

# The M. A. C. RECORD.

MICHIGAN AGRICULTURAL COLLEGE.

VOL. 18.

EAST LANSING, MICHIGAN, TUESDAY, OCTOBER 1, 1912.

No. 2

## FARM MANAGEMENT WORK IN MICHIGAN.

Dr. Eben Mumford Chosen Head of  
New Department.

Dr. Eben Mumford, of Lombard College, Galesburg, Ill., has been chosen as head of the new department of farm management by the college, and the department of agriculture at Washington, and will have charge of this important work in Michigan. He will have an office in the Agricultural building, and will be ranked as a regular college professor.

This work in farm management will be carried on in cooperation with city boards of commerce, county boards of supervisors and other organizations which are able to bear part of the financial burden, and which are interested in agricultural development. Three or four men have already been selected, and are doing work in different parts of the state. Dr. Mumford will spend one month in Washington, getting in touch with this work. He will then take up his headquarters at the college and complete the organization of the work in Michigan as rapidly as possible. It is expected that eight or ten men will be installed in this work in the near future. The college is greatly interested in this feature of extension work, and will aid in every possible way.

Dr. Mumford was brought up on a farm, and at the present time owns and operates a farm in western Michigan. He is, however, one of the best trained men in rural economics in the country. He received his Ph. D. for work done in economics, and for the past few years has been making a thorough study of the social and economic conditions of the rural districts. He was called to the position in Michigan from the chair of economics in Lombard College. The college congratulates itself upon being able to find a man with such high qualifications for this important position.

## MINNESOTA ALUMNI.

On Saturday, June 29, the M. A. C. people of the Twin Cities met at the Minnesota Agricultural College for a picnic. Miss Bessie Bemis, of the domestic science department, planned the feed, and it was a success. Those present were: Mrs. C. F. Herrmann and two children; Mr. and Mrs. McElroy and three children; Prof. and Mrs. H. R. Smith; Mr. and Mrs. Kinsey; Mr. and Mrs. Kohler; Mr. and Mrs. W. T. Langley; Miss Bessie Bemis and M. J. Dorsey.

The college carryall took the party for a drive about the farm, Mr. Dorsey acting as guide. Prof. Smith gave an exhibition of his riding horses, and, taken in all, it was a pleasant day spent.

'09.

D. L. Boyd is with the Bernard Glockler Co., of Pittsburgh, Pa.



TAKING MEASUREMENTS.

## THE MICHIGAN STATE FORESTER.

The summer camp edition of the *Forester*, edited by the class of 1914, is issued for the purpose of giving the students' viewpoint of the course of study, forms of recreation, etc., and also to form a closer relationship between the members of the class and the undergraduates and alumni.

The *Forester* is a neat booklet of some 24 pages, including 14 excellent half tones, one of which is shown above. A history of the summer term is given, together with an outline of the work undertaken during the past summer. A unique feature of the book is the camp diary, or Log Book. Each day's events were recorded by the student responsible for that day's entry, and the *Forester* is largely the compilation of these entries.

The work carried on was much the same as that of 1911. The subjects were as follows:

Field Methods—Instructor Gilson.

Surveying—Prof. Wendt.

Forest Types—Prof. Sanford.

Entomology—Prof. Pettit and Dr. Shafer.

Forest Mensuration—Prof. Baker.

This year the camp was on the holdings of the Boyne City Lumber Co., in Charlevoix Co., the usual camp equipment being available. In addition to the individual tents, there was one used for general assembly, one as a reading room, and one as a lecture room. The boys kept logger's hours, and ate at the same table with the workmen. The recreation consisted of rifle practice, base ball and swimming, and in the evening a huge bonfire was made, around which the group gathered to recount the days' events. The boys are to be congratulated upon this year's publication.

'11.

Myron Cogsdill, engineer, for sometime with a lumber company in southern Brazil, has returned to the States, on account of Mrs. Cogsdill's poor health. He is now located at Greencastle, Ind., where he is teaching manual training in the public schools.

## THE BOYS OF 1861.

Capt. George W. Haigh, of Mankato, Minnesota, who entered the first class at M. A. C. in 1858, writes to his brother, Henry A. Haigh (1874), the following letter about the nine students of M. A. C. who enlisted in the United States Volunteer Army in August, 1861:

"\* \* \* Nine students of the college joined the army 51 years ago this month.

"They enlisted in a company of engineers which was being organized under authority from Gen. John C. Fremont by Capt. E. B. Howland at Battle Creek.

"The exodus of nine young men from the little band of students then attending M. A. C. caused a great commotion, and broke up the graduating class that year. But the action was regarded as patriotic and entirely proper, and we of the nine, filled with enthusiasm and patriotic fervor, as all were then, no doubt felt that we were young heroes.

"We thought, moreover, that we had an opportunity of entering the army of the Union under most favorable auspices, and in a capacity in which we could put into practical use some of the knowledge which we had gained at M. A. C.

"Capt. Howland was a personal friend of Gen. Fremont, and in some respects quite similar to him in character, being an enthusiastic idealist, full of visionary and advanced ideas, not all of which were very practical. It had been conceived that a company of civil engineers to be used for signal purposes and for laying out and supervising the construction of roads, bridges, fortifications, etc., would be a useful adjunct to Fremont's army. The latter obtained general authority from the War Department to recruit such a company, and this authority was delegated to Capt. Howland, who sought to secure young men from colleges and technical schools to fill his ranks.

"He was a highly educated man, a good talker, a great enthusiast, and far ahead of his times in his profession—that of civil engineering.

"Supplies of many kinds, some

(Continued on page 2.)

## ALUMNI

'87.

E. W. Redman is the popular county drain commissioner of Gratiot Co., with home at Ithaca.

'00.

L. L. Appleyard, formerly of Lansing, is now with the American Steam Truck Co., at Saginaw, Mich.

'02.

H. L. Brunger is Supt. of the Construction Dept. of the Rumely Co., of LaPorte, Ind.

A son, Charles David, was born to Mr. and Mrs. Frank G. Carpenter, of Calgary, Alberta, Can., on Sept. 6. Mr. Carpenter graduated in '02, and Mrs. Carpenter (Chloe Goodrich), a former Lansing girl, was also with the same class.

'03.

Cecil Phillips and wife (Hettie B. Wright) are enjoying life at Klamath Indian Agency, Oregon. They are on a claim some five miles from a railway station, and are getting to be expert farmers."

'06.

Alida Alexander, of Devil's Lake for several years science teacher in the Niles public schools, will spend the coming year in advanced study.

'09.

L. V. Belknap is now with the Kansas City Terminal Ry. Co., of Kansas City, Mo. His residence is 900 E. 24th St.

'10.

E. E. Kurtz is instrument man with the Commonwealth Power Co., of Grand Rapids.

'12.

L. R. Binding has accepted a position with Prof. Pettit, of the soils department, University of Illinois. The head chemist in that department is E. Van Alstine, '07.

George F. Bateson, who has been with the Solvay Process Co. during the past summer, has gone to the Canadian Northwest, where he will be engaged in engineering work for the Transcontinental Ry. Co.

We quote the following from a letter written by D. F. Fisher, of the Bureau of Plant Industry, at Washington:

"My work in Delaware is nearly completed. I go back in a week or so, and get the results on my York Imperials as soon as picking begins. They had a fine crop of all kinds of tree fruits there this summer. The dry weather early in the season ruined the strawberry crop, however. As the time for opening draws near, it seems as though I ought to be back with the bunch again, and it is with a pang of regret that I realize it is all over. I hope the enrollment this year will break the record, and that it may be the best year ever for M. A. C."



# The M. A. C. RECORD

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

B. A. FAUNCE, MANAGING EDITOR

SUBSCRIPTION 50 CENTS PER YEAR

Entered as second-class mail matter at Lansing, Mich.

Address all subscriptions and advertising matter to the M. A. C. RECORD, East Lansing, Mich. Address all contributions to the Managing Editor.

Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.

Business Office with Lawrence & Van Buren Printing Co., 210-212 Grand Ave. No., Lansing, Mich.

TUESDAY, OCTOBER 1, 1912.

## THE BOYS OF 1861.

(Continued from page 1.)

unheard of before, were purchased. We were to be a signal corps or company, and we practiced and drilled a great deal with that end in view. We learned telegraphing and signalling by means of flags (wigwagging), and I remember we made two large movable towers, which could be put up or taken down in a few moments, from the top of which we were to take observation of the army or enemy and give our signals. We also prepared a method for flashing signals by electricity by means of charcoal points.

"Materials for these and other devices were purchased, and we went to the front to join Fremont's army in Missouri in the fall of 1861.

"When the large bills for these supplies, many of them for things unheard of before, reached the War Department, an inspector was sent out to look us up. I presume it was wondered what we were and what we were going to do. The report of this inspector must have been unfavorable. Gen. Fremont was meanwhile getting into some disfavor in Washington, and was soon after removed from command of the Department of Missouri, and the end of it, so far as we were concerned, was that our company of engineers was given the choice of being transferred to a Missouri cavalry regiment or being mustered out of service.

"After some discussion, we chose the latter, the main reason being that we did not care particularly to serve as recruits for a Missouri regiment.

"The nine students of M. A. C. were as follows: Albert F. Allan, Henry D. Benham, Larned V. Beebe, Oscar Clute, Gilbert A. Dickey, Charles E. Hollister, Albert N. Prentiss, Thomas Haigh, and George W. Haigh. Nearly all of them belonged to the class of 1861.

"When a little later, I enlisted in the 24th Michigan Infantry, I found there Gilbert A. Dickey, who was regimental commissary sergeant under Quartermaster Digby V. Bell. Dickey discharged the responsible and trying duties of this position to the great satisfaction of both officers and men. As first sergeant of Co. D, I came in daily contact with him. He was one of the first to gain promotion as a commissioned officer, and became second lieutenant of Co. G. He was killed at Gettysburg on the first day, July 1, 1863, being the first officer of our regiment shot that day. His remains lie buried in the Michigan section of the National Cemetery at Gettysburg.

"Henry D. Benham very soon reenlisted, but I have forgotten in what regiment, and died in the service, I think in 1864.

"L. V. Beebe again entered the service, and performed very valuable services during the latter years of the war at Washington, D. C., in connection with the U. S. Sanitary Commission.

"Our brother, Thomas Haigh, returned to M. A. C., and spent some time there. He left the institution with Dr. George Thurber, who was professor of botany in 1863, and went to New York to study medicine, where he subsequently graduated from the College of Physicians and Surgeons. He again entered the service as assist-

ant surgeon, U. S. A., and was attached to the army of the Potomac. He was in charge of hospitals at White House Landing and City Point, Va.

"I visited him at the latter place, and found him in charge of over a hundred wounded men, and his work was very laborious and responsible. I have sometimes thought that the very onerous duties laid upon him here, and his great faithfulness in performing same, may have contributed to the undermining of his health, and to his untimely taking off before he really reached his prime.

"Both Professors Prentiss and Clute did most valuable work in the advancement of agricultural and science education in this country.

"Chas E. Hollister I did not keep much track of. I understand he lived a useful life.

"But of these nine soldier boys, students of old M. A. C., all are now dead except Allen and myself.

"I would like to tell you something of our soldier life while we were in Fremont's army in 1861. But it was a long time ago. As I remember it, we had a rollicking, happy outing, with light duties and good horses to ride over the beautiful rolling prairies of western Missouri."

GEORGE W. HAIGH, (with '61).

## ENGINEERING EQUIPMENT.

The machine shop has received a valuable addition in the shape of a large horizontal boring, milling, and drilling machine, worth \$1,670. A number of special tools are now being made in the shops for this machine, after which the machine will find great use in the making of jigs, boring of cylinders, machining of large machine parts, etc., which require accurate machining. The "Lucas Precision" machine, as it is known, is very accurately made; on it is possible to machine work to within 1-1000 of an inch to truth.

The increase of machinery in the machine shop during the past few years has necessitated the purchase of another electric motor, which is a duplicate of two others now installed, making possible the temporary substitution of one for another in the case of a breakdown.

The tool room has been moved to the center of the shop, following the best practice in works management; two windows for supplies have been provided instead of one, and it is intended to have a student act as "tool man" during the period, his duty being to assist the regular attendant, Mr. Boice, in issuing and receiving the tools, also to regrind and put into proper condition the tools in current use, and acquaint himself with the various special tools stored in the tool room. A different student will be assigned for this work each period.

The capacity of the stock room was very much increased by the construction of a number of shelves.

A number of wood lathes of a new design were completed during the summer, and have been set up in the pattern shop to replace those that have been worn out.

The cupola room of the foundry, which was burned last year, has been put into first class condition. Dangerous wooden portions of the structure have been replaced by brick or cement, and the floors have been cemented.

## ATHLETICS

### ALMA AT M. A. C. SATURDAY.

Now that every student is a member of the Athletic Association, and because of the *Blanket Tax* recently voted, there should be an unusually large crowd to witness the first football game next Saturday, at 2:30 p. m.

Prof. Macklin has been busy on plans for student admissions during the summer, the result of which is a neat little coupon book good for admission to 30 athletic events, covering the entire year. These will be taken up at the close of the winter and spring terms, and given out at the beginning of the terms following. The coupon book is given out under the following conditions:

1. The book entitles the holder to one admission to every athletic event held under the management of the Athletic Association within the season stated, and the coupons are *not* good if detached.

2. The owner of the ticket is entitled to one reserved seat at every contest where special reservations are provided for.

3. Holders of tickets must be willing to identify themselves at any time when requested to do so, and persons will be called upon to account for the fraudulent use of these coupon books.

4. Books, which have been lost or mislaid, will not be replaced, nor will refund be made.

5. Signatures must be in ink.

6. Erasures or alterations render ticket void.

These, in substance, are the conditions under which the coupon books are issued.

Male students may secure these books by making application to the office of the athletic director after 9 o'clock on Wednesday of this week, and upon presentation of their classification blank showing that they are entitled to same.

An arrangement will be made whereby the women students may secure coupon books at the Women's building Thursday morning.

While considerable new material has shown up, many of the candidates have had little or no experience, and it will take considerable time to get them in shape. Every man is working consistently, however, and all are determined to uphold M. A. C.'s reputation.

The new men who are being tried out are Miller at half and end; De Prato and Cobb as half backs; Chaddock in the line; Adams at center, and Calkins at guard. The old men are playing their usual good game.

Everyone should be on hand Saturday and help the boys in this, the first contest of the season. There is no reason why every student should not be there. The next game will be with Michigan at Ann Arbor.

Mr. Jay Smith has been secured to take Mr. Neal's position as assistant instructor in machine shop. Mr. Smith secured his practical work in the Lansing shops coming to M. A. C. from the Omega Separator Co.

### SUMMARY.

Graduate—	
Home Economics.....	3
Agriculture and Forestry.....	3
Veterinary.....	1
	7
Special—	
Home Economics.....	5
Agriculture and Forestry.....	34
Engineering.....	2
Veterinary.....	1
	42
Preparatory—	
Home Economics.....	16
Agriculture and Forestry.....	63
Engineering.....	40
Veterinary.....	2
	121
Five Year Freshman—	
Home Economics.....	16
Agriculture and Forestry.....	33
Engineering.....	26
	75
Freshman—	
Home Economics.....	92
Agriculture and Forestry.....	163
Engineering.....	114
Veterinary.....	5
	374
Sophomore—	
Home Economics.....	63
Agriculture and Forestry.....	115
Engineering.....	109
Veterinary.....	6
	293
Juniors—	
Home Economics.....	51
Agriculture and Forestry.....	74
Engineering.....	72
Veterinary.....	2
	199
Seniors—	
Home Economics.....	35
Agriculture and Forestry.....	81
Engineering.....	48
Veterinary.....	1
	165
Home Economics.....	281
Agriculture and Forestry.....	565
Engineering.....	411
Veterinary.....	18
	1275



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## ABOUT THE CAMPUS

Born, to Prof. and Mrs. Chase Newman, on Sept. 24, a daughter, Doris Esther.

A line from Mr. and Mrs. J. N. Bidwell gives their residence address as 2115 First Ave., W., Curtis Oaks, Sacramento, Calif.

A reception was held in the parlors of the People's Church Wednesday evening for the new residents of East Lansing, and on Thursday evening for new students.

The Kansas state college paper states that M. R. Bowerman, of the class of '09, has been elected to a position as assistant in mechanical drawing in that institution for the coming year.

Mrs. Harry Andrews, of Ithaca, N. Y., with her baby daughter, Katherine Elizabeth, is visiting at the home of her parents, Prof. and Mrs. H. K. Vedder. Dr. Andrews arrives this week for a few days at M. A. C.

Word comes to us of the death, last week, of Mr. Leonard H. Martin, a student at M. A. C. in 1907-'09, and a member of the Ingham Co. Orchard Co. during that time. Mr. Martin was a member the Adelpic literary society, and this society was represented at the funeral on Sunday last. He was a popular man in college, and was rapidly coming to the front in his home county in the fruit business. A complication of troubles necessitated an operation, and in his weakened condition he was unable to rally from the effects of same.

Mr. Cleland Gilchrist of Poca-hontas, Ill., was the guest of his sister, Dean Gilchrist, in early September.

Mrs. Gertrude Peters Van Horne, Miss Flo Case, and Miss Caroline Ellsworth were college visitors on Sept. 12.

Herman Bowerfind, a former M. A. C. student and prominent Penman, has recently received his appointment as assistant paymaster in the navy.

During the past summer Prof. Polson has been making a series of tests for the Novo Engine Co., of Lansing, and has been acting as advisory engineer for them.

The P. M. Ry. Co. have been remodeling the Cedar River bridge during the summer, and have the work now nearly completed. Two new steel spans have been put in, new piles driven, and new ties and floor laid. It is therefore practically new, and will prove much more efficient, and also safe. The grade has also been raised about three feet.

Prof. Kunze designed a steam engine for auto-truck use for Messrs. Trask and Larrabee, of Williamston. The engine and car are now being built in Detroit. He also collected data and prepared a pamphlet on matters concerning civic improvement. This pamphlet will soon be issued by the Civic Improvement Committee of the Men's Class in Applied Christianity of which he is chairman.

The freshman class met at noon Monday, and are duly organized. The big rush will take place next Saturday, when the usual "stunts" will be pulled off.

Dr. Samuel P. Orth, with the class of '92, has recently been appointed acting professor of politics in Cornell University for the first semester of 1912-13.

Floyd Bell, '05, with his wife and baby daughter, called on college friends during early September. He is still with the Brown Hoisting Machinery Co., of Cleveland, Ohio.

Dean Lyman, while attending the National Association of Veterinarians at Indianapolis, met Dr. N. S. Mayo, '88, now professor of animal husbandry at Blacksburg, Va.

E. E. Sours, with '13, will not return to college this fall, as he has every assurance of becoming the county surveyor of Wexford Co. at the coming fall election, having won out in the primaries.

Dr. Beal has presented to the library a copy of Robert D. Weeks' translation of the New Testament from the Greek, published in 1897 by Funk & Wagnells Co., of New York and London. Prof. Weeks, who died in February, 1898, was professor of English literature, farm economy, and secretary of the college from 1857 to 1862. The work was presented to Dr. Beal by the author's son, and in turn given to the library by the doctor.

'12.

S. L. Anker is assistant engineer with the Detroit & Mackinaw Ry., with headquarters at East Tawas.

E. R. Bender is teaching manual training and physics at Moorhead, Minn.

D. M. Bennett is with the Coast Dept. of the Westinghouse Co., at Chicago, with residence at 1504 La Salle Ave.

H. H. Coplin is supervisor of manual training in the public schools at Janesville, Wis.

E. G. Culver is science teacher in the public schools of Manitowish.

J. A. Miller is in the offices of the U. S. Engineers at Sault Ste. Marie.

G. M. O'Dell is drafting for the Reo Motor Car Co., of Lansing.

Alfred Iddles is assistant superintendent of the Jackson Gas Co., Jackson, Mich.

J. F. Jonas is draftsman for the Oakland Motor Car Co., of Pontiac, with residence at Orchard Lake.

F. H. Kane is checker for the Oakland Motor Car Co. of Pontiac.

R. B. Delvin is with the Au Sable Electric Co., at Jackson, Mich.

C. H. Dickinson is with Carpenter & Anderson, engineers and contractors, of Grand Rapids, Mich.

R. A. Goodell is with A. A. Carpenter & Co., of Chicago, with residence at 115 S. Dearborn St.

S. L. Hall is superintending the construction of water works plant at Stockbridge, Mich.



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### HORT. NEWS.

The first meeting of the Hort. Club will be held in the horticultural laboratory Wednesday evening at 6:30. The senior students will give short accounts of their summer experiences. Practically all of the seniors spent the summer in some horticultural work, and the meeting is sure to be a very interesting one. Several guests are expected. A. H. Hendrickson is the president. All students interested in any phase of horticulture are invited to attend all of these meetings.

Leo B. Scott was married September 10th to Miss Hattie Baxter, of Auburn, Ind. Their home will be in Corona, California, where Mr. Scott is doing plant breeding and plant selection work for the department of agriculture.

'05.

Clarence A. Reed is the author of a very complete bulletin on "The Pecan," issued during the summer by the Department of Agriculture. This is by far the most complete treatise on this now important crop that has been published. Mr. Reed has given his entire time for several years to the study of this crop, and is now recognized as a specialist in that field.

'08.

F. M. Barden, South Haven, had a bumper crop of peaches this year. By many it was considered one of the finest crops in that part of the state, and attracted the attention of fruit growers for many miles. Mr. V. C. Pickford, of the junior class, spent the summer on Mr. Barden's farm.

'12.

Geo. C. Sheffield spent Sunday on the campus. He is employed by the *Detroit News-Tribune*, and his special work is on the illustrated section.

'10.

C. E. Smith is again with the Western Michigan Development Bureau, and his duty is to collect fruit for the forthcoming Apple and Land Show to be held in Grand Rapids the middle of November.

Niels Esbjerg, leader of the Horticultural Experiment Station, of Denmark, visited the horticultural department Saturday morning.

'95.

Charles H. Alvord writes from Portland, Tex., where he is superintendent of farms for the "Taft Ranch." The company has about 100,000 acres of land, and numerous industrial and commercial enterprises. This season about 9,000 acres were cultivated, and this will be increased next year to 14,000. Mr. Alvord was formerly professor of agriculture and superintendent of the farm at the Texas A. and M. college, having resigned his position in September, 1911.

### FROM THE FRONT.

Fort Terry, New York,  
September 2, 1912.

My Dear Editor:

I write again at this time to renew my subscription to the *RECORD*, in order that I may keep in touch with the old college, and hear at times from the alumni who write back to M. A. C. The summer, since commencement, has passed very rapidly with me here. I arrived in time to attend the Yale-Harvard boat races, and since then there has been scarcely time to leave the Island. During the first three weeks of July the 100th Company (Mine) Coast Artillery Corps, with which I am assigned, worked with the mine planter, practicing planting the largest mines in 120 feet of water, and with a tidal current that is only exceeded at one place along the Atlantic coast, and that at Hell Gate. It was slow work, and at times exciting, as in the instance where, in attempting to lower a junction box from a yawl boat, the tide was so strong that the boat capsized and nine men were thrown into the water, and we lost all our cable splicing equipment. Another time it was necessary to drop the end of a cable over-board in order to prevent the boat from being swamped in a choppy sea that came up suddenly against the tide. During July, and the first two weeks in August, the gun and motor companies from Fort Hamilton and Fort Totten, near New York City, and from Fort Adams, near Newport, R. I., were here for target practice.

During the past two weeks the six companies at this post have been in camp, and we have nearly finished our target practice. In the next two weeks, ten mine companies from New York Harbor and Newport, and six mine companies from this district will have practice at firing 3-inch guns at night. After that we will have infantry exercises and small arms target practice, all of which will keep us busy at least until November.

There are very few M. A. C. people in this particular section of the country. I think the nearest is Mr. Boyd, at Worcester, Mass. I hope to be able to return for the triennial alumni reunion next summer.

With continued best wishes for friends at M. A. C., I remain,

Yours very truly,

P. R. LYON, '09.

'91.

Marian Weed Neff writes as follows from North Creek, Ohio: "I always enjoy the visits of the *RECORD*, and read it the very first thing, especially the alumni news. Last June Uncle Sam appointed me post-mistress of this town, and I enjoy the work in connection with the office. I wish for M. A. C. and the *RECORD* the best of all years."

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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.

#### BARBERS.

COLLEGE BARBER SHOP.—In Bath House, Andy is still with M. A. C. A handy parlor, and good work done.

NEW BARBER SHOP, in Chase Building, under Bauer's Drug and Grocery Store. If you wish a stylish hair cut give us a call. E. E. Reynolds, Prop.

#### BOOKS AND STATIONERY.

A. M. EMERY, 116 Wash. Ave. N. Books, Fine Stationery, Engraved Calling Cards, Fountain Pens, Pictures, Frames. Fine Framing a Specialty. Up-to-date styles. Cut Glass—cut in Lansing.

#### BOOK BINDERS.

BLUDEAU & SIEBERT.—Bookbinders, account book makers, paper ruling, library and fine art bindings, file boxes, map mountings, albums, pocket books, etc. Citizens' phone No. 480. In City National Bank Building. Geo. G. Bludeau and Henry H. Siebert.

#### CLOTHING.

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

#### CROCKERY AND GLASSWARE.

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

#### DENTISTS.

N. H. MOORE, D. D. S. Office 411-413 Hollister Building, Lansing, Mich. Bell phone 380-J; Citizens Automatic 3904.

D. E. PARMELEE, Dentist, 117½ Washington Ave. S., Lansing, Michigan. Automatic phone, office 3402; residence, 3403.

J. E. STOFFER, D. D. S. Office 208-5 City National Bank Bldg. Automatic phone 561; Bell phone 61. Former M. A. C. student.

#### DRUGGISTS.

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

COLLEGE DRUG AND GROCERY CO.—Express office. Agency Star Laundry.

#### DRY GOODS.

J. W. KNAPP CO.—Dry Goods and Furnishings. 220-224 Washington Ave. So.

MILLS DRY GOODS CO.—Dry Goods Suits, Coats, Waists, Art Needle Work, Etc. 108-110 Washington Ave. 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. & B. M. BUCK.—Furniture. Corner Washington Ave. and Ionia Street. See ad.

#### HARDWARE, STOVES & TINWARE.

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

#### 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. 220½ Washington Ave. S.

#### MUSICAL INSTRUMENTS.

GRINNELL BROS.—"Michigan's Leading Music House." High Grade Pianos and Player Pianos. Easy Terms. Pianos to Rent—Year's Rental out on Purchase. Everything in the Realm of Music. LANSING STORE: 219 N. Washington Ave.

#### PHYSICIANS.

DR. OSCAR H. BRUEGEL.—Cor. Mich. Ave. and Grand River Ave., East Lansing. 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. Citizens phone 1344; Bell 625.

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.

EYE, EAR, NOSE AND THROAT.—Dr. J. S. Owen, 115 W. Allegan St., Lansing. Citizens phone 473.

#### PRINTING.

LAWRENCE & VAN BUREN PRINTING CO.—210-212 Grand Avenue North. Fine Printing. Both Phones.

ALLEN PRINTING CO.—Corner Capitol avenue and Ionia street. Printing. Office Supplies. Engraved Cards, Programs, Macey Goods. Bell phone 1094. Automatic phone 4006. Remember our new location.

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

#### UNIFORMS.

THE M. C. LILLEY & CO., Columbus, Ohio.—Manufacturers of Military and Society Goods.