OFFICERS OF M. A. C. ALUMNI ASSOCIATION.

President, R. A. Clark, ’76.
Vice President, L. G. Beggerly, ’28.
Secretary-Treasurer, G. W. Zuber, ’08.

EASTERN PROGRAM. M. A. C.

April 4th, 1904.

ORDERS II.

Orders A and B will receive their arms equipment on Wednesday, April 6th, from five to six p. m., and companies C and D on Thursday, April 7th, at the same hour.

Drills will be held on the parade ground on Tuesdays, Wednesdays, and Thursdays.

As the time allowed for drill is short, cadets will be required to report promptly with their companies at the hour designated for drill. All are required to attend their drills except those excused by proper authority, which must be in writing and sent to the adjutant's office previous to the drill hour.

The practice of cadets reporting to the adjutant when late is not the proper procedure. They should report to their own company at the hour appointed and will send in the name of all such to the adjutant in order that monthly reports may be sent out.

Cadets are reminded that they are held responsible for the care of arms and accoutrements issued to them.

By order of Major Kel–

Vincent N. Carpenter,
1st Lieutenant, Adjutant and Corps of Cadets.

SUNDAY SCHOOL.

Song, Hail Easter Day, No. 112.
Prayer.
Responsive Reading.
Coronation.
Repeat 23d Psalm.
Easter Offering.
Recitation.
Welcome, Ethel Taft.
Children's Creed, Primary Class.
Carol, Miss Hurdwick's Class.
Reading, Robert Holworth.
Song, Welcome Spring, Primary class.
Recitation.
Lawrence Longyear.
Music, Mrs. Hedrick's class.
Recitation.
Easter Halls, Harold Bird.
Talk, What Easter Means to us, Miss Hopkins.
Sec.-Treas. Report.
Song, Christ The Lord is Risen.

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THE M. A. C. RECORD.

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

EDITORS: G. MASEFIELD, A. J. DUKES


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Address all manuscripts and advertising matter to the College Secretary, Agricultural College, Mieen. Address all contributions to the Managing Editor.

THE M. A. C. RECORD.

THE LABORATORY METHOD.

The above is the subject of an article by Mr. W. S. Leonard, formerly of the machine shop at M. A. C., in the "Engineering Education" of March 51, '05. There has been some discus-

sion of the relative merits of lab-

oratory shop methods in engi-

neering colleges. Mr. Leonard says: "It may be admitted that the laboratory method has some important advantages as compared with the workshop method. By the laboratory method we may select the best exercises and the tools best adapted to the work, and, by con-

tinual repetition, discover the best way of imparting the instruction, and, because the same exercises are executed over and over again, the work of the instructor is much easier. This circumstance makes it possible to impart a larger amount of the material of the course for the instructing. We may go a step farther and admit that if we have the right equipment and if we can teach the student thoroughly from the beginning how to chip and file, to do lathe work, planer work, milling machines, etc., if we wish to teach mere tool manipula-

tion, the laboratory method cannot be surpassed, but such a plan is more in accord with the object of the manual training schools. The engi-

neering school should have a differ-

ent object, or at least a wider scope to its shopwork.**

Milling machines, etc., and endeavor
to conduct the work much as in a regular drafting office, making only such modifications as educational re-

quirements necessitate. By lectures and typewritten matter the attention of the student is directed to the methods and regulations which have been found to give the best results in practice. This is also referred to technical journals relative to the machines being designed, and to articles of the shop-work for the same time. Sometimes the instructor tells the class criticisms of techni-

cal articles published in technical jour-

nals. The student thus learns what he will be expected of him when thrown upon his own resources and discovers the weak places in his work which need to be strength-

ened.

It is the intention that each stud-

ent's progress shall be such as to be 

scribed. Complete assembly and det-

ails in great measure are made, and the students are given to understand that the machines are likely to be built by them in the shop. If the patternmaker calls attention to any errors which have been over-

looked in the design, the student responsible for such errors is sent to the pattern shop to inves-


It has been our policy to employ the laboratory method in combina-

tion with the workshop method. As indicated above, we aim to build many of the machines designed by the students, and to make it successful necessitates a liberal expenditure of time and money. Generally, the student responsible for such work would be appreciated by the "captains of industry" to whom the student's work will be submitted.

Fourth, that the shop-order and 

structure are used, the student gets another kind of training which is of value to the engineer. Parts may be made with less ex-

pense and greater accuracy than would otherwise be impossi-

ble. The shop-order and labeling systems are used, the student's interest and causes him to understand what parts of the work are of value, viz.: a knowledge of the part of the machine that is treated as a child and not as a man. What will be expected of him when thrown upon his own resources and discovers the weak places in his work which need to be strengthened.

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NORTON'S RANGES!

The Easy Line to Use
Take it EARLY in the SPRING, and you will find that the present range which suits your needs.

MARGUERITE OR LINCOLN.

CHAS. M. NORTON,
111 Washington Ave. S.

Furniture...
Headquarters
COMPLETE LINE OF FURNITURE FOR STUDENTS' ROOMS
Canvas Cots at $1.50. Woven Wire Cots at $1.50. Woven Wire Springs at $1.50, $2.00, and $2.50. Mattresses at $2.00, $2.50 and $3.00. Tables at $1.50 and $2.50. Chairs at $1.00 up.
All goods delivered to your room free.

M. J. & B. M. Buck.

THE JEWETT & KNAPP STORE
Lansing's Low Priced Reliable Store
Every Department full of New Fall Goods.
We also carry a Complete Stock of Lace Curtains and Draperies.
Jewett & Knapp,
222, 224 Washington Ave. S.

ABOUT THE CAMPUS.

Mrs. J. P. Bond of Leslie is visiting her daughter, Mrs. B. O. Langyear.
Reports from the South Haven and Upper Peninsula Stations will be published during April.
Pres. Snyder was elected president of the Michigan Schoolmasters' Club for the ensuing year.
Word comes to us that Hiram Carter, a member of the class of 1890, is out on the fringes of the fabulous Colorado.
Prof. C. D. Smith addressed a meeting of farmers at Rives Junction last Saturday. The attendance was large and much interest was manifested in M. A. C.
E. Boyer had the misfortune to break his collar bone last week while playing base ball. He was sliding for second base and colliding with the baseman's knee. He is rapidly improving.
Forty-six years ago, thirty young men graduated at the U. of M. in what was then known as the classical course, with the degree of Bachelor of Arts. In 1890, thirty-three young men graduated with the same degree. In the meantime the number of students had increased from 540 to 3712. Greek and Latin are hardly keeping up with the times.
About 100 feet of the tunnel of the new heating system are finished. Some excavating has been done in the yard back of the horse barn.

This Cut represents one of the many
New Styles in Men's Hats
which we now offer for your inspection. Nothing but latest styles and best qualities find place here. Some applies to one neckwear and cap stock—they are up-to-date in every respect. Student patronage solicited.

ELGIN MIFLIN

NO SHOE . . .
Will command Greater Popularity than our line of well lasted, well trimmed Shoes, especially designed to please the T. L. C. girl.
Price $3.00 a pair.
Many Styles and Toe Shapes.
Many Leathers including a handsome Patent Coll, Blucher style.
C. D. WOODBURY,
Hollister Block.

Agriculture, who gave an address on "Winter Pastures and Forage Crops for the Southern States."

With '93.
A simple home wedding was solemnized at the house of Mrs. N. P. Bonney last Monday morning when her daughter, Alice J., was united with W. W. Tracy, of Washington, D. C. The ceremony was performed at 6 o'clock a. m. by Rev. F. P. Sprague, of the Congregational church, was witnessed by only the immediate relatives and a few friends of the bride and groom.

Immediately after the wedding those present sat down to a delightful wedding breakfast and after the meal the newly married couple left on the 6:19 train for Grand Rapids and other southern points where they have been visiting for several days, returning here last night.
Neither of the two moist interested in the event needs an introduction to the people of this vicinity, the bride having been a resident here for nearly twelve years past, graduated from the local high school and has since taught for a number of years in the local and Frankfort schools.

The groom has been identified with the community for the past two and a half years as editor and publisher of this paper.
We appreciate the many kind wishes which have been extended by our many friends and if those to whom the ceremony was a surprise shall not happen again.
Mr. Hallack is editor of The Thompsonville News.
A FEW WORDS CONCERNING THE NEW MICHIGAN FLORA.

by W. J. BEAL.

The last edition by Beal and Wheeler was printed in 1892. The edition of which I now speak is now in press and will form a portion of the third volume of the Michigan Academy of Science. The sequence of families in former Michigan Flora—Flora of Michigan—Manual is essentially that of Auguste Pyrame De Candolle. Most of the systematic botanists believe to be best.

The bibliography has been compiled by farm crops. Chiefly through the agency of man, great numbers of weeds and other plants have been introduced from foreign countries and each has begun a vigorous warfare for all the room it can get.

Whoever prepares the next edition of the Michigan Flora will find a large number of acquisitions. What new species, or supposed new species, will be described, foreign acquisitions may be expected from all directions.

With G. V. Nash let loose among the flowers of the country, E. L. Bicknell finding a plenty of examples of Strepesium, E. L. Greene making hosts of new species of Anemone and many others.

Besides these, P. A. Rydberg and others have found weeds and that sold by some other markets. We handle none but the very best. Like

THE M. A. C. RECORD.

DOMESTIC SCIENCE CHEMISTRY.

(Continued from page 2.)

into shape by an iron roller. From this belt it was taken upon a long wooden sloop and thrown on the top of which the oven was over. The oven is a Ferris wheel affair consisting of twelve pans. The dough is placed on the lower of the pans at one time and with one revolution hot crackers nicely crisp are pushed into the next and carried away. Cooked. Cookies are also manufactured at this factory, but not every two days. We did not see them in the process of making but were allowed to test several of the samples of. wafer, coconut wafers, spiced wafers, fig newtons, marashmallow wafers, who would ever tire of these, surely the members of Club C would not.

The last place inspected was the Pure Food Company. Here we learned some of the methods used in adulterating foods. The trip was interesting and helped us to a good bit of useful knowledge.

A. F.

THE POLICY HOLDERS' COMPANY.

The Mutual Benefit Life Insurance Co.,

of New York, N. Y.

CHAS. B. COLLINGWOOD, District Manager.

Agricultural College,

Lansing, Mich.

THEIR RECORD IT shows itself to be

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