

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 11.

LANSING, MICHIGAN, TUESDAY, APR. 3, 1906.

No. 28

FARMERS' INSTITUTE CORN SPECIAL.

The Lake Shore & Michigan Southern Railway has consented to run a special train over its lines for the purpose of holding a series of railroad institutes. The train will consist of a passenger coach, in which the meetings will be held, and a baggage car for the apparatus and exhibits. At each of the meetings addresses will be made by Prof. C. D. Smith, Prof. J. A. Jeffery, and other members of the Agricultural College faculty. The principal topics that will be discussed will be "The Improvement of Corn," and "Better Methods of Corn Culture." In the baggage car there will be a corn exhibit, which will contain typical specimens of the different varieties of corn, and apparatus for testing the germination of seed corn.

Every person interested in corn culture should attend these meetings if possible, as statistics show that it should be an easy matter to add 50 per cent. to the average yield of corn in Michigan. Attend this institute and learn how to do it.

The "Corn Special" will leave Lansing at 8:00 a. m. April 9, and will stop one hour at each of the following points:

Dimondale	8:15 a m	April 9.
Eaton Rapids	9:30 a m	" "
Springport	10:50 a m	" "
Albion	1:00 p m	" "
Homer	2:15 p m	" "
Litchfield	3:45 p m	" "
North Adams	9:30 a m	April 10
Somerset	11:00 a m	" "
Brooklyn	1:00 p m	" "
Clinton	2:25 p m	" "
Tecumseh	3:40 p m	" "
Adrian	8:00 a m	April 11
Hudson	9:30 a m	" "
Hillsdale	11:00 a m	" "
Jonesville	1:00 p m	" "
Quincy	2:25 p m	" "
Coldwater	3:45 p m	" "
Bronson	8:00 a m	April 12
Sturgis	9:30 a m	" "
White Pigeon	11:00 a m	" "
Constantine	1:00 p m	" "
Moorpark	2:20 p m	" "
Schoolcraft	3:45 p m	" "
Cooper	8:00 a m	April 13
Otsego	9:20 a m	" "
Allegan	10:50 a m	" "
Hopkins	1:00 p m	" "
Byron Center	2:30 p m	" "
Grandville	2:45 p m	" "

L. R. TAFT,
Supt. Farmers' Institutes.

NONESUCH BROTHERS.

Next Saturday, April 7, the great consolidated shows of Nonesuch Brothers will again appear at M. A. C. bigger and better than ever. There will be a street parade soon after dinner which will be made a special feature. There will be two performances, one at 2:30 and one at 7:30 p. m. In the main show will be the menagerie, a first class burlesque entertainment, and the show will close with the regulation circus concert. The young ladies will serve refreshments of all kinds. Mr. Nonesuch, the manager and an-

nouncer, who made such a decided hit last year, will be with us again and this in itself is proof that the great show will be a decided success. A nominal fee of fifteen cents admission will be charged. Come out and enjoy the performance.

NOTICE.

There will be a meeting of the Chicago M. A. C. Alumni Association for dinner on April 7, at 7:00 P. M. The meeting will be at The Union, 117 Randolph. Price \$1.50 per plate. Information concerning any M. A. C. men who have recently moved to Chicago, will be gratefully received by Philip B. Woodworth, 5808 Ohio St., Chicago.

ATHLETICS.

The management will sell base ball season tickets, good for all home games for \$1.50. These will be in the form of coupon tickets similar to those used last fall. The schedule includes the intercollegiate games and two early practice games, making twelve in all. The schedule as arranged gives us some splendid games and the price of \$1.50 for the season is certainly very reasonable.

Considerable work has been done on the athletic field during vacation, which has resulted in placing the same in first class condition. The general plan of fencing, etc., has been changed a little, the track has been recindered and a new curve put in on the east end. Taken in all the field is in the best shape it has ever been.

COLLEGE MINSTRELS.

The minstrels, 16 in number, left the college Monday, March 26, for Williamston, where the first entertainment was given. The boys were well received here, encores being frequent. The next morning at 10 o'clock the company left for Grand Ledge where they gave a performance in the evening. They were at Belding Wednesday night and St. Johns on Thursday. Belding gave the best house of the four places and treated them royally. From St. Johns nearly all of the boys went to their homes to spend a few days before the opening of the college. The company reports a fine time and judging from press notices the trip as a whole was a success.

The company plans to give an entertainment Thursday evening in Lansing. There will be several additions to the program, more end men, a larger chorus and other attractions.

V. M. Shoesmith, '01, sends in his pledge for the memorial building and wishes the movement every success. He states that the Kansas Agricultural College is contemplating the erection of a Y. M. C. A. building.

FINANCIAL REPORT OF TREASURER OF Y. M. C. A.

RECEIPTS.

On hand April 1st, 1905	\$194 10
Subscriptions by the faculty	400 49
Dues and subscriptions by students	389 64
Bible study books	72 85
Advertisements in handbook and directory	42 00
Rent of rooms	30 50
Lakeside fund	37 25

Total \$1,166 83

EXPENDITURES.

Salary of general secretary	\$574 00
Loaned for Bible study books	87 70
Printing	63 75
Delegates expenses to Lakeside	70 00
Mission work	40 00
Incidental expenses of general secretary	30 10
International pledge	25 00
State pledge	25 00
Electric lights	22 10
Incidentals	13 33
Delegates' expenses to state convention	13 40
Janitor	12 50
Periodicals	5 25
Delegates' expenses to Geneva	5 00
Stationery	2 50

Total \$989 63
On hand March 23, '06 . . . 177 20

\$1,166 83

H. H. CROSBY, Treasurer.

Prof. Kedzie has recently received an interesting letter from A. N. Clark of Wallaceburg, Ont., who recently spent a week in the Cobalt Mining district. The land about Cobalt he states is taken up and held at high prices. The richest veins are in Cobalt and confined to a region about one by two miles. Outside of this the veins are very thin. He mentioned seeing a nugget in one of the banks 5 in. x 15 in. x 22 in. in size. The methods used in mining in that district are very crude as regards mechanical appliances. The face of the country is very rough, broken up by numerous small lakes. A railroad runs from North Bay, Ont., to Liskeard which, built and operated by the government of Ontario, is a model. Although the country traversed by this road is very rough and swampy, the bed is smooth. The coaches are comfortable and service good. The service given on this road was compared with that of some of the roads in the U. S. and Mr. Clark thought if government ownership made the difference, he was in favor of it. He closes by giving an interesting description of the towns about this mining district, the rapid rise in price of lands, and the crowded condition incident to the rush for the silver fields.

A card has been received which gives us the name of the very first man to enter the Michigan agricultural college. He is Mr. Seneca N. Taylor, a lawyer of St. Louis, Mo., with business address at Mechanics Bank building. Mr. Taylor entered from Oakland and was in college during 1857-58-59.

ALUMNI.

'78.

Mr. and Mrs. W. K. Prudden and daughters, Amy and Edwina, returned home Tuesday, March 27, after a seven weeks' stay in New Orleans and other points. They report an enjoyable time.

'99.

The church at Pontiac, Mich., to which W. Roscoe Kedzie was recently called as pastor, celebrated the 75th anniversary of its founding, Sunday, March 25. Mrs. Ella Kedzie has been spending the week with her son at the above place.

'79.

At a recent meeting of the M. A. C. alumni association in the west Cass Herrington with above class was chosen president, and L. G. Carpenter a member of the executive committee of three.

We are indebted to Prof. Holdsworth for the following: In my recent visit to Monrovia, (Cal.) a sanatorium for the treatment of tuberculosis, I met some M. A. C. men in whom the readers of your paper will be interested.

L. D. Remington, '89, is here with his wife, who is taking treatment at the sanatorium. Mr. Remington was president of the present senior medic. class at Ann Arbor, but suspended his university work to accompany his wife. He takes entire charge of their little daughter while Mrs. Remington is making a rapid recovery.

R. L. Reynolds, '95, has had a long fight with a complicated case of tuberculosis, but the chances are that he will entirely recover from the pulmonary trouble. He is looking well.

G. N. Eastman, '97, who was very seriously run down by hard work followed by a busy trip to Europe in the interest of his firm, is making substantial gains. There is no doubt of his final recovery.

W. J. Bailey, '01, who came out over a year ago with a serious case of pulmonary tuberculosis expects to leave the sanatorium soon with his case so well in hand that he can complete recovery elsewhere. At present he is doing a lot of photographic work. A prominent factor in these cases is the way in which the men study their conditions and follow to the letter the treatment marked out by the physicians.

A. H. Perry, with '78, and his family are living in Los Angeles where they have been for some time on account of the ill health of some of the children. Mr. Perry is largely interested in land in New Mexico.

B. H. Holdsworth with '03, and his wife Maud Hagadorn, with '05, are settled in Los Angeles. The stork visited their bungalow a few months ago and left with them William Harold.

Percy Tallant, with '08, entered Leland Stanford after the holidays. He expects to pass up in all subjects taken at M. A. C.

THE M. A. C. RECORD.

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COLLEGE YEAR BY THE
MICHIGAN STATE AGRICULTURAL COLLEGE

B. A. FAUNCE, MANAGING EDITOR

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about taking the paper from the post-office, for
no charge will be made for it. The only way,
however, to secure the paper regularly is to sub-
scribe.

TUESDAY, APR. 3, 1906.

ROSTER.

Following is a roster of the vari-
ous societies, associations and clubs
for the spring term. These are
arranged alphabetically and will it
is believed be of use to students and
others desiring to refer to same:

ALPHA ZETA.

M. J. Dorsey Chancellor
F. A. Farley Censor
E. J. Krause Scribe
T. H. McHatton Treasurer
F. A. Farley Chronicler

AURORIAN.

G. A. Brown President
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R. L. Pennell Sarg't at Arms

COLUMBIAN.

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W. E. Piper Vice President
J. V. Sheap Secretary
H. A. Orvis Treasurer
G. H. Allen Marshal

ECLECTIC.

J. H. Taylor President
O. C. Post Vice President
G. Verran Secretary
A. C. Pratt Treasurer
L. C. Reynolds Marshal
G. B. Hayes Librarian

ERO ALPHIAN.

Lora M. Hyde President
Lelah Burkhardt Vice President
Olive Graham Secretary
Shirley Gardner Treasurer
Katherine Koch Marshal
Alzina Holmes Record Editor

EUNOMIAN.

H. C. Bucknell President
L. B. Westerman Vice President
E. I. Wilcox Secretary
R. V. Tanner Treasurer
A. E. Falconer Record Editor
E. E. Kurtz Marshal
H. Shull Warden

FERONIAN.

Florence Case President
Maud Ferguson Vice President
Helen Hyde Secretary
Carolyn Ellsworth Treasurer

HESPERIAN.

R. C. Graham President
W. E. Wilson Vice President
E. J. Shassberger Secretary
T. H. McHatton Treasurer
A. J. Carpenter Registrar
D. E. Frazier Marshal

OLYMPIC.

H. L. Francis President
W. J. Kingscott Vice President
J. W. Wilbur Secretary
W. H. Parker Treasurer
F. K. Webb Marshal
P. H. Shuttleworth Record Editor

SENIOR ENGINEERING SOCIETY.

W. J. Kingscott President
A. Markham Vice-President
G. W. Hebblewhite Secretary-Treasurer
H. L. Francis RECORD Editor

SORORIAN.

Zae Northrop President
Lena Morris Vice President
Theo Goodwin Secretary
Irene Way Treasurer
Zoe McConnell Marshal
Calla Krentel Cor. Secretary

THEMIAN.

Helen Andrews President
Ruth Dalzell Vice President
Hazel Dawson Secretary
Belle Hubbard Treasurer
Katherine Collins Marshal
Neina Andrews Record Editor

UNION LITERARY.

H. C. Salisbury President
O. K. White Vice President
J. V. Gongwer Secretary
M. F. Johnson Treasurer
E. A. Willson Janitor

ASSOCIATIONS.

Y. M. C. A.

O. K. White President
B. G. Campbell Vice President
I. E. Parsons Rec. Secretary
J. A. Cavanagh Cor. Secretary
E. P. Robinson Treasurer

Y. W. C. A.

Florence Barlow President
Mary Pratt Vice President
Mabel McDowell Secretary
Zoe McConnell Treasurer

ATHLETIC ASSOCIATION.

K. B. Stevens M. I. A. A. Director
W. H. Small Baseball Manager
Frank O'Gara Football Manager
W. D. Frazer Track Manager
L. B. Westerman Tennis Manager

DEBATING CLUB.

E. A. Willson President
O. W. Stephenson Vice President
H. G. Stone Secretary
E. H. Ryder Critic

FARMERS' CLUB.

E. A. Wilson President
Geo. A. Brown Vice President
G. W. Smith Secretary
R. E. Cooper Treasurer
L. C. Reynolds Rec. Secretary

FORESTERS.

C. M. Granger Chief Forester
Walter Hopson Assistant
Francis Kiefer Chief of Records
John A. Mitchell Ranger

HORT. CLUB.

O. I. Gregg President
H. Shull Vice President
R. L. Peanell Secretary

Walter Stanton was a college
visitor yesterday, took his last ex-
amination and went home feeling
happy.

The quarantine has been removed
from the home of Dr. Dandeno in
the city and he is again with his
classes. His little son who has been
ill with scarlet fever has entirely re-
covered.

C. G. Woodbury who has been
doing graduate work in Horticulture
and Entomology has accepted a
position as assistant horticulturist in
the Experiment Station of Purdue
University. He will enter upon his
duties June 15. Mr. Woodbury
will be assistant to Prof. Troop, M.
A. C., '78, and being the only assis-
tant will have every opportunity for
advancement.

GIGANTIC INDUSTRIES IN
THE INTERESTS OF
AGRICULTURE.

Every farmer knows how essen-
tial potash is for the growth of his
crops, and he looks toward keeping
up the supply of potash on his farm,
but not every farmer is aware of the
fact that in Germany there are vast
beds of this potash salts, so neces-
sary for the growth of plant-life.

These beds of potash salts origi-
nated untold ages ago we are told
by geologists, in large inland seas,
somewhat resembling the Dead sea
as it is at present, but on a much
greater scale. For thousands of
years nature's forces worked slowly
but surely dissolving, transporting,
concentrating and depositing masses
of rock salt, potassic minerals, and so
forth, from which Germany now re-
moves material at the rate of
4,000,000 tons per annum, without
any apparent diminution of the sup-
ply. But whence go these millions
of tons of material? For the most
part into the production of potash
manures, now so largely used in
farming, fruit and vine growing all
over the world.

In satisfying the home and foreign
demand for these manures there is
employed in the potash mines and
chemical factories of Germany an
army of over 14,000 men guided by
several hundreds of highly trained
surveyors, engineers, physicians, and
chemists. Year in and year out
lands are surveyed, works planned,
shafts sunk, and mines developed;
steadily the scientists go on solv-
ing problems and overcoming diffi-
culties in concentrating and purify-
ing the salts; day and night the
miners and laborers toil, drilling,
blasting, hewing and loading; while
in a never ceasing stream the buck-
ets creak from shaft to factory with
their loads of salts, and return from
factory to shafts a d all in order that
men may make two blades of grass
grow where but one grew before.

What this may mean for the
Michigan sugar beet industry, only
the future can tell, for the sugar
beet above all other crops is in need
of potash.

Another great industry, and sec-
ond only to the potash mine of Ger-
many, is the Saltpetre or Nitrate of
soda works of Chile, which are
quarries rather than mines. This
substance is found over a narrow
strip of land on the plain of Tarna-
rugal, in the northern provinces of
Chile, between the Andes and the
coast hills. In this rainless district
for countless ages the continuous fix-
ation of atmospheric nitrogen by
the soil, its conversion into nitrate
by the slow transformation of billions
of nitrifying organisms, its combina-
tion with soda, and the crystalliza-
tion of the nitrate have been steadily
proceeding until the nitrate fields of
Chile have become of vast commer-
cial importance and promise to be of
inestimably greater value in the fu-
ture, especially to wheat growers,
for wheat pre-eminently demands
nitrogen.

Here also as in the other industry
a large army of men is employed
to place on the market the thousands
of tons of salt petre, which is shipped
at about 90 per cent. pure sodium
nitrate, and at the rate of 1,475,000
tons a year to all parts of the world.
The only thing to be regretted is,
that this industry must fail in from
30 to 40 years if the present output
continues, as the supply will then
be exhausted.

It behooves, therefore, the farmers
to save or conservidly use the nitro-
gen in the soil. C. H. G.

'83.

Oliver S. Bristol, '79-'81, is a
fruit grower at Almont, Mich.

'91.

Arthur C. Perrin with '91, is
superintendent for the Kerry, Han-
son Flooring Co., of Grayling.

'98.

T. L. Hankinson, who read a
paper at the State Academy of Sci-
ence held at Ann Arbor last week,
is to have charge this summer of a
study of the fish of Walnut lake,
near Pontiac in connection with the
state biological survey, originated
by the above named association.
The work will be prosecuted under
the direction of the state geologist,
Dr. Lane, and Prof. Reighard of
Ann Arbor and has for its object a
determination of all factors which
affect the life of fish in the lake.
Walnut lake is selected because it
is one in which white fish and lake
trout are known to thrive, while
smaller lakes in the vicinity are un-
favorable to their growth. Mr.
Hankinson is instructor in biology
at the State Normal School of Illi-
nois, located at Charleston, and was
granted leave of absence for the
summer in order to carry on the
work. He and his assistant will
camp during the time.

'04.

Rollin S. Davis, with '04, is at
present City Sewer Inspector of
Coldwater, Mich. His address is
322 Pearl St.

'04.

"Big John" Alfson with above
class is now a traveling salesman
with address at Alpena, Mich.

'08.

Margaret Christy is now teach-
ing in New Mexico, and is heard
from at times. She seems to be en-
joying New Mexico, as she has
taken a homestead there, but is un-
decided yet whether to raise popcorn
or chickens. She is counting on
huge orders from her old M. A. C.
friends and will soon issue attractive
advertising circulars for their bene-
fit.

At a meeting of the M. I. A. A.
directors held at the Downey House
last evening, bids were made for
Field Day in June with the result
that M. A. C. won out. It will be
held June 1 and 2 on the M. A. C.
athletic field.

Mr. Clifford Gibson, foreman of
the grounds, has resigned his posi-
tion and will move upon his farm in
northern Michigan. The place has
been filled by the appointment of
Mr. Albert Davis, who has for some
time been employed by the Hort.
Department.

Mr. Gunson has been busy pre-
paring a flower border on the west
side of the walk between the
Women's building and the library.
It will be planted to pansies and
other annual flowers this year and
next spring will be made into a per-
ennial flower border.

Prof. W. K. Bainard '99 in charge
of the Dairy dept. of the University
of W. Virginia, called on college
friends yesterday while on his way
for a visit with his parents at Ches-
aning. Prof. Bainard has a six
month's leave of absence and sails
on the 10th for Europe.

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faction at every point—Style, Wear,
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every pair.

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ABOUT THE CAMPUS.

Beckwith spent his vacation week
in the bulletin room.

Burrell has been confined to the
hospital for several days.

Instructor Burk spent several
days in Detroit last week.

McDermid has been wrestling
with calculus the past week.

E. A. Calkins, '98, of Mason, was
a College caller the past week.

Prof. Smith's bulletin on Feeding
Dairy Cows is ready for distribution.

Frank Phillips '02 read a paper
at the academy of science meeting.

Dr. and Mrs. Waterman spent
Easter vacation at their former home,
Salem, Mich.

On account of the death of Prof.
Joslyn, Lansing will have no May
festival this year.

Before many issues the RECORD
will publish an illustrated article on
the new heating plant.

Mrs. Kenney and children have
been spending several days at the
old home near Coldwater.

Do not forget the big circus Sat-
urday. It was good last year and
promises to be larger and better than
ever.

Yesterday was a fit day for open-
ing of the week of college. Every-
one feels like taking "mostly cam-
pus."

Two society vacation parties were
held Friday evening. One at the
Union Lit. rooms with the Hesper-
ians as guests, the other a Tic-Olym-
pic.

Messrs. Shull and Pennell were
kept busy removing evergreens and
shrubs for Mr. Gunson the past
week.

Geo. F. Ransom, a former M. A.
C. student is at present chemist with
the Sibley Quarry Co., of Trenton,
Mich.

Bids for the erection of the new
mechanical building will be received
at the secretary's office up to Thurs-
day, April 12.

Stanley Filkins' room, has returned
for the work of the spring term.
He was obliged to drop out last year
on account of illness.

Miss Kate Coad visited college
friends a few days the past week,
returning to her school duties at
Middleville, Monday.

The large maple tree at the north
of the arboretum has been cut and
converted into wood. It was found
to be decaying quite badly.

We hope before long to present a
photograph of our new dormitory
for boys. It is the intention to pub-
lish same in the new catalog.

The painters and paper hangers
were kept busy during vacation as
result of which several rooms have
been materially brightened.

A meeting of the directors of the
Michigan Corn Improvement As-
sociation was held in Prof. Jeffery's
office Wednesday of last week.

Several of the engineering stu-
dents remained at the college dur-
ing vacation and worked at plumb-
ing, and other engineering work.

All those entering for spring
term work who have not been in
college during the fall and winter
should report their names for the
new catalog.

Mr. and Mrs. L. F. Newell were
called to Howard City last week on
account of the death of the latter's
mother, Mrs. J. B. Reed. Funeral
was held on Wednesday.

The corn special on the Lake
Shore Ry. is being announced and
it is expected that large crowds will
gather as much interest in this sub-
ject is being manifested.

Instructor Leonard has returned
from the south and will no doubt
take charge of his classes soon.
Mr. Cole, with the department last
term, will open the work for him.

Miss Addibelle Bently, for some
time stenographer in the president's
office, and recently with the Olds
Co., left Thursday for Mankato,
Minn., where she has accepted a
position.

A number of evergreens have
been placed on the south of Williams
Hall to form a screen. Some of
these were moved from the site to
be occupied by the new engineer-
ing building.

W. J. Dorsey is planning to take
the civil service examination for
scientific assistant in pomology in
the U. S. Department of Agricul-
ture. The examination will be held
at Grand Rapids the latter part of
April.

Miss Moxness will, it is expected,
land in this country today, and after
a visit with relatives in New York,

resume her duties in the chemical
laboratory of the experiment station.
She is expected some time next
week.

W. E. Wilson who has for his
thesis the testing of street car motors,
made a run on the St. Johns line
Tuesday, March 27. The party
left Lansing at 3 o'clock and re-
turned about 6 and reported a suc-
cessful trip.

L. C. Holbrook, instructor in
physics at M. A. C. for several
years, and who for a time had charge
of the physics in South Omaha high
school, has accepted a position in
the schools of St. Louis, Mo., at an
advance in salary.

Among those from the college to
attend the meeting held in Ann
Arbor last week were Pres. Snyder,
Drs. Beal and Marshall, Profs. Bar-
rows and Bogue, Instructors Sackett,
Bushnell and Curtis, and Mr. Patten
of the experiment station.

Plans for erecting the poultry
plant are moving along as rapidly
as possible. The incubators and
brooders have arrived and eggs for
the first hatch have been ordered.
Actual work begins this week.
The plant will be located about mid-
way between the farm house and
the experimental orchard.

Those of the senior class to com-
plete the work for graduation at
the close of the winter term are:
W. P. Wilson, W. C. Strand and
E. F. Smith of the mechanical
course; R. C. Potts, R. G. Potts,
C. A. Wilson and H. H. Crosby of
the agricultural course, and A. N.
Robson of the forestry course.

An open meeting of the Political Science Club was held in the reading room Saturday evening when Ray Stannard Baker gave his talk on the "United States Senate." A cordial invitation was extended to all, as a result of which about fifty persons were present.

The following officers were chosen at the Academy of Science meeting last week: President, Dr. J. B. Pollock, of Ann Arbor; Secretary-Treasurer, Prof. E. E. Bogue; Assistant Secretary-Treasurer, W. G. Sackett; Librarian, Dr. G. P. Burns, Ann Arbor. Vice-Presidents, Agriculture, Prof. R. S. Shaw; Botany, Prof. C. A. Davis, Ann Arbor; Geography and Geology, R. D. Calkins, Mt. Pleasant; Sanitary Science, A. J. Patten; Science Teaching, Prof. S. O. Mast, Holland; Zoology, Prof. C. C. Adams, Ann Arbor.

The following petition is being circulated among those interested in the highway between the college and Lansing: "We, the patrons of the Citizen's (and Bell) telephone company, do most respectfully petition, in view of the improvement to be made on Michigan Ave., that you remove your poles to the vacant space south of the street car line. We consider them, in their present position, not only unsightly but a menace to public life. The new macadamized road with proper gutter and bicycle path, will use all the available space north of the track."

The north end of the large dairy barn is being entirely remodeled and furnished with fittings for the handling of the pedigreed beef cattle. The southern portion of the annex will not be changed to any great extent, and will be occupied by a pedigreed dairy herd as heretofore. This will place all of the animals of pure breeding under one roof and will make the methods of breeding, management, etc., much more systematic. It will also result in a grouping which will enable the visitor to get a much clearer conception of the live stock equipment.

Mr. Chappelle recently received a letter from Mr. Leonard written from Atlanta, Ga. He was for a time at Ashville, N. C., but found the climate too cold, altho one of the healthiest places in the country. Atlanta, he states, is much like Detroit, altho there are finer buildings and more sky-scrapers. On account evidently of recent labor troubles, he has found it difficult to inspect the manufacturing plants as visitors are looked upon with suspicion. He, however, made visits to the "Georgia Tech," where he received a hearty welcome and enjoyed very much the visits with the foreman of shops.

Every farm boy in Michigan would be greatly helped and better prepared to solve the problems in agriculture by a course in the Michigan Agricultural College. Farming in this day and age has become a business that demands a well disciplined brain and in return yields a good living, beautiful home-like, health, happiness, power, and profit. Many a boy has rushed into town or city allured by the superficial appearance of ease, leisure, and comradeship. Many of these people just hang on. To live as well as most farmers live, to have as good homes, to have even the leisure

which during a portion of the year the farmers enjoy, would in a city require an income of \$2,500, per year. Teachers, make prominent the blessing and beauty of country life.—*Moderator Topics.*

THE FARMER'S FRIEND.

The common gray toad, lives entirely on animals and insects that are harmful to vegetation—as worms insect larvae and mice. Its tongue is well adapted to the work in hand and when, on the first warm evenings of spring you here, mingled with the rustling of dry leaves and grass, the low musical trills of the male toad, you may know that all the adult toads are on their way to the nearest pond to lay their eggs.

Should you go to the pond the next morning, you would see numbers of them paddling about in the water, many of the males trilling at the top of their voices. The mass of eggs laid by a toad is remarkable. One author states that a toad can lay a mass of eggs eight or ten times as large its whole body. This is explained by the swelling of the jelly, to which the eggs are attached, when it comes in contact with the water. First the eggs elongate, then the tiny flat tadpoles hatch and feed on the jelly-like matter surrounding them; hind legs appear, for legs come, the tail is absorbed, and the little toads emerge from the water—all within little more than a month from the time the eggs were laid.

In Europe toads are advertised for sale and gardeners buy them in large numbers. Boys catch them in nets, which is easily done in the evening twilight. When placed in a garden they seldom leave, but soon find a burrow under a board or stone, or at the root of a tree or shrub, and make themselves at home.—*M. E. S. Charles, Indiana.*

The following table taken from the Observer's Meteorological report shows the weather conditions for the month of March.

Date	Temperature		Am't Snow or Rainfall	Prevailing Wind	Remarks
	max.	min.			
1	35	23	.027	.27	S.E.
2	34	24	.75	---	"
3	42	33	.045	---	"
4	32	22	.047	.47	S.W. E.
5	29	22	---	---	N. S.E.
6	29	23	---	---	S.E.
7	35	29	.07	.72	S.W. S.
8	37	33	---	---	S.W. S.E.
9	37	27	.05	.56	N.W. S.W.
10	37	26	---	---	N.W.
11	31	22	.08	.85	"
12	28	13	.05	.52	"
13	26	16	.04	.433	S.E.
14	24	15	---	---	N.
15	21	11	---	---	N.
16	17	12	.02	.22	S.E. N.E.
17	24	15	---	---	S.W.
18	28	17	---	---	S.
19	23	23	.45	4.5	E. N.
20	23	14	---	---	W. S.W.
21	22	14	.03	.33	S.W. N.W.
22	12	9	.02	.20	N.W.
23	17	-1	---	---	S.E.
24	25	9	---	---	E. N.E.
25	33	13	---	---	S.E.
26	51	30	.17	---	S.E. S.
27	35	33	---	---	N.W.
28	37	30	---	---	N. E.
29	41	29	---	---	N.E. E.
30	40	33	---	---	N.E.
31	38	30	---	---	N.E.

* Very little rain in a. m., heavier in p. m. and night.
† Heavy fog in morning.
‡ Snowed at successive periods throughout day.

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