

# The M. A. C. Record.

Vol. 3.

LANSING, MICHIGAN, TUESDAY, APRIL 26, 1898.

No. 32.

## Mechanical Engineering at M. A. C.

### INQUIRIES.

"We frequently have inquiries from ambitious young men who have their own living to make, and are desirous of obtaining a college, or university, education. As a general thing, the difficulties of the situation are aggravated by the fact that the aspirant has not had the preparatory training in mathematics, literature, and the languages, living or dead, which is insisted upon by most of the universities as a requisite for admission." From an engineering paper.—*Power*, for April, 1897.

### OUR ANSWER.

We desire to inform the young men of our state that Michigan has an institution,—M. A. C.,—where those who possess but limited means, and who have had only a small amount of preparatory training, are given an opportunity to get a college training along engineering and agricultural lines. We wish to present a few points concerning the M. A. C. engineering course, which, while primarily designed for training mechanical engineers, constitutes in every particular, a proper basis course for electrical engineers and, to a considerable extent, for civil engineers.

### POINTS ON EQUIPMENT, SUBJECTS AND METHODS.

The shops are four in number, namely: Machine, pattern and wood-working, blacksmith, and foundry.

In the machine shop the student, beginning with hammer and cold chisel, is taught the various operations of machine shop practice. The work familiarizes the student with the use of such tools as the planer, lathe, milling machine, grinding machine, drill press, etc. Note that four of our engine lathes that are in daily use were constructed by students.

In the wood shop benches are arranged to accommodate forty students, and the shop is well equipped with small tools. Seven lathes used for turning exercises were built at M. A. C.

The blacksmith shop is provided with twenty forges and accessories, also with blower, exhaust fan and an independent engine. In the blacksmith shop the students are taught methods of forging and tempering steel, and the various kinds of welding. Considerable attention is given to the forging and tempering of lathe and planer tools.

Our foundry equipment includes a Collian hot-blast cupola, twenty-four inches inside of lining. The

limits of this article will not permit of dwelling on the College shop equipment, nor of entering into further details concerning tools, etc., built by students. We note, however, that the engine used to drive our shops was built at M. A. C.

Our shop foremen are men of large practical experience.

The experimental laboratory equipment is varied, including a machine for testing materials of 50,000 pounds capacity, a cement testing machine, five steam engines, gas engine, hot-air pumping engine, water motor, dynamometers, etc. The M. A. C. course in drawing and machine design is extensive and practical.

Note that our students are given an opportunity to follow out the sequence of operations involved in practical machine construction, beginning with the drawing board and passing through the various shops. At the present time a milling-machine, designed by students, is being

a high school and college education we issue an invitation to M. A. C.; we can do much for such young men, even if their training is not such as will permit of accomplishing the work of the engineering course in the regular time. It is believed that the M. A. C. course in engineering has greatly helped, during its brief existence, hundreds of young men who have not found it convenient to complete the course, along the line of their chosen work.

### DOES IT PAY?

We think the right kind of young men will find a course in engineering at our school a paying investment. One of our boys, a '96 graduate, who is employed in one of the largest electrical works in this country, writes as follows:

"Mr. W—, superintendent of the drafting department, tells me that the company must have more draftsmen, and says he would like

## Natural History Society.

The Natural History Society met last Friday evening and enjoyed a good program.

Mr. Rankin, in charge of the College apiary, gave a talk on bees. The hive bee, *Apis Mellifica*, was wild in Greece and is now found wild and domestic over the world.

We know from Aristotle and Vergil that bees were held in esteem among the ancients. German settlers brought the first bees to America in early times. Before the Langstroth hive was invented in 1851, the colony was killed to get the honey, but in his hive, since improved, there is a brood chamber and a compartment for surplus honey above, from which the mother bee is excluded. The queen, or mother bee, lays eggs from which come drones or males and workers or undeveloped females. New queens are reared from eggs such as the workers come from.

Before swarming time the modern bee-manager clips the wings of the new queen so that the new swarm cannot get away to the woods.

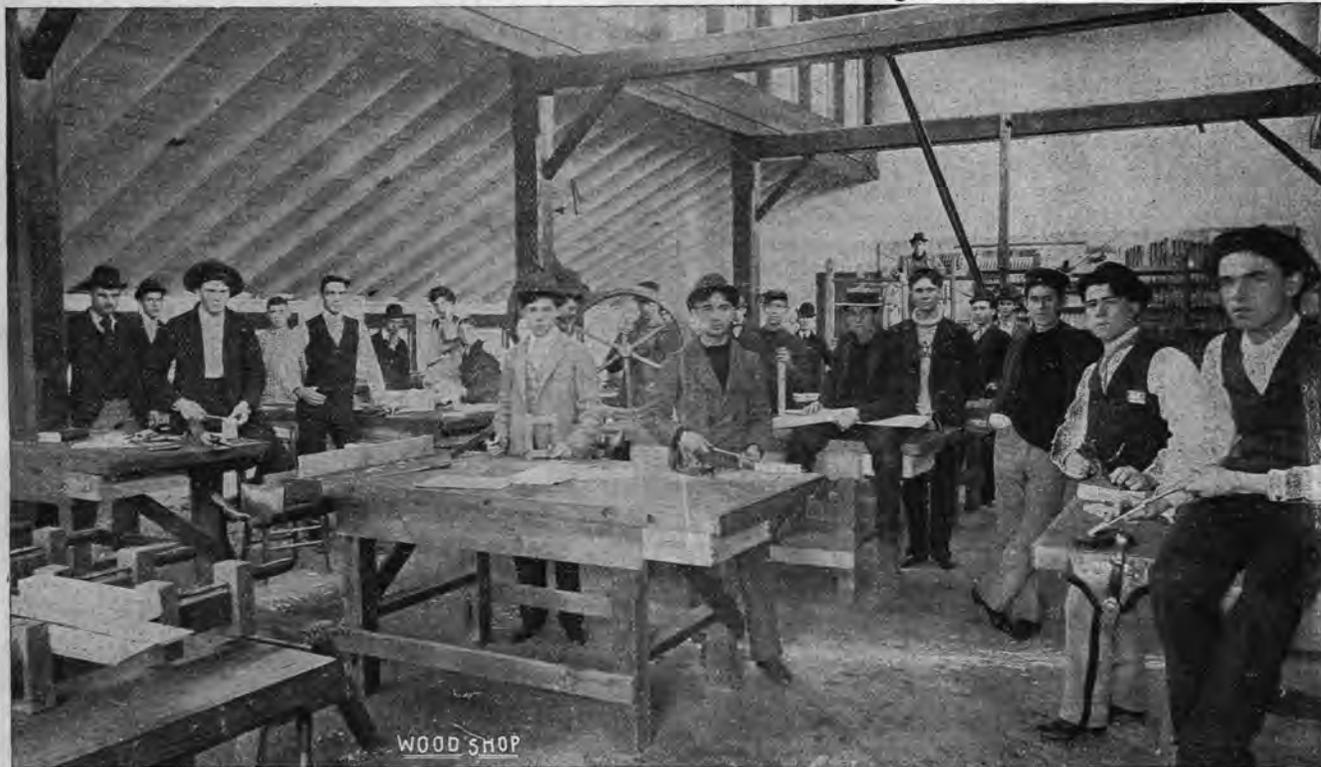
Mr. Slayton next spoke of a nesting colony of blue herons which he visited last May. This heronry is in a swamp of tall black ash in the deep woods, not far from Slayton's home, in Kent county, Mich. In all there were 50 or 60 nests, there being from one to eight in a tree and all placed as high as possible.

The tree Slayton climbed had seven nests in it and these were 90 to 95 feet from the ground, by measurement. The nests were built of sticks and showed the accumulations of years. Some of them were lined with green tamarack twigs. Of the seven observed all contained eggs or young, three to five in a nest. Hunters sometimes visit the colony as the young are leaving the nests and have a little "sport."

Under general observations, Dr. Beal spoke of some small maple saplings in our woods, gnawed presumably by hedgehogs. Dr. Barrows showed galls of the goldenrod opened, as he supposes, by the downy wood-pecker. Mr. Cole showed a white crow-blackbird which he shot a few days ago on the campus.

B. B.

The eastern universities are now having light regular football practice. One can see why they reach such perfection in their game, and are so advanced over most western universities, which only give their attention to the game during the fall term.



built in the M. A. C. shops.

Note some of our subjects taught in the engineering course: Shop methods, steam-engine, strength of materials, thermodynamics, kinematics, machine design. Work is provided for in electrical and civil engineering.

### A FEW WORDS IN EXPLANATION.

The number who graduate from our course in engineering is small when compared with the number who undertake the work, as is the case in engineering schools generally on account of the severity of such courses. At M. A. C. the difference is more marked because of the fact, as before stated, that this College admits young men who have had but a limited preparatory training. It should be clearly understood, however, that at M. A. C. the high school graduate will find ample opportunity for work along engineering lines, and that it is advisable that students who contemplate studying engineering at this College should take a portion, at least, of a high school course. To young men who cannot afford both

to have me write home for some. If any of the boys would like a position with this company, please advise them to write, at once, to etc."

### OUR EXCUSE FOR THIS ARTICLE.

Considerable has been said in this article in regard to the value of the engineering work at M. A. C.; we are led to write such an article because of such criticisms as the following, which was made by a recent board of visitors to the College:

"The facilities which the College affords for obtaining an education, such as should be given in an institution of this character have not, we believe, been fully appreciated by the people of our State. Especially does this seem to be true in reference to the work of the Mechanical Department." (See recently published report of the Secy. of the State Board of Agriculture for 1896.) In using the words "Mechanical Department" in the foregoing, the intention was evidently to embrace the course in mechanical engineering, to which course we now invite the attention of the young men of Michigan.

## THE M. A. C. RECORD.

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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 7:30 and Thursday evenings at 6:30, C. W. Loomis, President. E. M. Hunt, Cor. Secretary.

Y. W. C. A.—Weekly meetings for all ladies on the campus, Tuesday evenings at 8:00, in Abbot Hall. Sunday meetings with the Y. M. C. A. Miss Russel Taylor, President. Miss Emma Bach, Cor. Secretary.

KING'S DAUGHTERS—Meet alternate Wednesdays. Mrs. J. L. Snyder, President. Mrs. W. Babcock, Secretary.

NATURAL HISTORY SOCIETY—Meets second Friday of each month in the Chapel at 7:00 P. M. T. L. Hankinson, President. O. W. Slayton, Secretary.

BOTANICAL CLUB—Meets Monday evenings at 6:30 in the Botanical Laboratory. B. Barlow, President. Miss Marie Belliss, Secretary.

SHAKESPEARE CLUB—Meets Wednesday evenings at 7:30. Dr. Howard Edwards, President.

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

ECLECTIC SOCIETY—Meetings every Saturday evening at 7:00, Fourth Floor, Williams Hall. W. J. Merkel, President. L. H. Taylor, Secretary.

FERONIAN SOCIETY—Meetings every Friday afternoon at 1:00, West Ward, Wells Hall. Jennette Carpenter, President. Bertha Malone, Secretary.

HESPERIAN SOCIETY—Meetings every Saturday evening at 7:00, West Ward, Wells Hall. L. J. Cole, President. A. J. Cook, Secretary.

OLYMPIC SOCIETY—Meetings every Saturday evening at 7:00, Fourth Floor, Williams Hall. George Campbell, President. T. J. Leavitt, Secretary.

PHI DELTA THETA FRATERNITY—Meetings every Friday evening at 7:30, East Ward, Wells Hall. C. M. Krentel, President. J. L. S. Kendrick, Secretary.

THEMIAN SOCIETY—Meetings every Saturday evening at 7:00, Chapel. Irma Thompson, President. Harriet O'Connor, Secretary.

UNION LITERARY SOCIETY—Meetings every Saturday evening at 7:00, U. L. S. Hall. F. W. Robison, President. C. H. Hilton, Secretary.

TAU BETA PI FRATERNITY—Meetings on alternate Thursday evenings, Tower Room, Mechanical Laboratory. F. V. Warren, President. C. A. Gower, Secretary.

CLUB BOARDING ASSOCIATION—E. A. Calkins, President. Lucy E. Monroe, Secretary.

M. A. C. ATHLETIC ASSOCIATION—F. V. Warren, President. E. W. Ranney, Secretary.

## The Educated Man in Stock Raising.

COLON C. LILLIE, '84, PRESIDENT MICHIGAN JERSEY CLUB.

The above subject is worthy of an abler pen. To be a successful stock man to-day requires far more knowledge than it formerly did. Many people can raise stock, but few make a success of it. To make a success of stock raising, one must improve his stock, which is something that very few men have accomplished, and make a financial success of it also. What is meant by "the educated man in stock raising?" Evidently educated does not mean here learned in the law, or theology, or medicine, etc., but in stock raising. To be learned in stock raising, one must have knowledge of the science and art of breeding, and of the science and art of

feeding. Breeding and feeding,—these are the two things the stock raiser must understand if he hopes to make a success. Does a man need an education to understand breeding and feeding? He certainly does. What kind of an education is best for him? The more he knows of biology, physiology, and especially comparative physiology and chemistry, the better prepared is he to grapple with these questions. The first impressions of the novice is that these questions, breeding and feeding, are simple enough, but when they come to be worked out in detail and satisfactory results reached, they lead into a world of knowledge which none but a thorough student will acquire.

It is not necessary for the stock raisers to be a specialist in animal physiology or in chemistry. Indeed it is probably better that he should not be, but if I may be allowed the extravagant expression, he must be more, be greater than a specialist in physiology or chemistry, he must be a specialist in stock raising and must master the principles of these sciences and then be able to weld them into one homogeneous unit for his purpose. The district school course of study does not furnish the material for this work. The stock raiser must go higher for his material than the district school. He must have a thorough course in the natural sciences and then select from these sciences the material with which he builds. He must understand the law of heredity and its application; the influence of food on producing the desired type of individual and consequently he must understand the chemistry of foods. Now the point is this, the boy can not jump from his district school knowledge into the chemistry of foods and understand it. He must have training up to this point before this is comprehended. In other words, he must be taught the fundamental principles of this science before he can comprehend the analysis of foods, and he must understand the principles of physiology before he can comprehend the influence of food on the productions of type in the individual.

Then again the stock raiser must have food for his stock and the major portion of it he must grow himself if he makes a profit. Then here comes in another line of education for the stock raiser. He must be a practical farmer. And he must not only know how to grow food but he must know how to grow food cheaply or he is a failure. Hence it is evident that the stock raiser must have much information. It is not necessary for him to know Greek and Latin but he must know something of the sciences allied to his calling. Where shall the young man get this education which will bind to make him a successful stock raiser? There is no other place where he can get this in so short a time nor so cheaply as at a well equipped Agricultural College. The course of study at such an institution was arranged expressly for such purposes. Of course the information can be picked up here and there by a great deal of time and labor but in a good Agricultural College it is spread out before the student in one continuous, progressive course, and he can get more of the desired information there in four years than he could in 20 years of haphazard reading and study. My opinion is that young men who wish to excel in stock

raising can well afford to take a four years' course in our Agricultural College.

## Sugar Beet Experiments.

The Experiment Station has distributed over one thousand pounds of sugar beet seed donated chiefly by the Department of Agriculture at Washington. The seed has been sent out for the most part in amounts sufficient to sow an acre, with the understanding that the farmer receiving them will keep an accurate account of the labor involved in caring for the crop, will weigh the beets at harvest and send samples to the College for analysis. Nearly all the counties in the southern half of the State and some in the Upper Peninsula are represented.

The experiments in sugar beet culture at the College include tests of varieties and of fertilizers, experiments in seed germination with tests of the value of certain nutrient solutions, cost of production, tests of implements and growing improved seed in co-operation with the United States Department of Agriculture and independently.

## The Spirit of '61.

The excess of patriotic enthusiasm at the College fairly boiled over Thursday night when nearly every student went on the parade ground to celebrate the declaration of war. A huge bonfire was built on the cinder track, upon which Weyler was burned in effigy—"toasted," as one of the boys remarked—and around which between 200 and 300 howling students cheered for Lee, the South, McKinley, Alger, the Navy, the Army, the North, "Old Glory"—everything American; and groaned for Weyler, Blanco, and everything Spanish. For over two hours the celebration was kept up, and speeches were made by every member of the faculty that could be found, as well as by several students. Friday night a number of the boys helped the city people celebrate; and Saturday night the band, cannon and another bonfire gave evidence of the increasing fervor in the hearts of our young Americans.

## Elegantly Entertained.

Miss Amy Vaughn, '97, of the Domestic Science Department, elegantly entertained the following gentlemen at a 12 o'clock luncheon Saturday: Revs. Osborne and Cadwell; Supt. St. Johns, H. R. Pattengill and C. B. Collingwood, of Lansing; President Snyder, Secretary Butterfield, Prof. Weil, Dr. Marshall and Thos. Gunson of the College.

The writer started to count the number of courses, but somewhere near the eighth all effort along this line was abandoned. The viands were prepared with such exquisite deftness that it would be well nigh impossible to tell their composition.

Miss Vaughan must have given considerable study to the taste and capacity of the average male guest at a luncheon, for there was just enough served to each guest, without necessitating waste; and each succeeding course was made more attractive and appetizing than the preceding one.

On the centre of the table lay a circular French plate glass mirror and on this stood an elegant trumpet vase filled with carnations. Around

the mirror three rows of red, white and blue flowers were placed to represent the national colors. On the wall hung a large flag—particularly dear to us at this time—rendering the whole thing pleasing, patriotic and attractive.

Misses Paddock and Gunn waited on the guests with an ease and grace that merits the highest praise. The whole thing was truly a swell affair.

T. G.

## Baseball.

Monday afternoon of last week our first nine defeated Hillsdale at Hillsdale in an exciting game. At the end of the eighth inning the score was 11 to 9 in favor of Hillsdale. In the first half of the ninth our boys scored four runs. In the second half Millar, who had pitched the whole game, weakened, and with one out, gave two men bases and three balls to the next man. Warren then went in the box, gave the first man his base, filling all corners, then retired the side without a run.

M. A. C. lost a hard fought game to Olivet Saturday. Two good double plays added zest to the playing. In one inning Olivet was retired with only three pitched balls. Timely batting and a throw into the crowd in the fifth inning gave Olivet six runs and the game. The score:

	1	2	3	4	5	6	7	8	9	
Olivet,	1	0	0	0	6	0	0	0	0	—7
M. A. C.,	0	0	0	0	3	3	0	0	0	—6

Batteries—Wright and Hall, Warren and Krentel. Struck out—By Wright, 2, by Warren, 1. Double plays—Davis and Terwilliger; Gibson, Ranney and Adams.

At Charlotte Saturday afternoon the second nine easily defeated Charlotte high school nine, the score being 24 to 15. Severance, Beebe, Morrow and Baker did the battery work for M. A. C. Leavitt and Agnew did good work.

The first game of the season on home grounds will be played with the Normals next Saturday.

Coach Gayle left for his home in Springfield, Ill., Saturday night.

## OTHER COLLEGE GAMES.

Olivet, April 18.—Olivet 8, Normal 7.

South Bend, April 18.—Notre Dame 4, U. of M. 2.

Chicago, April 20.—Beloit 5, U. of M. 2.

Evanston, Ill., April 23.—U. of M. 7, Northwestern 2.

## Our Societies.

## ECLECTIC SOCIETY.

Friday evening, April 22, the "Tics" gave an informal hop and entertained the Phi Delta Theta Fraternity. The hall was tastily decorated with American flags, and the Columbian rooms were used as reception rooms. Among the thirty couples present were Warren Foster and Mr. Perry of the U. M.; also Oscar Gorenflo, with '97, and "Carnie" Chapin, with '97, M. A. C., now of the U. of M.; Chas. Herrmann, '97, and F. Longyear, with '00. Rollo Baker furnished music, and Mrs. Bacon acted as chaperone.

W. C. Stebbins, '95, now principal of New Troy schools, has received an increase of \$100 per year in his salary. In June he will take a bicycle trip to Nebraska.

Fred Kramer, with '97, W. W.

Taylor, with '96, and Wm. An-  
sorge, with '95, are members of the  
Grand Rapids battalion, and they  
announce their next address as  
Havanna, care Gen. Blanco.

J. N. Goodrich, Jr., with '97, is  
studying law with Parker & Bur-  
ton of Detroit.

Bert Pond, with '97, is in the real  
estate business in Detroit.

Arthur Eldridge, with '99, has  
charge of the sounding and platting  
in the government works at Buf-  
falo.

To the old "Tics" who may see  
this we would say—We have  
twenty-four active members, our  
literary work is up to the old stand-  
ard of by gone days, and "Ticdom"  
presents a bright interior and prom-  
ises a prosperous future.

G. B. WELLS.

**Sister Cuba.**

C. E. PARSONS, '01.

Lo! —'Tis our flag that's floating  
By Cuban shores. And those distant  
seas,—

Hear they not the pealing rifle,  
Speaking sharp above the breeze?  
Another note of Freedom,—  
Has it rung upon the air?  
Yes! Grim in cadence, sweet in comfort,  
To the sister in despair.

Boys! We cheer for home, and Cuba  
While these war clouds roll amain!  
Boys, for men we cheer, and Patriots,  
Who dare fight, that Peace may reign.  
May the Father of the nations  
Keep his soldiers as they go  
True to their country, to their manhood;  
Strong, to humble Cuba's foe!

**At College.**

The first oats were sown April  
16th.

Dr. Oscar Clute left for Buffalo,  
N. Y., last week.

Mrs. Gunson entertained a few  
friends Thursday evening.

Dr. Kedzie has been suffering  
from a very severe cold during the  
past week.

Mr. Percy Holdsworth from Ann  
Arbor, is visiting Prof. and Mrs.  
Holdsworth.

Prof. Mumford was called home  
on Friday, April 15, by the serious  
illness of his father.

Miss Edith Merrill entertained  
her friend Mrs. Mattie Garbed of  
St. Louis Saturday and Sunday.

The cold snap the first of the  
month did not injure the early sown  
clover seed as much as was feared.

"Missionaries in China" is the  
topic for the Y. M. C. A. meeting  
next Sunday evening. Leader, Mr.  
Beal.

Saturday morning W. S. Thomp-  
son, '01, received a telegram from  
Manistee ordering him to join his  
company in Lansing on its way to  
the front.

Around the library and horticul-  
tural laboratory the beautiful lawn  
is being dug up to make room for  
fancy shaped beds of flowers and  
shrubbery.

Mrs. Weil, who has been confined  
at the city hospital from an opera-  
tion performed last Monday, is  
reported as improving as rapidly as  
could be expected.

State Secretary of Y. W. C. A.,  
Mrs. Carey, led the meeting last  
Wednesday evening and after the  
meeting she met with each commit-

tee and suggested new ideas to fol-  
low.

Eight student are doing thesis  
work in the botanical department.  
They are Misses Anna Watkins,  
Marie Belliss, and Bertha Baker,  
and Messrs. E. A. Calkins, W. R.  
Kedzie, M. H. Lapham, H. C.  
Skeels and A. M. Patriarche.

It was with deepest sorrow that  
College people learned Wednesday  
of the death of Mrs. Jane C. Deal  
nee Sinclair, our former librarian.  
Mrs. Deal died Tuesday evening at  
her home in Jonesville, after an ill-  
ness of three weeks with influenza.

Thomas Durkin resigned his posi-  
tion as foreman of the Horticultural  
department last week. Yesterday  
he left for his former home at Ge-  
neva, New York. For four years  
Mr. Durkin has performed the duties  
of his position with credit to himself  
and the department.

Sunday April 17, Mr. A.H. Rogers  
died at his home in Grand Rapids.  
Mr. Rogers had quite a number of  
friends at M. A. C. where he was  
for some time assistant florist. He  
left here to accept the position of  
florist at the Industrial school where  
he remained until Bright's disease  
compelled him to give up his posi-  
tion and return home.

**Athletic Benefit.**

Next Friday evening the two  
ladies' societies of the College, the  
Feronian and Themian, will unite  
in an entertainment in the Armory  
for the benefit of the athletic asso-  
ciation. The chief feature of the  
entertainment will be a basketball  
game between the two societies.  
Exhibition drills in gymnasium ex-  
ercises will also be given. An ad-  
mission of 15c will be charged.

**M. A. C. to the Front.**

The leading educational journal  
of the State, *The Michigan School  
Moderator* speaks of this College  
in the following complimentary  
words:

"It is probably true, that the Mich-  
igan Agricultural College was never  
before in better shape to do fine  
work than now. For beauty of  
campus, for healthfulness of loca-  
tion, for completeness of plant, and  
for earnest and competent teachers  
we put up the M. A. C. against the  
country."

**Made in America.**

The above was the subject of the  
patriotic and inspiring talk given by  
H. R. Pattengill in Chapel Sunday  
morning. A verse from the thirty-  
third Psalm was taken as his theme  
—"Blessed is the nation whose God  
is the Lord; and the people whom  
He hath chosen for His own inheri-  
tance." The speaker found many  
indications of God's favor in Ameri-  
ca—the rapid growth in manufac-  
tures, in literature, art and educa-  
tion. Our system of government is  
an American product—made in  
America,—so too is our school sys-  
tem. "The morning school-bell of  
America encircles the day, and it is  
a sweeter sound than the drum beat  
of England." The address was just  
such a one as would inspire any  
young man or young woman to pat-  
riotic feelings.

The United States is the only na-  
tion in the world that spends more  
money on education than on war  
equipments.—*Ex.*



Sweaters do not make the  
man but one of those nice  
striped ones adds greatly to his  
appearance. They are not  
alone pretty, but comfortable,  
durable and medium in price.  
Come in and see them while  
the assortment is complete.  
Nice line of golf stockings,  
bicycle suits. Just received a  
large consignment of high grade  
mackintoshes at the lowest  
prices ever made on good  
qualities. Can save you money  
if you want a spring overcoat.



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SHOES.**

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nothing adds so much to a man's appearance  
as comfortable, stylish shoes.

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Shoes are particularly desirable this season.  
Made in fine soft Kid and Russia Calf, all  
the latest styles.

The M. A. C. Shoe Store.

**G. D. WOODBURY.**

103 Washington Ave. So.

News From Graduates.

Rev. A. T. Cartland, '97, spent Monday and Tuesday at the College.

C. B. Smith, '94, Washington, D. C. expects to spend next year in some German university.

E. E. Gallup, with '96, came up from Ann Arbor Friday evening and remained part of Saturday.

A bulletin on Ginseng Culture by M. G. Kains, '95, has been issued recently by the U. S. Department of Agriculture.

Mr. and Mrs. R. M. Kedzie spent their honeymoon in Lansing. Mr. Kedzie is employed in the Grand Haven National Bank.

Commissioner Hale ['93] of Ionia, is out early with a remarkably full premium list for school work at the county fair.—Moderator.

C. B. Collingwood, '85, city attorney in Lansing, has just won an important contested election case before Judge Person, for Mayor-elect Davis.

W. K. Prudden, '78, is now soliciting contracts with vehicle manufacturers, in order to reopen the Michigan Wheel Company's works in Lansing.

It is reported that V. V. Newell, '94m, has left the Worthington Pump Company and entered the employ of the Deane Pump Company at Holyoke, Massachusetts.

Since going to Holland, G. N. Eastman, '97m, has secured a position with the Chicago Edison Co., the largest electrical concern in the West. He rooms with Messrs. Hoyt and Barnay.

The alumni library is in receipt of the recently published pamphlet from the Smithsonian Institution, on "American Leaf-hoppers of the Subclass Typhlocybinae," by Prof. C. P. Gillette, '84, Colorado.

W. F. Hopkins, with '93m, bookkeeper in the City National bank of Lansing, has offered his services to Lieut. M. E. Cooley of Ann Arbor, who is raising a company of 100 mechanical engineers.

E. Dwight Sanderson '97, who has been at Cornell since graduation, has accepted the position of assistant entomologist in the Maryland Agricultural College at College Park, eight miles from Washington.

J. J. Bush, '84, who has been traveling for the Kalamazoo Buggy Company, has been called into the office to work on the books while the company catches up with back orders. Too much business is the trouble.

Elwood Shaw, '97, writes that he has been teaching at Gilford since last September, and although not making much money, he has been getting good training in the theory and art of teaching. He received notice recently that he had been appointed principal of the Tuscola village school, for next year.

Colleges and Exchanges.

The U. of M. calendar shows an enrollment of 3,223 students.

No college in England publishes a college paper or has a college yell.—Ex.

Williams is to have a new Y. M. C. A. building given by its alumni, which will cost about \$35,000.

The American association for the

advancement of science will meet this year in Boston on August 22, when the fiftieth anniversary of the founding of the society will be celebrated.

The junior engineers in the U. of M. will take a trip east in the spring recess under the guidance of Mr. Allen, of the engineering department, to visit important works and plants connected with their studies.

President Gates, of Amherst, has been granted a year's leave of absence by the board of trustees. He will spend the time enjoying complete rest in Europe, his health being much impaired through overwork.

President Harper, of Chicago University, says that of five deaths at the University in the last five years, three were directly traceable to starvation due to the poor food supplied in the neighborhood to students.

Cambridge University has sent an expedition to the East Indian Archipelago, with the object of investigating the physical characteristics of the natives of that region, their mental conditions, customs, amusements, songs and language, as affected by the geographical environment.

The negotiations recently carried on between the corporation of Harvard University and the trustees of the Massachusetts Institute of Technology for the amalgamation of the two institutions have come to an end. No feasible scheme could be agreed upon and the matter has been entirely dropped.

The Wandering Singer and His Songs.

One of the handsomest College souvenirs ever published is the book of poems by Frank Hodgeman, '62, of Climax, entitled "The Wandering Singer and His Songs and Other Poems." The book is bound in pebbled white cloth with blue and gilt trimmings, contains 185 pages, and is printed on excellent paper with full gilt edges. It is beautifully illustrated with half-tones of College and other scenes and with sketches by Prof. W. S. Holdsworth, '78, and E. N. Thayer, '93. In that part of the book devoted to College poems there is hardly a page that does not suggest sweet memories of days gone by, not only for the student of the sixties but for the student of the nineties as well. Everybody who has seen the work is delighted with it.—M. A. C. RECORD, Feb. 8, 1898.

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