Louis G. Michael, with '01, spent a few days with college friends returning the latter part of August. Mr. Michael is chemist of the Iowa experiment station.

Miss Alice Gunn, '02, in charge of the domestic science department at Iron Mountain Schools, spent her summer vacation at the home of her mother in Collegeville.

Miss Gilchrist spent a portion of her vacation at her home in Iowa, and also took a trip with Miss Belle Crowe, of Wisconsin University, to the latter's home in Nova Scotia.

L. F. Bird, '04, with the agricultural department during the past year, has returned to his old home near Millington, where he will have charge of his father's farm.

Miss Clare Dean, '02, was a college visitor on Aug. 24. Miss Dean has been obliged to seek a change of climate on account of ill health and will spend the winter in the West.

Mr. L. G. Holbrook, instructor in physics at M. A. C. for several years, has been elected to the chair of physics in the schools at Omaha, Nebr., and left Sept. 9 for his new

position. Mr. Holbrook attended the summer school at the University, where he took his advanced degree in mechanical physics and electrical engineering.

Prof. George Humphrey and wife of Wisconsin University spent their summer vacation in Michigan, and Prof. Humphrey made college friends a hurried visit during the latter part of July.

Prof. Bogue has been busy building a new house a good part of the summer. The Professor has purchased several a res of land east and south of the college orchard and will have a very pleasant home when completed.

Mr. F. A. Loew, '01, with Dr. Beal during the past year, will have charge of the department of botany in Central College at Huntington, Ind. Mr. Loew graduated from the above college before entering M. A. C.

The matter of a memorial building has been taken up by the state board and has been favorably acted upon. Next week we hope to be able to publish a full statement as to the origin and purpose of this building, which it is hoped will be erected in the near future.

Mr. P. M. Lyman, for several years clerk in our college post office, has been tendered the position of purchasing agent at the college. He will do all the buying of provisions for the clubs. We are all glad to welcome Mr. Lyman back to old M. A. C. where he has labored so long.

The State Board recently voted to install a complete electric lighting outfit, set aside an amount for this purpose, and it is expected that early in the coming year the entire plant will be practically completed.

Through Mr. N. Snyder who acts as agent for Mr. Wells, the first floor of the White Elephant has been secured for a boarding club. The club will be in charge of Mr. G. P. Boomsditer as Steward and will accommodate about fifty students.

Miss Elida Yakeley, who for two years has had charge of the general office work in President Snyder's office, resigned her position on August 1st, and expects to be at her home in Lansing the coming year. Miss M. Addibelle Bentley of the Ferris Institute has been elected as her successor.

On Sept. 6, A. R. Alger '01, instructor in mathematics, and Miss Minnie Backus were united in marriage at the home of the bride's parents in Hesperia, Mich. The young people are now settled in one of the Blair cottages in Collegeville where they will be at home to their college friends.

The contract for the new laboratory was awarded to C. Atwood A. Skinner of Lansing and the work is well under way. The building will be somewhat larger than the old Wells. It is expected that the laboratory will be ready for use in a future session. The general public will be invited to see the building.

WORK SHOP METHODS

Is the title of a new book by our Mr. W. S. Leonard of the mechanical department and published by John Wiley & Sons. It is a fine large book of nearly six hundred pages and six hundred eighty-nine illustrations, and is published ostensibly as a third edition of the shop notes used in the mechanical department. It is in reality, however, practically a new work prepared by Mr. Leonard, and in order that some idea of its value be understood we quote from a notice which appeared in the *Engineering Record* Aug. 19.

"This book is nominally the third edition of a book previously issued in the form of loose leaves for the students in the mechanical department of the Michigan Agricultural College. Really it is a new work, and a very good one, in its own special field. It is a description of the various tools now used in machine shops and an explanation of their use. Beginning with the gauges, rules, hammers, chisels, files and other hand tools, the author gradually proceeds through drills, lathes, boring machines, planers, shapers, slotters, milling machines, grinding and polishing machines to the final chapters on certain broad principles in shop practice. In all this field the book is essentially descriptive; fortunately no attempt is made to solve the problems facing the designer of machine tools, for this field is already well covered by Mr. C. L. Griffin's 'Elementary Text-Book on Machine Design.' Mr. Leonard's work is based on the assumption that the tools described are well designed, and that the reader is only concerned with the way they run and the class of work they will turn out when properly handled.

Some engineers may object strongly to any attempt to teach shop practice by textbooks. It is not the intention of Mr. Leonard to undertake this impossible task, but rather to supply such information concerning the equipment of shops as can be readily understood by anyone. As a matter of fact, all the information in this book should be possessed by every mechanical and electrical engineer, while it is a debatable question whether any more is needed except by those who propose to become shop managers."

Mrs. M. L. Doe, of Bay City, will pass some time as the guest of Mrs. Haner, at the Woman's Building.

Dr. Beal spent some time in Lenawee county, South Haven and Adrian during the summer, collecting plant specimens.

Miss Marguerite Barrows '04 left yesterday for Smith College located at Northampton, Mass. where she will spend the coming year in study.

W. Morten Barrows '03 is at home for a short vacation. He expects to return to Harvard the last of the month and will take a year of post graduate work in zoology.

The M. A. C. district school opened yesterday. Much improvement is noticed in the building which suggests that this important feature of M. A. C. work is not to be outdone. A second story has been added, and in addition to the room previously available, there is a new large room on the second floor 30 x 70 feet, and spacious halls both

upstairs and down, in which are found plenty of wardrobe room for all. Miss Sadie Richardson, of the '05 class will have charge as principal, and Miss Alta Ward, of Mason, will be her assistant.

Mrs. Haner spent her entire vacation in the West, mainly at Spokane, Wash., with her sister, Miss Florence N. Kent, who for the last fifteen years has been principal of the largest ward building in that city. Mrs. Haner visited Seattle, Tacoma, Portland and the exposition, and other places. While in Pullman she enjoyed a visit with Mr. George Severance, of '00, who is now with the Washington State Agricultural College which is located there. Mr. Severance is well thought of as an educator in his state and is giving the best of satisfaction in his work.

After three years as professor of horticulture at M. A. C., U. P. Hedrick resigns to accept the position of horticulturist of the New York experiment station at Geneva. Prof. Hedrick received his master's degree in 1895, and for two years afterward held the position of professor of botany and horticulture in the Oregon Agricultural College. He was the state inspector of orchards and nurseries in Michigan for a time, after which he returned to the west, teaching botany and horticulture in the Utah Agricultural College. In the fall of '99 he accepted an assistant professorship at M. A. C., and in 1902 was made head of his department. We are sure that Prof. Hedrick's many friends at M. A. C. and elsewhere will join us in wishing for him continued success.

with '03.

M. A. Caine, who graduated from the School of Mines last June, has recently gone to Isabella, Tenn., to accept the position of assistant engineer in the Mines. His first work will consist of making a map of the mine.

"J. H. Kimball, with '94 or '95, who has just completed ten years of service in the Weather Bureau, has been transferred to the seed and plant introduction service of the U. S. Department of Agriculture to make a special study of climatology in relation to plant growth. His studies will be made in the department laboratories in Washington."

"Lyman Carrier, '02, has been appointed to a position in the U. S. Department of Agriculture and has begun a special study of silos, silage crops and ensilage in Michigan, Wisconsin, Minnesota and adjacent states."

"Allan Wheeler Crosby is the name of an M. A. C. grandson who arrived July 15 at the home of Dick and Lillian Wheeler Crosby, '93. Both grandparents doing well.

The machine shop has been much inconvenienced by the want of a sufficient number of lockers in which to keep students' tools. During the summer such a number have been added as to provide each student with one, which will avoid the confusion that has arisen in having two students to one locker. This will be greatly appreciated by the students. The wood work on the lockers was done in the wood shop, while the decorating is the work of Mr. Crawford

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May look alike to you, but there is a very great difference in the quality we handle and that sold by some other markets. We handle none but the very best. Like the pudding, the proof of good meats is in the eating. A trial will convince you that you ought to trade with us.

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BOTH PHONES. Careful attention given to phone orders.

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

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J. E. STOPPER, D. D. S. Office 105 Washington Ave. S. Citizens' Phone 1049. Former M. A. C. student.

N. H. MINER, D. D. S. Office 211 12 Hollister Building, Lansing, Mich. Citizens' phone 673.

R. W. MORSE, D. D. S. Hollister Block, Room 817. Citizens' Phone 31. Bell Phone 306.

D. E. PARMELEE, Dentist, 117 1/2 Washington Ave. N., Lansing, Michigan. Citizens' Phone, office 573, residence, 1430.

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Mr. L. W. Sawtelle, for three years an instructor in English at this college, has been elected to the position of professor of English at his alma mater, McMinville College, Oregon. Mr. Sawtelle has been a faithful, conscientious worker and his college friends wish him success in his field of labor in the West.

ELECTRICAL SUPPLIES.

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J. W. HAGADORN, M. D.—Office hours, 11 to 12 A. M., 2 to 4 and 7 to 9 P. M. Office at 119 Washington Avenue S.; home 210 Capital Ave.

DR. H. W. LANDON. Office and residence, M. A. C. Office hours from 1 to 5:30 a. m., and 12:30 to 2, and 5:30 to 8 p. m. Sunday office hours 4 to 8 and 7 to 9 p. m. New phone 1500.

DR. OSCAR H. BRUEGEL. Hours 9 to 11 A. M.; 2 to 4 and 7 to 9 p. m. Agricultural College, Mich. Citizens' phone 1001.

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

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