THE INFANT SCIENCE.

Dr. E. A. ANCE.

The above title is often applied at this time to Bacteriology, of course, on account of its extreme youth, for it has only been regarded in the light of a separate science for about ten years, and even its existence, as such, notably to the meritorious efforts of Louis Pasteur, a French chemist, and Robert Koch, a rural physician of Germany.

From an historical point of view it may be said to date back about 200 years, when a Hollander, by the name of Leeuwenhoek, in 1680, discovered through the aid of lenses, serpentine looking objects in the saliva of the mouth, which are supposed to be bacteria seen by man. But little importance was attached to this discovery, and owing to the imperfect instruments which were used at that time, little progress was made in this kind of investigation. It is "as not until about a hundred years after, that really progressive work in this line was inaugurated, when much was done to stimulate investigation, by Linnæus, the great botanist. About this time also, the idea seems to have dawned upon Plenczi, of Vienna, that diseases originated from specific causes, for he reasoned that as plants and trees each had their specific seeds or germs to grow from, so might diseases have each their own specific seeds or germs to cause them: and the followers of Plenczi tried for a long time to connect the microscopic objects which were being discovered at that time with the diseases, but the proof of the theory could not be established, and the many germs which were embraced by the science of Bacteriology did not produce microscopic curiosities, as far as disease is concerned, until a comparatively recent date. Indeed it was not until 1855 that a connection was shown between these organisms and disease was established.

At this time Pasteur practically restored the silk worm industry to France, through his brilliant scientific investigations into the cause of a silk worm disease called pedunculatus, which killed the worms and caused the industry to sink into insignificance, thus predicting national disaster for many years, or until it was successfully combated and exterminated by the above savant. It was done by patient and careful investigation leading to the discovery of the cause, which proved to be a certain bacterium, which were afterwards kept away from the worms, or rather the silk worms were kept away from them, and by this means health was maintained.

Owing to the important role which these minute objects, bacteria, play in the romance of disease, they have been studied. Some germs attack a man or animal, as the case may be, and cause the creature to become sick, perhaps by forming a poison in the interior of the body, which will interrupt its vital processes, thus bringing about its destruction, or illness in the animal. The germs which cause anthrax and typhus are instances of such germs.

As an illustration, let us briefly inquire into the causes of some of those which have been most studied. Some germs attack a man or animal, as the case may be, and cause the creature to become sick, perhaps by forming a poison in the interior of the body, which will interrupt its vital processes, thus bringing about its destruction, or illness in the animal. The germs which cause anthrax and typhus are instances of such germs.

Another group of Bacteria may produce a poison with out ever entering the body of a man or animal, but abound in material which people eat; and thus we get poisonous cheese, poisonous sauce, poisons ice cream, as well as other things commonly eaten as articles of diet. Surely this is in itself a plea for the study of Bacteriology by those who prepare and handle the food of the people, for if, as we firmly believe, the doctrine of spontaneous generation is a delusion, then there is a work to be done, and while Indoors spent most of the time in the general Museum, the Zoological Laboratory, and the Botanical and Veterinary departments. Other branches of science were well represented, and many members were well pleased to welcome to the grounds Dr. A. C. Lane, of Huntington, Asst. State Geologist; Dr. Henry R. Baker, late assistant state geologist; Dr. E. H. Fisk, of the Michigan Geological Survey; as well as representatives from Ann Arbor, Ypsilanti and Detroit.

The selection of twelve new members the business meeting was adjourned, and the members scat tered to examine subjects of special interest in various parts of the grounds. The next regular meeting, the annual meeting for the presentation of scientific papers, will be held at Ann Arbor in April, 1897.

ENTOMOLOGICAL NOTES FOR THE WEEK.

E. C. DAVIS.

According to letters received from Jackson, Livingston and Allegan counties, there has been this week, grasshoppers are appearing in swarms and doing much injury to crops. They are migrating from the pastures to the towns and schools, and the Allegan county, are advancing on the peppermint fields. Gardens and small fruit patches are also being stripped. The hopper diner, where practicable, and sweet corn containing arsenic, have been recommended as aids in protection.

Dr. Snyder, of Grand Rapids, sends us specimens of a family of butterflies, which he says are killing and feeding on the cabbage butterflies in his garden. A fly that will destroy the images of our cabbage moths has been reared by him, but he says, however, is not entirely beneficial, as the larvae of it feeds on the roots of the radishes. The whole family of "sage促" peppers has been, and must be kept in a similar manner. A recent record states that a single individual killed 141 honey bees in one day. From Charlotte come samples of the raspberry cane gitter, Gloría Minorwite, with grated rose and many berry shoots. Much harm to the new growth is reported. The cane-gitter deposites eggs in the tender

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It would be interesting to follow some of these germs through special branches of their life history, and thus more emphatically illustrate the practical importance of the subject, would time and space permit.

VOLUME I. LANSING, MICHIGAN, TUESDAY, JUNE 18, 1896. NUMBER 22.

EDITED BY A. H. HENSON AND E. B. BAYLEY.

THE M. A. C. RECORD.

FIELD MEETING OF THE MICHIGAN ACADEMY OF SCIENCE.

W. R. BARROWS.

A goodly number of the members of the Michigan Academy of Science gathered at the College on Friday and Saturday to enjoy the second annual field meeting of the Academy. The weather was perfect and the College campus was in better condition, nor was imperceptible by more appreciative visitors. A majority of them were more interested in the College at the time than in the following morning, and while indoors spent most of the time in the general Museum, the Zoological Laboratory, and the Botanical and Veterinary departments. Other branches of science were well represented, and many members were well pleased to welcome to the grounds Dr. A. C. Lane, of Huntington, Asst. State Geologist; Dr. Henry R. Baker, late assistant state geologist; Dr. E. H. Fisk, of the Michigan Geological Survey; as well as representatives from Ann Arbor, Ypsilanti and Detroit.

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shoot, then girdles the bark about half an inch above and below. This causes the top of the plant to wilt and die, the remaining saplings being crushed by the rapid growth of the shoot.

**Experimental Station.**

**AT THE COLLEGE.**

Making hay from tall oat grass began on the farm last week.

Mrs. Mary E. Green, M. D., visited her daughter at M. A. C. last Thursday.

F. M. Van Auken, ’86, as well as F. M. Van Auken, went to Allegan last week to attend the wedding of a sister.

The last summer’s crop of orchids, which appeared last summer, is soon to mature in the greenhouse.

H. L. Becker, ’98, has been ill for a week with pleurisy. He has been quite low, but is now slowly improving.

W. F. Fox, president of the Fox Machine Co., Grand Rapids, made a thorough inspection of our shops a week ago yesterday. He was most enthusiastic as to the work of the winter’s institute in Grand Rapids.

Fortunately, daisy nature has so far this year attended well to the sprinkling of strawberries, lettuce, radishes, and other vegetables, so that he has been thoroughly pleased with the College for irrigation has scarcely been needed.

As frequently happens they drive for a considerable distance all. Let us make the best use of our opportunities.

We have just received Bulletin No. 1, new series, with the heading given above. It is well illustrated, and is designed to make the reader an accomplished amateur, whose acquaintance with the subject is limited. He notices the several species and races of honey bees and the relative profits of selling milk and eggs, the best plants for producing honey, kinds of hives, etc., etc.

**FROM CORNELL.**

The following extracts from a private letter to me:

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**THE M. A. C. BECOKD.**

JUNE 16, 1866.

By F. R. Benton, B. S. ’79, M. S. ’86.

The following is the list of seniors for this year with the titles of their theses:

- W. T. Everman, "Bacteria of the soil."
- J. T. Berry, "The amount of lime sulphate washed from diatomaceous earth."
- R. A. Board, "Feeding pigs to determine the relative values of corn and peas for feeding purposes."

From an essay on the cultivation of the black-eyed pea from saw-mills to determine their value as fertilizers.

- R. A. Board, "Feeding pigs to determine the relative values of corn and peas for feeding purposes."

From an essay on the cultivation of the black-eyed pea from saw-mills to determine their value as fertilizers.
The chief glory of a park or the surroundings of a house are trees and grass, and now on the Campus of M. A. C. we have them both in great profusion and luxury. The area of that portion of "the state farm," as some of our older friends still call it, which contains the buildings, consists of about one-hundred acres. The surface is gently rolling with the Red Cedar river on the south. The stream was long since deprived of its floodwood, the banks cleared of old logs and rubbish, leaving nearly all the woody growth as nature planted. A good many native trees of the original "old opening" are still standing when the wild land was purchased for the use of the college. While large numbers of trees and shrubs, both native and exotic, have been planted. In many places some of the trees which they always should be if removed at all before they were spoiled by crowding, while in certain other places groups have been allowed to grow with wild profusion. Broad open areas are seen here and there, suitable for play grounds and views of buildings, but every year some favorite tree-tops narrow the openings. Unquestionably the most enduring and valuable trees for planting are those found in our own country, most of which are natives of our own state. We have in the state nearly seventy varieties of native trees as many shrubs, all of which deserve notice for parks of considerable size. One of the attractive features of the Campus is the thrifty trees in many kinds, not all sugar maples and American elms which too often are the only ones selected as all suitable for planting. A great advantage of the older exotic trees on the Campus are falling in one way or another. Most of the American pines and Scotch pines, so often purchased of nurserymen, though only twenty to thirty years old, have become slender and have been cut down. The white birch of Europe, including the cut-leaved weeping variety, are dead or dying; European larches are failing; many Norway spruces are past their prime. These trees have had good a chance as we were able to give them here, in soil and exposure of great variety. The grass is frequently mowed and that near the building is kept closely cut. There are some two miles of drives and two or more of paths, the latter covered with artificial stone. The area of that portion of the Campus is kept closely cut. There are some two miles of drives and two or more of paths, the latter covered with artificial stone. Those of Hunnewell and of Sargent in Massachusetts are those of Hunnewell and of Sargent in Massachusetts. No one claims that our Campus is kept as well as those of Hunnewell and of Sargent in Massachusetts. No one claims that our Campus is kept as well as those of Hunnewell and of Sargent in Massachusetts. No one claims that our Campus is kept as well as those of Hunnewell and of Sargent in Massachusetts. No one claims that our Campus is kept as well as those of Hunnewell and of Sargent in Massachusetts. No one claims that our Campus is kept as well as those of Hunnewell and of Sargent in Massachusetts. No one claims that our Campus is kept as well as those of Hunnewell and of Sargent in Massachusetts. No one claims that our Campus is kept as well as those of Hunnewell and of Sargent in Massachusetts.
The M. A. C. Record.

Ferdonian Society.

It was in the spring of 1893 that the project of a ladies’ society at the College was first talked of. At first all were skeptical as to the success of the plan, but with the persistence of a few, the movement gathered head, and on March 20, 1891, a permanent organization was effected, with eighteen charter members. Mrs. Fred Hillman, '91, was unanimously chosen first president.

Through the kindness of the Union Literary Society, we were enabled to hold our meetings in their pleasant and cheerful rooms, and the society has lived and flourished and, while it has not been possible to grow much in numbers, the quality of the work done has been with the society increased.

It has been about two years before we were recognized by the other societies as an organization that had come to stay, but we are now received on equal footing with the other clubs.

With the advent of the new year and the ladies’ course, we look forward to having new strength and vigor that work is done in this literary study and further forward on the road to success. But, however this may be, we may well be proud of the fact that the small number of ladies that have been in attendance at the College, we have supported a society of which we have no cause to be ashamed.

The University of Idaho graduated four at its first annual commencement last week. We acknowledge with thanks the receipt of her announcement.

Our exchange list already includes nearly two hundred local papers of this State. These papers are filed by counties in a full file in the College Library, and are highly appreciated, especially by students, who find in the list the papers of their own locality. Usually, the first thing a student does upon entering the library is to seek for his home paper, while the familiar names and accounts of events around home, serves as well, in some respects, as a weekly visit from home. When this is not possible, his solution may be a letter home, or from some fellow playmate’s sister.

What school to enter, or what course of study to pursue, are questions which very often worry and perplex the young man who has an ambition to get on in the world. He does not know what he was born for, but he knows that if he were educated, he would have a purpose in life. And the purpose is to be patient, persistent, determined, devoted to the study of the work. We need a suitable place for such work and a competent person to direct it the year round. The College has no right to depend in this matter exclusively on the enthusiasm of the students. They are given a proper and legitimate field of College work, and the College which neglects it is not doing its whole duty to its students. Let the student seek to learn by our example and at least there has been a painful one, but it will not have been too costly if it teaches students and College authorities alike, to see our faults and mend our ways.

The other criticism is that it shows a lack of good taste, and a marked want of good form. The other criticism is that it is not in good taste for a school, any more than a private family, to be out of uniformity in feeling and action on questions connected with Field Day affairs, when they come before the various faculties for adjudication.

It is for this reason that much of our best Western society has a club of its own. It is a sort of social organization of representatives from the faculties of the different Colleges constituting the association, and it is in the nature of a sort of subscription list, to which each member subscribes. It is essentially an educational institution and action on questions connected with Field Day affairs, when they come before the various faculties for adjudication.

To what extent such a body will operate under the present organization of representatives from the faculties of the different Colleges, and whether such a body will be required to use daily, will be determined by the character and the constitution of the school in which the society is located. It is here that the study of noted writers, besides declamations, essays, stories, and verses, is one of the most important duties of the work. It is by such a training and demand on the part of the student that a good taste has been made upon the Field Day program.

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We gratefully acknowledge the receipt of the Hesperus Box, from its author, Frank Benton, '79, for our alumni library.

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ness meeting, which is conducted according to “Rob-
erts’ Rules of Order.”

Much practiced knowledge regarding parliamentary
proceedings and extemporaneous speaking is obtained
from this session. Visitors are always welcome at the
literary meeting, which begins at 7:30 p. m., dur-
ing the summer term, and at 7 p. m. during other
times.

TAU BETA PI CONVEXIT.
C. C. PASHBY.
The annual convocation of Tau Beta Pi Association
for ’96 was called at Buffalo, N. Y., May 33, and a
word concerning the society, in addition to the men-
tion to be found in the Speculum (summer of ’95)
and elsewhere, may not be out of place at this time.

It should be understood that the object of the asso-
ciation is to foster superior scholarship and liberal
education in the technical schools of the United States.

To this end it draws its active membership only from
those who have shown by their attainments during
the under-class men years of their course that they are
intellectual leaders among their fellows. Thus, so it
will appear, the success of the society must be con-
tingent upon the prosperity of the Colleges in which
it has chapters installed. Large classes of energetic
students permit a strong, enthusiastic membership.

This reverts to the farther advantage of the home of
the chapter by furnishing a goal towards which all
enterprising students push, but which only a limited
number can enter.

The past year has been one of general growth and
prosperity. A signal victory was won before the facul-
ty of the Purdue University, by the Indiana Alpha
Chapter, in the permission to hold their meetings on
the College campus, a privilege denied to fraternities
not honorary in their character. A chapter has been
installed at Stevens’ Institute of Technology, and the
presidents of Lehigh University and University of
Purdue have accepted honorary membership with the
Pennsylvania Alpha chapter.

The most urgent need of the association at present
is a method of choosing candidates for membership
that will be at once easy of application and unques-
tionably just to all upper classmen in those institu-
tions where the percentage system of marking still
obtains.

The reports from the chapters gave promise of con-
tinued growth and usefulness during the coming year.

Mathematical Department.

The following reminds us of the man who could lay
style on the eye. He didn’t want any man with a level
at work for him:

“Only a short time ago on a piece of road im-
provement near Grand Rapids, through a very level tract,
the cost of drainage was a very important consid-
eration and the property owners had not attempted the
improvement owing to the heavy outlay needed to
get rid of the water. After many years of discom-
fort a surveyor was employed and it was found, con-
trary to the emphatically expressed convictions of all
the neighbors, that the water could be drained off
very cheaply. They declared it would be forced to
to flow up hill. The drain, at slight cost, was turned
through a culvert at what had been supposed to be the
topmost part, but the water flowed readily that way.

The surveyor’s level decided this and not only saved
a lot of money, but secured an immediate improve-
ment that otherwise would have still longer ne-
duced.”—Hon. C. W. Garfield, ’70, in

HARDING HOUSE.
Near Entrance to College Grounds.

FURNISHED ROOMS
FOR STUDENTS.

Ice Cream Soda, Confectionery, Fruits, Station-
ary, Necessities, etc.

Phone 192. New Phone 76.

J. G. REUTTER,
322 Wash. Ave. S.

FRESH and SALT MEATS

An Excellent, Well-Assorted
Stock of . . .

MEN’S WEAR

can always be found at the

Boston Clothing Store,

How is This?

SUITs MADE TO ORDER

For $15.00

AND UP.

Come and Examine our Goods and Get Prices. They will

Woodbury & Savage,
The M. A. C. Record

JUNE 16, 1886.

The Farm

...Department

Offers for sale the following head of live stock:

Owing to the crowded conditions of the stables these animals will be sold cheap.

Niu Yearling Shropshire Rams out of thoroughbred ewes and by a prize Shropshire ram.

Poland China and Duroc Jersey pigs of both sexes.

These Animals will be registered, transferred and placed on board cars at Lansing on receipt of price, which will be given on application to

CLINTON D. SMITH, Director and Superintendent of Farm.

Agricultural College, Mich.

THE MAPES

CLOTHING CO.

207 & 209 WASHINGTON AVE. S.

When young man's fancy lightly turns to thoughts of duck trousers, vacation, and all that sort of sunshine' loveliness, he should direct his steps towards our store, where we make a specialty of

 MID-SUMMER CLOTHING

AND BICYCLE SUITS.
NEWS FROM GRADUATES AND STUDENTS.

Report has it that W. Chase, '99, will return to M. A. C. next term.

O. B. Hall, '95, will graduate from Detroit Medical College this month.

Harry Goss, '95, expects to make a bicycle ride to M. A. C. next week.

J. McCurdy, '98, was recently appointed Professor of Chemistry at University of Idaho.

Lee Chapman, '01, who did not return this term, is very sick at present with rheumatic fever.

S. P. Orth, with '94, gives the Class Intemperance on the occasion of his graduation from Oberlin next Tuesday.

J. W. Porrigo, '90, is in the draughting room of the Western Electric Co., Chicago, and resides at 382 Jackson Boulevard.

Joseph Foster, '90, assistant to Dr. Currow, of the U. of. M., came to Lansing last week and operated on the eyes of several of the students at the School for the Blind.

J. B. Phillips, with '80, Ann Arbor, through his article, Prosperity and Prices, has been awarded a $500 fellowship in Political Economy and Finance at Cornell University.

Prof. Smith called on Frank Hodgman, '92, Clinton, Mich., one day last week. Mr. Hodgman regretted very much that Memorial Day came on Saturday, so that he could not visit M. A. C. at that time.

Perry G. Towar, '88, is president and general manager of the Century Cycle Co., Y. M. C. A. building, 1421 and 1423 Franklin and Grand avenues, St. Louis, Mo. He writes to know if any M. A. C. alumni are coming to the National Republican convention.

A. E. Smith, B. S., '81, M. D., as reported in the Evening Herald, Ottawa, N. Y., succeeded in supplying an upper lip and a palate to a child born without these important organs. These operations in plastic surgery are very difficult and delicate, but in this case both were satisfactory in all respects.

News comes from Beltaine, Mich., that Dr. C. Y. Hinman [M. A. C., '78], formerly of Portland, was married June 3 to Miss Leola L. Hinsdell, of that town. Aside from caring for an extensive practice, Dr. Hinman is also associated with a brother of the bride, in the grocery business—Rice, Portland.

In Tus M. A. C. Reconv of April 26, mention was made of the candidacy of E. R. Lake, '85, for representative. The following from the Gazette, Corvallis, Ore., should be of interest: "E. R. Lake knocked the wind out of the big fusion proposition, and will ably represent Benton and Lincoln counties in the next legislature."

A. C. Burnham, '94, M. D., instructor in mathematics at the University of Illinois, writes a very encouraging letter. He has been granted a year's leave of absence to study in Europe. Tomorrow he sails from Baltimore, Md., for Bremen, Germany. He will spend one semester in Leipzig and one in Jutingsen. September of this year will find him in Switzerland; Christmas, in Paris; Easter, in Italy. His return trip will include a visit to England and Scotland. He says, "Long live M. A. C! We think more of her as the years go by."

The Record extends hearty congratulations to the writer of the following letter:

The school board here has been kind enough to raise my wages and to offer me the position of Science teacher in the schools here for next year. I have accepted and will remain here another year.

I was much pleased with the last issue of the Record and I was more than delighted with the announcement of the Women's Course, as I have an 89 lb girl, whom I wish to send to M. A. C., not next fall, but some time in the near future. She arrived on the 28th of last month and has decided to permanently take up her studies in Switzerland; Christmas, in Paris; Easter, in Italy. His return trip will include a visit to England and Scotland. He says, "Long live M. A. C! We think more of her as the years go by."

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Wishing M. A. C. and the Record abundant success, I am most truly yours, ROBERT S. WELSH, '94.

On May 14, 1888, a genuine tornado of limited extent started north of Lansing and continued north of east for several miles, coming within four miles of the College.

"President Willits hit the nail on the head, when in chapel recently he advised the students of this College to avoid unnecessary expenses, especially during commencement, when the tendency is to go to extremes in class dances, banquets, and other like indulgences."—Specialist, in 1885.

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