

The M. A. C. Record.

VOL. 5.

LANSING, MICHIGAN, TUESDAY, JANUARY 2, 1900.

No. 16

New Men on Our Teaching Force.

We are fortunate in securing for our mechanical department a man of thorough technical training and broad practical experience. Alexander W. Moseley, S. B., graduated in 1891 from the Massachusetts Institute of Technology, spent four years in practical work with some of the leading manufacturing firms of this country, returned to his alma mater and there remained through four successful years as assistant and instructor in mechanical engineering, then entered the employ of William Sellers & Co., of Philadelphia, from whom he comes to us. Mr. Moseley is a native of Chicago and comes to his work in the mechanical department with the best of recommendations from those with whom he has been associated.

The vacancy in the department of English has been filled by the appointment of E. Sylvester King of Chicago. Mr. King is a graduate of the Cumnock School of Oratory in Northwestern University and has been engaged for some time in private teaching in Chicago.

Physical Training Notes.

All students who desire systematic physical training in the armory, together with those who intend to practice for any athletic work for local or intercollegiate field day, will meet in the chapel on Wednesday, at 12:20. Bring a pencil with you.

The new gymnastic apparatus has arrived and is now ready for use, by those only who wish to take regular exercise in one of the classes.

Quite a number of inquiries have come in asking if a class will be organized for those who wish to take regular exercise only. Why certainly, that is one of the prime objects of this department. We wish to benefit those who need it most, who do not enter actively into athletics. You will feel better, study better, and be better if you exercise systematically. Therefore you will do a wise thing by entering either one of the athletic or one of the systematic training classes. Come to the meeting Wednesday anyway.

Candidates for the baseball team will meet in the chapel on Wednesday evening at 6:20.

To keep in as good health as possible is an obligation we owe to our own success in life. C. O. B.

A Quiet Vacation.

The vacation just ended was remarkable principally for the almost entire lack of anything exciting. Christmas came and went without the occurrence of any social events except the arrival and departure of a few guests and the enjoyment of quiet family dinners. During the whole vacation there were but three notable gatherings: The M. A. C. reunion mentioned in another column; a pleasant little entertainment given by Mrs. Landon to the ladies of Howard Terrace and the students that remained at the College; and a card party in the new home of Prof. and Mrs. J. D. Towar.

Of work, however, there was a plenty. Students were cutting wood in the College woods; making new machines and repairing old in the mechanical laboratory; doing office work in the agricultural laboratory, the president's office and the secretary's office; and performing other tasks about the barns, dormitories, laboratories and forcing houses. Most of the faculty, too, were busy, as were also the workmen on the new women's building, which has grown quite perceptibly during the two weeks of pleasant weather.

Reunion of the M. A. C. Association.

A company of about 55 persons enjoyed the fifth annual reunion of the M. A. C. Association in the parlors of the Presbyterian church last Wednesday evening. The guests began arriving at five o'clock and a half hour later sat down to a three-course dinner served by the ladies of the church. At the close of the repast President J. D. Towar called upon Dr. Beal, who spoke briefly of the "Boys That Did Not Finish." Next President Snyder addressed to the visiting alumni a few words of welcome and gave a review of the year's advancement at the College. Prof. Smith followed with "Innocents Abroad," a brief mention of some of the graduates seen by himself and Dr. Kedzie on their trip to the Pacific coast last summer. Supt. C. L. Bemis '74 in a short talk on the "Relation of the College to Teaching," emphasized the need of the College for a higher standard of admission, arguing that the farmer is, or should be, a professional man and that his training should reach as high a professional standard as that of the lawyer, the doctor, the preacher. The last speaker, Dr. Kedzie, had a few good words to say for the "M. A. C. Graduate at the Front"—his position as a leader among men after leaving College.

When it came to the business session the suggestion that since the next State Teachers' Association will be held in Grand Rapids it would be best to elect officers located in or near Grand Rapids, was followed. W. V. Sage '84, superintendent of the Mt. Pleasant schools, was elected president, and Hon. Charles W. Garfield '70, of Grand Rapids, secretary.

The closing features of the reunion—the college songs, the visits, in groups of two, three or four, between classmates or between members of the faculty and old students—were features fully as enjoyable as anything that happened earlier.

Following is, we think, a complete list of the graduates and former students that attended: Daniel Strange '67, Lansing; James Satterlee '69, Greenville; C. L. Bemis '74, Ionia; F. S. Kedzie '77, M. A. C.; W. S. Holdsworth '78, M. A. C.; Charles McKenny '81, Mt. Pleasant; A. C. Bird '83, M. A. C.; O. C. Howe '83, Lansing; W. V. Sage '84, Mt. Pleasant; J. D. Towar '85, M. A. C.; Jason E. Hammond '86, Lansing; W. O. Hedrick '91, M. A. C.; K. L.

Butterfield '91, Lansing; A. F. Gordon '91, Ann Arbor; B. W. Peet '92, Ypsilanti; L. H. Baker '93, Albion; Miss Daisy Champion '93, Lansing; U. P. Hedrick '93, M. A. C.; D. J. Crosby '93, M. A. C.; C. J. Barnum '94, Edenville; R. S. Campbell '94, Port Huron; R. S. C. Fisher '95, Hart; W. C. Stebbins '95, Coloma; E. E. Gallup with '96, Hanover; C. A. Graves with '97, Addison; Miss Mamie Baker '99, Lansing; W. H. Marsh with '99, Baroda; Mrs. W. O. Hedrick with '00, M. A. C.; William Wallace, special summer student.

In the Machine Shops.

During the past season several new machines and attachments for old machines were begun. An attachment for the planer for cutting key-ways, by which work of that sort is greatly facilitated, has been finished; also an attachment for the same machine that makes it possible to plane castings too large to pass between the uprights of the planer. Among the machines in process of construction, upon which some work was done during vacation, are a new milling machine and a new shaper. Several of the castings for the milling machine have been made and some of them have been dressed. The shaper is as yet in the design and the old shaper is being used as a model.

The floor of the machine shop is now so crowded with machinery that more room must be provided soon. It is probable that the first thing to be done in providing for more room will be to move the wood lathes to the galleries above the machine shop and extend the latter through to the south end of the laboratory. Even this must be but a temporary arrangement if the enrollment in the mechanical engineering course increases as rapidly in the next year or two as it has during the last two years.

Four Successful Years.

From the time of its inception three years ago, the M. A. C. Co-operative Book-buying Association has been a success, and each year that it has been in operation has been attended with an increase in the amount of business done and in the amount saved to its members. The last annual report of Manager Price, made at the close of the fall term, shows that during the first year the business of the association amounted to \$3,063.24; the second year, \$5,027.16; the third year, \$5,334.67—a total of \$13,425.07. The business of the fall term, 1899, amounted to \$3,000.58, and there was stock on hand valued at \$1,147.49.

It is impossible to say how much has been saved to members of the association, but a conservative estimate would be not far from \$2,500. All goods have been purchased at wholesale prices and sold at an average advance of 7.3 cents on a dollar. During last fall term business was done on a 6 per cent. basis and the association cleared about \$160, which will lessen the cost of books during the ensuing term.

Now, with such an excellent showing, there is one thing to be regretted—that one-fourth of the students in College have not availed themselves of the benefits of the Association. Without counting short-course students, we find that about 900 young men and young women have been enrolled on the College books, but only 708 of these have become members of the book-buying association. Of course, anybody can buy supplies of the association at list price, but only members get the reduced rates. As it costs but 75c to join the association, the average student saves the price of membership in one term; therefore it would seem to be good business policy to purchase a membership ticket at the beginning of the first year in College.

Farmers' Institutes for January and February.

Following is the list of farmers' institutes for January and February, as given out by Supt. C. D. Smith last week:

Two-day institutes—Bangor, Jan. 8-9; Battle Creek, Jan. 9-10; Cassopolis, Jan. 10-11; Three Rivers, Jan. 11-12; Tecumseh, Jan. 12-13; Flanders, Jan. 15-16; Edmore, Jan. 15-16; Ithaca, Jan. 16-17; Jonesville, Jan. 16-17; Ionia, Jan. 17-18; Harrisville, Jan. 17-18; London, Jan. 17-18; Pontiac, Jan. 18-19; Mt. Pleasant, Jan. 18-19; Maple Ridge, Jan. 18-19; De Witt, Jan. 19-20; Tawas City, Jan. 19-20; Belleville, Jan. 19-20; Coopersville, Jan. 22-23; Yale, Jan. 23-24; Grand Rapids, Jan. 23-24; Bad Axe, Jan. 23-24; Muskegon, Jan. 24-25; Brown City, Jan. 24-25; Auburn, Jan. 25-26; Gladwin, Jan. 25-26; Caro, Jan. 26-27; Hart, Jan. 26-27; Midland, Jan. 26-27; Owosso, Jan. 29-30; Benton Harbor, Jan. 30-31; Charlotte, Jan. 30-31; Lapeer, Jan. 30-31; Hastings, Jan. 31-Feb. 1; Fenton, Jan. 31-Feb. 1; Hopkins Station, Feb. 1-2; Leslie, Feb. 1-2; Freeland, Feb. 1-2; Howell, Feb. 2-3; Traverse City, Feb. 7-8; Warren, Feb. 7-8; Coldwater, Feb. 13-14; Concord, Feb. 20-21.

One-day institutes—Covert, Jan. 3; Bloomingdale, Jan. 4; Ortonville, Jan. 9; Davisburg, Jan. 10; Memphis, Jan. 10; Wixom, Jan. 11; Columbus, Jan. 11; Royal Oak, Jan. 12; Smith's Creek, Jan. 12; Fowlerville, Jan. 23; Bainbridge Center, Jan. 23; Pinckney, Jan. 24; Naomi, Jan. 24; Brighton, Jan. 25; Pearl Grange Hall, Jan. 25; Berrien Springs, Jan. 26.

The annual round-up institute will be held in Ann Arbor from Feb. 27 to March 2.

The New Calendar.

The College calendar for 1900 is being mailed from the president's office. Forty College views are arranged in twelve artistic groups in such a manner as to show one group with each month. When folded the calendar is square but when hung upon the wall its height is twice its width—calendar below and group of views above. It makes a very neat little souvenir.

THE M. A. C. RECORD.

PUBLISHED WEEKLY BY THE

MICHIGAN AGRICULTURAL COLLEGE.

EDITED BY THE FACULTY,

ASSISTED BY THE STUDENTS.

SUBSCRIPTIONS SHOULD BE SENT TO THE SECRETARY, AGRICULTURAL COLLEGE, MICH.

SUBSCRIPTION, - - 50 CENTS PER YEAR.

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

Business Office with LAWRENCE & VAN BUREN Printing Co., 122 Ottawa Street East, Lansing, Mich.

Entered as second-class matter at Lansing, Mich.

For various reasons THE M. A. C. RECORD is occasionally sent to those who have not subscribed for the paper. Such persons need have no hesitation about taking the paper from the postoffice, for no charge will be made for it. The only way, however, to secure THE RECORD regularly is to subscribe.

Official Directory.

Y. M. C. A.—Regular meetings Sunday evenings at 7:00 and Thursday evenings at 6:30. C. H. Parker, President. D. S. Bullock, Cor. Secretary.

Y. W. C. A.—Weekly meetings for all ladies on the campus, Thursday evenings at 6:20, in Abbot Hall. Sunday meetings with the Y. M. C. A. Mable Brigham, President; Elizabeth Johns, Cor. Secretary.

KING'S DAUGHTERS—Meet alternate Wednesdays. Mrs. C. L. Weil, Leader. Mrs. M. L. Dean, Secretary.

NATURAL HISTORY SOCIETY—Meets alternate Wednesday evenings at 6:30 P. M., in the Zoological Lecture Room. B. Barlows, President. W. K. Wonders, Secretary.

BOTANICAL CLUB—Meets Tuesday evenings at 6:30 in the Botanical Laboratory. G. M. Bradford, President. W. S. Palmer, Secretary.

ADELPHIC SOCIETY—Meetings every Saturday evening at 7:00, Class room A., College Hall. D. Linkletter, President. A. M. Gibson, Secretary.

COLUMBIAN LITERARY SOCIETY—Meets every Saturday evening at 7:00. Fourth floor, Williams Hall. W. T. Parks, President. C. W. Kaylor, Secretary.

ECLECTIC SOCIETY—Meets every Saturday evening at 7:00. Fourth Floor, Williams Hall. L. L. Appleyard, President. F. Carpenter, Secretary.

FERONIAN SOCIETY—Meets every Thursday afternoon at 4:00. West Ward, Wells Hall. Harriette Robson, President. Fleeta Paddock, Secretary.

HESPERIAN SOCIETY—Meets every Saturday evening at 7:00. West Ward, Wells Hall. J. R. Thompson, President. F. W. Owen, Secretary.

OLYMPIC SOCIETY—Meets every Saturday evening at 7:00. Fourth Floor, Williams Hall. J. G. Aldrich, President. S. Marsh, Secretary.

PHI DELTA THETA FRATERNITY—Meets every Friday evening at 7:30. East Ward, Wells Hall. H. B. Clark, President. A. Trebilcock, Secretary.

THEMIAN SOCIETY—Meets every Friday afternoon from 5 to 6 Phi Delta Theta Rooms, East Ward, Wells Hall. Harriet O'Connor, President. Kate Nichols, Secretary.

UNION LITERARY SOCIETY—Meets every Saturday evening at 7:00. U. L. S. Hall. Paul Thayer, President. T. H. Spindlo, Secretary.

TAU BETA PI FRATERNITY—Meets on alternate Thursday evenings, Tower Room, Mechanical Laboratory. William Ball, President. C. H. Bale, Secretary.

CLUB BOARDING ASSOCIATION—H. L. Chamberlain, President. Geo. Severance, Secretary.

M. A. C. ATHLETIC ASSOCIATION—W. T. Parks, President. H. P. Weydemeyer, Secretary.

Grooming the Horse.

There are few things in stable economy which are of more interest and importance than grooming. Although many of us are inclined to regard the pulling of the "ribbons" over the back of the roadster, or our various efforts in the pigskin, as an art, yet may we not add that grooming a horse is a high art; yes, even a science when considered from the proper standpoint? This leads us at once into the practical side of the question, for science demands, according to our interpretation, the truth, the whole truth and nothing but the truth.

Proceeding then, let it be said that the primary object of grooming is to cleanse the skin and gloss the coat, and with the average groom the question rests there, he being satisfied to view his shiny nag with satisfaction and pride just as the

domestic views his or her polished mahogany. But if we follow the question we will soon find the influence of proper grooming extending far beyond the bounds of that which may be called artistic sanitation, because if properly done we apply, unconsciously, perhaps, the massage line of treatment, a medicament which is receiving very great consideration from deep thinkers and healers of human ills. At this point let us dwell for a few moments upon the general anatomy and functions of the skin.

The skin, or common integument, as it is sometimes called, is composed of three layers. Some regard it as only having two, but this is a point over which we need not disturb ourselves. The deepest of the three layers is sometimes called the true skin, or quick, and is the part the tanner converts into leather. It is a very complex organization, containing among other things, numerous sebaceous glands, which are of vast importance to us in considering the artistic side of our question. It also contains sudoriferous, or sweat glands, as they are sometimes called. Besides this it contains nerves, blood vessels and so on.

The middle layer is the one which gives the complexion to the animal, and is of a mucilagenous nature, varying in hue according to circumstances. Enveloping the outside of the body we find the third layer of skin, which is known as the cuticle or scarf skin, resembling in some respects the scales of the fish, and when shed profusely or otherwise, is familiarly known as dandruff. The function of the skin is not only to remove certain noxious materials from the body, which, if retained, would cause disease, and which, if only partially removed, will cause the animal to feel uncomfortable and not fully up to its work—a little off as it were.

Besides this it acts as a safety valve for the body in regulating the temperature of the parts beneath. Indeed, it plays a most important role in many acts relating to the well-being of the animal, but to follow the full discussion of them is far beyond the limits of this article. We trust, however, that enough has been said to impress us with the importance of keeping the skin in a proper condition if we wish to maintain the health and vigor of the animal; and this may be largely done by thorough grooming, accomplished through the art of that subject. In applying it with our various aids we press upon the skin, and in so doing we squeeze the little sebaceous glands already alluded to, which pour out a kind of pomade upon the roots of the hair until it reaches that part familiarly known as the coat, and there imparts a beautiful gloss which is much coveted by all admirers of a well-kept horse.

While pressing upon the skin we not only oil its surface but we shake the various muscles beneath, and by so doing we produce massage, which stimulates the reparative change continually going on in these organs, and the result, within certain limits, is healthy muscular tissue. Indeed, this very pressure takes the place to a limited extent of exercise. We see this well illustrated in the training of the athletic horse, be he runner, trotter or steeplechaser.

Not only does the pressure upon the skin promote a salutary effect upon the muscular tissue, but it has its influence upon the blood

vessels and absorbents, and stimulates them to perform their various functions with more certainty than if left dormant or undisturbed. The pressure upon the skin applied with moderate friction also opens up the pores, and thus, what may be aptly compared to breathing, progresses with more certainty than when these pores are filled with particles of foreign matter, which prevent their action to a certain extent.

The various aids which are used in grooming a horse are, first, the curry-comb. This may be used in order to facilitate the process and expedite the efforts of the operator in a manner which will be humane, economical and beneficial from the physiological standpoint; and while many object to the use of it, and well they may, for in rough and careless hands it will inflict pain varying in intensity according to the peculiarities of the individual using it, and sometimes, especially in nervous horses, inflicts punishment that is worthy only of the barbarian; yet when properly used, it may be unnecessary to say, it becomes a valuable aid in this art. It not only loosens the partially exfoliated and used up dandruff, which is of no further use and requires to be removed, but it removes inspissated sweat from the hair, and with it debris of various descriptions.

Again, if it is passed over the body with a light hand it arouses the nerves and blood vessels into healthy action. The discussion as to the use and abuse of the various kinds of curry combs might be prolonged at considerable length. Suffice it to say, that if not properly used, it is better not used at all.

Then comes the dandruff brush, which may or may not be used after the curry-comb. If the dandruff brush is used and its bristles are stiff, composed, for instance, of whalebone, it should be used with the same precautions as the curry-comb, and if not properly used is better not used at all. It is a very convenient article to start the grooming of the hocks and other parts of the legs, the hair of which is often gummed with various substances according to the environment of the animal.

The body brush, almost indispensable in grooming, should be used in a more or less vigorous manner, and during its use pressure should be resorted to in order that the various tissues, glands, blood vessels and nerves may be massaged and the coat cleaned at the same time.

And now come the finishing touches of the work, which are usually performed with a linen cloth, chamois skin or shredded pea straw. It matters little what this aid is composed of, providing it is reasonably smooth on its surface, as the object which it accomplishes when properly applied is to distribute the pomade of the glands well over the surface of the coat. In addition to this, if the previous aids in this art have been properly used, the pomade glands, if I may so call them, will be excited into action and the pressure now resorted to by the rubber will bring out the secretion in greater abundance than when the operation first began, consequently we find in tractable glands the glossy appearance after a few strokes.

The effect upon the skin of these pomade glands will often be nicely illustrated in the imperfectly groomed horse, where we notice glossy hair beneath the harness, showing that the pomade has been

properly distributed to those hairs over which pressure has been applied, presenting a marked contrast to the dry unruly coat beyond.

In grooming the legs of the animal the same general rules may be applied as for the surface of the body, but at times we need to apply water in order to remove sticky mud or other foreign substance more likely to lodge upon them than other parts. In washing the legs we should be particular to dry them thoroughly afterward. In the summer time the sweat sometimes runs down the legs and lodges in the hollow of the heel, producing an aggravating disease, familiar to all as scratches. The chances of this disease from this cause will be reduced to the minimum if the legs are properly groomed.

After washing the legs or other parts of the animal it will sometimes be noticed that the skin is refractory as far as the glossy appearance of it is concerned. This is due to the fact that we sometimes apply our washing fluids with perhaps too much vigor, literally washing away the pomade which remained behind after the previous grooming, and before we can hope to renew the gloss we must work with more vigor than is necessary under ordinary circumstances. I have known of a horse's coat to remain in a dry unrepresentable condition for a day or two when the shampoo had been applied beyond judicious limits, and the after massage had not been applied with sufficient energy.—Dr. E. A. A. GRANGE, in *The Rider and Driver*.

At the College.

A Happy New Year to you!

E. S. Good spent six days of vacation at his home near Flint.

Representatives Oberdorfer and Rulison were vacation callers.

F. T. Williams went home with S. F. Edwards to spend vacation.

Seven below zero Saturday morning; six below Monday morning.

Will Gregory of Hillsdale visited Prof. and Mrs. Mumford last week.

Secretary Bird was in Grand Rapids on College business Saturday.

B. H. Takvourian is confined to the hospital with an attack of erysipelas.

Miss Maude Metz of Adrian spent last week with her mother at the College.

P. M. Lyman visited his Bancroft home during three of the vacation days.

MDCCLXXIX + I = MCM. Solve for beginning of the twentieth century.

Miss Jessie McDonald of Saginaw spent Christmas with Mr. and Mrs. Gunson.

J. C. Bartrolf of Battle Creek made a business trip to the College last Thursday.

Hardwood floors were laid in the east ward corridors of Wells Hall during vacation.

A new furnace adds to the comfort of students in the east end of Howard Terrace.

William Treadwell and William Krieger will be a few days late on account of measles.

Mr. and Mrs. J. P. Dean of Jackson visited their son, and Mr. and

Mrs. H. L. Bachtel of Flint visited their brother, M. L. Dean at the College last week.

Eugene Price has been re-elected manager of the M. A. C. Book-buying Association.

Prof. and Mrs. Smith ate Christmas dinner with Mr. and Mrs. John Corbin at Eaton Rapids.

J. M. Rankin is attending the meeting of the State Bee-keepers' Association at Thompsonville.

W. F. Harvey of Olivet was the guest of P. M. Lyman during the meeting of teachers in Lansing.

B. S. Brown and Timothy Foley recovered from the measles in time to spend a week of vacation at their homes.

Prof. Smith has the measles and don't know how he caught them. Perhaps it would be more nearly accurate to say that the measles have caught Prof. Smith, for it is well known that he long ago adopted a retreating policy in his campaigns with them.

Several members of the Hesperian Society labored during a portion of the vacation, and the result is a very agreeable change in their society rooms. The dark closet between the parlor and the committee room was connected by an arch with the parlor, thus making what will some day be one of the cosiest of cosy-corners.

Prof. and Mrs. J. D. Towar entertained a company of 16 in their new residence in Oakwood last Tuesday evening at six-handed euchre. Mrs. L. R. Taft won first prize—a copy of the "Horse Fair," and Prof. C. D. Smith received the consolation—a photograph of a Holstein cow. After cards Miss Anne Bosworth and Mrs. Elia M. Kedzie presided at the chafing dishes while refreshments were served. The guests of honor, Mrs. E. M. Bosworth and Miss Bosworth, of Kingston, R. I., left the next morning for a visit with friends in Ohio. Mrs. Bosworth will return to M. A. C. to make Prof. and Mrs. Towar an extended visit.

Another Beet Sugar Course.

The fact that four of the young men that took work in the beet sugar course last spring secured lucrative employment in the sugar factories of the State, is considered sufficient reason for offering a similar course in the spring of 1900. Instruction will be given in the chemistry of beet sugar manufacture and in the care and cultivation of the beet crop. Special instructors, who have had actual experience in sugar factories, will be put in charge of the work.

In a Good Position.

W. L. Cumings '93, who graduated last commencement from the Michigan College of Mines at Houghton, is now an instructor in the department of geology and mineralogy in that institution, having petrography as his subject to teach. He writes:

"Sleighting started here about December 1 and now we have about a foot of snow. Last year there was five months steady sleighting, but this is a remarkably mild winter and we will undoubtedly escape with four and one-half months."

Major Bandholtz Here.

Major H. H. Bandholtz visited friends at the College Thursday. He has been relieved from recruiting work in Grand Rapids and is now waiting for orders to join his new regiment, the Second Infantry, in Cuba. In this regiment, which is a part of the regular army, he will take rank as captain.

Wise and Otherwise.

The true secret of beauty—to be born pretty.

Takes too much interest in his business—the usurer.

The most difficult part of a drinking song is said to be the refrain.

Develop a faculty for work, but don't try to work the faculty.—*Ex.*

Though a boy may not be proud, he often keeps shady for fear of getting tanned.

Why is it that of the many people that are placed between the devil and the deep sea so few are drowned?

The late Dr. Horatio Bryant left an estate of \$40,000 to be divided between Tabor College, Iowa, and Talladega College, Alabama.

It is strange but true that the average woman does not consider herself fortunate when she gives herself in marriage and gets two soles to boot.

"Jack says this new horse he has bought is a bargain." "Then it is a safe lady's horse." "Why?" "Because a woman can always drive a bargain."—*Judy.*

Lawrence & VanBuren PRINTING CO.,

Ottawa St. E. Lansing, Mich.

LOTS FOR SALE IN "OAKWOOD"

On Easy Terms—Low Prices.

Buy a lot and we will lend you the money with which to build a house.

CITY ADVANTAGES,

including electric lights, sewerage and regular street car service with

COUNTRY TAXES.

Buy now while prices are low. Rent of rooms alone will pay TEN PER CENT. NET on the investment.

Enquire of either

DR. J. W. HAGADORN,
EDWARD CAHILL,
C. D. WOODBURY, or
A. C. BIRD.

IF IT IS

HARDWARE

you can get it
at...

NORTON'S

111 Washington Ave. S.

COLLEGE BUS HEADQUARTERS.

We have made unusual preparations for Fall and Winter Underwear business and are in position to show almost everything desirable in Silk, Wool or Cotton garments.

Combination Underwear....

is constantly growing in popularity; never sell a customer a two piece suit after wearing combination. Avoids double thickness about waist, clothing fits better and life is brighter. All qualities in men's, women's and children's suits.

Don't get so excited over the merits of combination underwear that you forget we have

THE UP-TO-DATE HAT STOCK

OF LANSING. Would like you to come in and see for yourself.

Neckwear department chock full of New Bright Ties.

Students' Patronage Solicited.

ELGIN MIFFLIN.

Furniture Headquarters.

Cots at - - \$1.25, \$1.50, \$2.00 and \$2.50
Wire Springs at - - \$1.50 and \$2.00
Mattresses from - - \$2.00 up
Tables, Rockers, Bureaus, Iron Beds.

All goods delivered free to College.

M. J. & B. M. Buck.

R. B. Shank & Co.,

Leading Grocers and Confectioners.

Simons Dry Goods Co.

CLOAK DEPARTMENT

SECOND FLOOR.

We offer a fine line of Ladies' and Misses' Jackets.

3 Specials at

\$7.00

\$8.50

\$10.00 each.

Large line of Dress Skirts, House Jackets, Mackintoshes, Shirt Waists, etc.

OPENING DISPLAY OF...

Fur Jackets,
Collarettes,
Scarfs, Etc.

THREE
FLOORS

1st—Dry Goods.
2d—Cloaks and Ready Made Garments.
3d—Carpets and Draperies.
ELEVATOR.



Special Sale on

\$5. Enamel Shoes

These shoes are made from the best imported stock—medium heavy extension soles—medium round toes—a warm, dry and comfortable shoe for winter wear.

Sale Price, \$3.95 a pair.

C. D. WOODBURY,

HOLLISTER BLOCK.

News from Graduates and Students.

Dan G. Smith with '95 spent Christmas with College friends.

E. M. McElroy '93 has been asked to remain at Union City another year.

C. H. Haigh with '94 is managing a roller skating rink in the old armory in Lansing.

E. E. Gallup with '96 reports an increase of \$100 in salary and everything lovely at Hanover.

Miss Coral Havens with '00 has gone to Boston to fit herself for teaching domestic science.

Ray Stannard Baker '89 had an article on Gen. Leonard Wood in the last *Sunday Free Press*.

C. R. Winegar '91 of Detroit was in Lansing last week. He is traveling for a Cleveland paper firm.

Prof. C. C. Georgeson '78 has returned from Alaska and is spending the winter in Washington, D. C.

James Satterlee '69 and wife were guests of Prof. and Mrs. H. W. Mumford several days of last week.

Supt. McKone of Albion strongly endorses the work of L. H. Baker '93 as principal of the Albion high school.

Miss Libbie M. Broughton with '01 attended the association last week. She is teaching in the Middleville schools.

Mr. R. H. Pettit reports seeing R. E. Morrow '98 at Atwood, where he is successfully managing a steam power creamery.

Homer C. Skeels '98 came down from Grand Rapids Saturday. With him was a son of F. E. Skeels '78, who has entered College.

C. E. Bassett with '86, editor of the *Fennville Herald* and secretary of the State Horticultural Society, spent December 20 at M. A. C.

H. S. Reed with '00 writes that work for this season at the Alma beet sugar factory is nearly done. He will return to M. A. C. in a few days.

Joseph Bell Cotton '86 and Miss Louise Hubbell will be married next Thursday evening, January 4, at St. Paul's Episcopal church, Duluth, Minn.

A. M. Nutten with '95, who visited the College during the State Teachers' Association, is superintendent of schools at Alamo, Kalamazoo county.

Principal Charles McKenny '81, of Mt. Pleasant Normal, has been elected president of the Milwaukee Normal school to succeed Pres. Cheever, at a salary of \$3,500.

Sheldon B. Young '96 was married Wednesday, December 20, to Miss Nellie M. Milbourne. At home in Imlay City. It is reported that Mr. Young has been appointed to a position in the census bureau at Washington, D. C.

Three of our graduates that attended the State Teachers' Association have changed positions this year: Supt. W. V. Sage '84, from Decatur to Mt. Pleasant; C. J. Barnum, from Goodrich to Edenville, and W. C. Sebbins '95 from New Troy to Coloma.

While in New York recently attending the meeting of the American Society of Mechanical Engineers, Prof. Weil met Prof. P. M. Chamberlain '88m, Dwight Cole

'93m, L. G. Barber with '92m, E. H. Sedgwick '97m, C. A. Gower '98m, and Henry Keep with '01.

Allan H. Stone '99m, Port Huron, spent his holiday vacation in Lansing and called on College friends.

The Ann Arbor *Argus-Democrat* announces the marriage on December 20th of LeRoy A. Wilson '94 to Miss Georgia M. Deubel of Ypsilanti. Mr. Wilson graduated from the U. of M. law school last June, was captain of the U. of M. rifles and a member of the debating team that vanquished Pennsylvania. He is now practicing law in Benton Harbor.

The marriage of Louis C. Brooks '92m and Miss Sarah Honetta Spore was solemnized at the home of the bride's parents in Schenectady, N. Y., December 18. Mr. and Mrs. Brooks will make their home at 333 Forty-ninth street, Newport News, Va., where Mr. Brooks has a good position as draftsman for the United States naval constructor. The wedding was attended by J. H. Steele '96m and George A. Parker '98m.

Began as a Farmer.

Potter Palmer was born a Quaker farmer in New York state and grew up to early manhood as a keeper of horses and cattle and a tiller of the soil.

Why Not ?

Don't you think it pays to buy your Drugs at Cut Rates? You save money and the increased volume of business pays us.

TRY IT.

ALSDORF & SON,

CUT RATE DRUGGISTS and
PHOTOGRAPHIC SUPPLIES

CHAS. A. PIELLA,

DEALER IN

DIAMONDS, WATCHES, JEWELRY,
Clocks, Silverware, Art Goods.
121 Washington Ave. N., LANSING, MICH.

Employees of M. A. C.

Desiring to build should
not purchase their material before
consulting with

Hiram Rikerd,
Lansing, Mich.

Lumber of all kinds.

Interior Finishing a specialty.

PRICES RIGHT.

Office and Factory, Mill St.
Both Phones.

Davis Clothing Co.

103 Washington Ave. S.

COME ON BOYS—

We have all the latest up-to-date styles and patterns in

CLOTHING, FURNISHING GOODS AND HATS.

We also keep Sweaters, Supporters, Foot Ball Pants and Jackets.

We are glad to see the old men back and will be pleased to have the new men call. Make our store your headquarters while down town, it is a handy place to leave your packages. WE ARE ONE PRICE.

WE SELL FOR CASH ONLY.

DAVIS CLOTHING CO.

BICYCLE and ELECTRICAL SUPPLIES.

Also the largest Repair Shop in Lansing fully equipped with power machinery.

We pay all transportation on wheels to and from College when repairs amount to one dollar or more.

Capitol Electric Engineering Co.
321 Washington Ave. S.

DIRECTORY

LANSING BUSINESS and
PROFESSIONAL MEN

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.

J. H. WOOD—Barber. 106 Michigan Avenue E. College work especially solicited.

BOOKS AND STATIONERY.

LANSING BOOK AND PAPER CO. Waterman and Sterling Fountain Pens, Stationery, Pictures, Frames, Wall Paper. 120 Wash. Ave. N.

CITY BOOK STORE. Fountain Pens, Drafting Tools, Stationery, Cards E. engraved, Pictures and Picture Framing. Tennis, Football and Baseball goods. Crotty Bros., 206 Wash. Ave. N.

BOOTS AND SHOES.

C. D. WOODBURY.—Boots and Shoes. We shoe the students. See ad.

BICYCLES.

GEO. H. RICHMOND. Pierce Cycles. Full line of sundries. Repairing and renting at reasonable rates. 200 N. Washington Ave.

CLOTHING.

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

A. E. DAVIS.—Clothing and Gentlemen's Furnishings. See ad.

CROCKERY AND GLASSWARE.

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

DENTISTS.

R. W. MORSE, D. D. S. Hollister Block, Room 517.

D. R. DAWLEY, M. D., D. D. S. Office over Postal Telegraph Co., Michigan and Washington aves.

D. E. PARMELEE.—Dentist. 218 Washington Ave. south. Opposite Hudson House.

DEPARTMENT STORE.

DONSEREAUX'S DEPARTMENT STORE is the place to trade. You can get a warm lunch in our cafe for 10c.

DRUGGISTS.

ALSDORF & SON—The Druggists. Two stores, 102 Washington Ave. N. 335 Washington Ave. S. See ad.

C. J. ROUSER—Capital Drug Store, 123 Washington Avenue South.

ALL MEATS....

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.

We make daily trips to the College.

BOTH PHONES. Careful attention given to phone orders.

GOTTlieb REUTTER.

Washington Ave. South.

DRY GOODS.

SIMONS DRY GOODS COMPANY.—Dry Goods and Carpets. See ad.

FURNISHING GOODS.

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

FURNITURE DEALERS.

M. J. & B. M. BUCK.—Furniture. Cor. Washington Avenue and Ionia Street. See ad.

GROCERS.

R. B. SHANK & CO., 200 Washington Ave. S. The leading grocers. Both phones. Daily delivery to the college.

HACK AND BAGGAGE LINES.

M. A. C. STUDENTS—Don't forget W. H. PORTER, the Hack and Liveryman. Rubber tires a specialty. 300 Capitol Ave. S. Both Phones.

HARDWARE, STOVES AND TINWARE.

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

INSURANCE.

THE DYER-JENISON-BARRY CO., LTD., (Incorporated) 108 Mich. Ave. West. All kinds of the best insurance. Strongest agency in city.

JEWELERS.

B. P. RICHMOND—Watchmaker, Jeweler and Engraver. 200-202 Washington Avenue N.

LAUNDRIES.

THE VAN GORDER PALACE LAUNDRY. College agents, C. H. Hilton, 97 Wells; Irving Gingrich, 47 Williams. S. P. Lantz, Prop.

LUMBER DEALERS.

H. W. RIKERD.—Lumber Dealer. Mill Street. See ad.

MERCHANT TAILORS.

WOODBURY & SAVAGE.—Tailors. Student trade solicited. Opposite Hotel Downey, North.

JOHN HERRMANN'S SONS. Fine Tailoring. 218 Washington Avenue N.

OCULISTS.

JOSEPH FOSTER, M. D.—Eye, Ear, Nose and Throat. Hours 9 to 12 A. M. City National Bank Building, Lansing.

PHYSICIANS.

A. D. HAGADORN, M. D.—Office hours, 11 to 12 A. M., 2 to 4 and 7 to 8 P. M. Office at 212 Washington Avenue S.; home 419 Seymour St.

D. R. J. M. COLLIER.—123 Washington Ave. south. Office over Capital Drug Store. Residence 310 Seymour St.

RESTAURANTS.

GILBERT M. HASTY.—Proprietor Hasty's Gem Lunch. Best meals and lunches in the city. Quiet place for ladies. 113 Wash. Ave. S.