Walter L. Hazen, '99, has entered the employ of James A. Adams & Co., shoe dealers, Saginaw, Michigan. His ability as a shoe salesman is well known to College people.

Prof. and Mrs. Babcock and Prof. W. O. Hedrick made a holiday trip to Atlanta, stopping over a day at Chattanooga on their return. Prof. Hedrick then spent a week at M. A. C. 

Since the fall term closed the interior of College Hall has been entirely repainted. All the class rooms have been papered, the halls painted and papered and the chapel looks like new.

F. L. Reynolds, with '95, m., made a short holiday visit to Atlanta, stopping over a day at Chattanooga on their return. Prof. Hedrick then spent a week at M. A. C. 

M. A. C. was well represented at the State Teachers' Association which was held at Lansing the last week in December. Over sixty were in attendance, and of these about forty-five met in the parlors of the Congregational church on Friday evening and enjoyed a good, old-fashioned love feast. The old and the young were there from '74 to '99, and as well did they enjoy each other's company that they made a permanent organization and elected officers to arrange for another meeting, a supper and other agreeable diversions for next winter. The officers of this M. A. C. Association are: President, C. L. Benisi, '74; Vice-president, W. V. Sage, '94; Secretary, and treasurer, D. J. Crosby, '96, Agricultural College. C. L. Benisi, '74, superintendent of Ionia schools; and Charles Mclnnosky, '81, professor of history and English at Olivet College, are both mentioned by their friends as suitable candidates for Superintendent of Public Instruction.

At the organization of the Political Science Club, of Lansing, last Monday evening, S. B. Young, '96, was elected one of the two vice presidents.

J. R. Sayler and Whyie Matthews, both '95 men, are in the employ of Frager & Chandler of Chicago, Sayler as a machinist and Matthews as a draughtman.

Miss Alice Coates, '98, will make her home with her sister, Mrs. Prof. Davenport. She has entered the Illinois Industrial University at Champaign, Ill.

E. D. Partridge, '96, after spending a couple of weeks with relatives in northern Ohio, and a few days with friends from Utah, at the U. of M. is again at the college.

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The M. A. C. Record.

PUBLISHED WEEKLY BY THE MICHIGAN AGRICULTURAL COLLEGE.
EDITED BY THE FACULTY.

SUBSCRIPTION, 50 CENTS PER YEAR.

Secretary J. H. Butterfield.

INTRODUCTORY.

The Michigan Agricultural College recognizes the importance of being in touch with the farmers of the State, and it has been determined to do this by being a leading factor in lifting the agriculture of the State to a higher plane of excellence. Through the medium of this journal it often appears to be an agency for those who have a taste for mechanical pursuits. Its efforts are centered in these objects.

We are at present a training station and the farm's institute can increase its usefulness, its main effort must be expended on the men it is to train. Its efforts must be directed with skill to the advancement of the State, and our old students in this new enterprise and shall be more intimate and cordial one that the present students, a more intimate and cordial one that the College and the farmers, the College and its graduates, the College and the parents of its pupils of the public schools.

The State Board of Agriculture held a meeting at the college January 3. Lient. Henry H. Bandholz was the choice for military instructor at the college to succeed Lient. A. M. Hradec. The college and its graduates, the College and the farmers, the College and its graduates, the College and the parents of its pupils of the public schools.

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The great meeting of the year is the round-up at Grand Rapids, Feb. 12, 13. It will open the evening of Tuesday, Feb. 11. Gov. Rich will make the opening address and it is expected that ex-Governor Jos. E. Smith of the session, that is being held in the State, and the them a market. To make the consumers learn that fruit will sell no matter how bad the shipping, the farmers must get a reputation and a market. The sooner we get down to business in the packing of the fruit will color evenly as it ripens.

THE FACULTY.

Respectfully submitted,

Prof. Taft was instructed to take steps to carry out the plan as proposed and he would like to hear from school teachers on the subject.

FARMERS' INSTITUTES.

Fifty-five farmers' institutes are held this month in the State. These are all two day meetings, and attended by from five or six or seven persons by the Board of Agriculture. A long institute will be held at South Haven, Feb. 3, 4 and 5. This is a fruit meeting almost entirely, and was attended by Dr. Keire, Prof. Smith, Prof. Taft, Prof. Berrow and Prof. Woodworth of the Collage, and Roland Merrill of Banton Harbor. There will be discussions daily upon the important subjects each day all four days, and will present consecutive topics.

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such work as pruning, transplanting, spraying and planting the various garden crops.

Except when occupied with work that is purely educational in its nature, the student is assigned to the care of some crop, or will be placed in charge of some experiment. If this does not require all of his time, he will assist, with his work and thus obtain experience in other lines.

During the last six weeks of the spring term the freshman will be put to the routine work upon the gardens and grounds or in the orchards. This work will be all paid for.

DEATH OF PROFESSOR INGERSOLL.

Prof. Chas. L. Ingersoll, '74, died at his home of his brother, Dr. L. P. Ingersoll, Grand Island, Del. Oct. 8, 1895, after a lingering illness caused by creeping paralysis.

To those of us who knew him he needs no word of commendation nor of reference to the perfect character denoted by the term "christian gentleman."

Of the graduation from M. A. C. who have taken high positions as educators in the field of agricultural science, none stood above him.

At the same time other sections of the class will be studying the vitality and other qualities of the seeds to be sown in the spring. The different varieties of corn, oats, and rye will be sown, and each student will test them in exactly the same way and with exactly the same simple apparatus that the professor himself used.

The seed oats will be killed out, and the different varieties compared. The clover seed will be purchased for foil seed, and its vitality and per cent of germination tested.

The soils of the different fields will next be studied and the reasons for the arrangements of the crops for the different sections.

From the opening of spring, through the summer and fall, each student will care for some portion of each crop, which will be his domain. The students will then be divided up, and each field, so far as practicable will be made contingent on the skill and success with which he does his share of the work.

It is unnecessary here to go into the details of the scheme. Its success will depend in great measure on the enthusiasm we are able to arouse in the young men themselves. We hope for much.

Horticultural Department.

PROF. L. E. ZAFF.

The agricultural students who elect horticulture during the spring term will be given lectures embracing such topics as house construction, commercial floriculture, parasitic diseases of plants, injurious insects and remedies, irrigation, fertilization for the orchard and garden and their use, with such other horticultural topics as may seem of general interest to the class.

Laboratory work will be required of seniors electing horticulture in this line, who will be expected to carry on work which will depend largely upon the wishes of the individual students.

The agricultural juniors will receive instruction in horticulture each day during the spring term. The subjects taught will be the care and cultivation of the various crops and flowers, with special attention to the selection and care of greenhouses and other glass structures, floriculture, and kitchen and market gardening. The instructor can only be as successful in this class as the students will be willing to work for, and the students will be required to provide themselves with a reference book in vegetable gardening, and frequent reference to it.

The afternoon work will be for the most part in the nature of laboratory exercises along the same lines as have been followed in the morning in the class room.

Particular attention will be given to practice work in grafting and the making of cuttings, the other methods of propagating plants being taken up at the proper time during the summer term. The students will be required to give considerable time to studying the various methods of building and heating greenhouses, including the drawing of plans for the same. Special apparatus will be furnished and existing specifications for the materials required in constructing the houses; there will also be practical work in the various operations connected with the growing of flowers and vegetables under glass.

The season advances the class will be assigned to

PHYSICAL SCIENCE.

As the agricultural sophomore looks over the catalogue to note what he is to do next term he can hardly fail to be impressed with the fact that "Labor department except as in note." The note tells him that of the first six weeks of the term he will spend one-third in the blacksmith shop, one-third in the tool room, and one-third in the Agricultural laboratory.

The work in the blacksmith shop is both interesting and valuable, and every man in the class will thoroughly enjoy it. Last term the sophomore had practical experience in farm machinery, hence the work in the tool room will be of little interest and the time occupied by other important matters.

Beginning at the opening of the term the class will be kept posted on the progress of the experiment station. Here the disease which has been treated in the morning in the class room.

The afternoon work will be for the most part in the laboratory. Its success will depend in great measure upon the skill and success with which he does his share of the work.

As the season advances the class will be assigned to

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is the Place to Obtain a Substantial Education at a Moderate Expense.

It offers a course in agriculture which comprises all subjects in agriculture and horticulture, English language and literature, botany, chemistry, zoology, veterinary science, physical science and political economy.

Among the breeds of Swine we have Duroc Jerseys, Experiments in stock feeding are in progress during the last six weeks of the spring term, the calves being taken to the hay yearling if not only various interesting forms of tropical plants, many of which are of economic value, but the more common plants of the florist, including such as are used for making new, decoration, and cut door planting. Besides such vegetables as are commonly grown under glass.

In the class room the elementary principles of horticulture are taught, and lectures are given upon the best methods of growing and handling the various crops; which is, with specimens added at the College, and by exchange, forms one of the finest insect cabinets of the West.

In the general museum will be found skeletons and preserved animals of all parts of the world, reptiles, batrachians; the fauna of Michigan is specially well represented; a large collection of shells, native and exotic; a collection of insects which which is especially valuable in the midst of his active work during the summer of 1895.

E. C. McGrew, '91, will read a paper on "Education for the Farmer" at the Clinton Co. Farmers' Institute Jan. 28. Gay floor of its 45,000,000 is^ Minneapolis will read a paper on "Little Things" at the same institute.

Recent advances from Australia gives information of the birth of a koala, the "koalas," at Berkeley, C. Dr. J. Shelly's oldest son, Frank, is now a student in the Kansas Agricultural High School, who, at the age of 71 has two daughters to assist her in the care of the household.

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was erected at a cost of $18,000. The south front
arboretum, and a model forest.

The north front contains a lecture room with
fourteen chemical and two assay balances, evaporating hoods,
cases for apparatus, etc. 

Connected with this is the qualitative analytical room
with twelve tables and working room for forty-eight
students, provided with water and gas for each student. Beneath this room on the first floor is the
examination station chemical laboratory and assay room, with complete fixtures for mineral assays.

The Veterinary

course of study embraces these terms in the senior year, the autumn term being devoted to anatomy, while the
spring and summer terms are given up to the study of materia medica, and the accidents and diseases which
affect domestic animals. Provision is now being made for
the study of bacteriology with reference to its application to the contagious diseases of domestic ani-
mal. Operations are also performed before the class at
convenient seasons.

The Chemical Laboratory

contains over eighteen thousand volumes. Besides
a full collection of works on history and general
literature, it is well supplied with scientific and techni-
cal works, and with the journals of agriculture and
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Student Labor System.

All students taking the agricultural course are
required to devote twelve and one-half hours per week to
manual labor on the farm or garden. All kinds of labor
are performed by the students, under the supervision of
competent instructors. Students receive pay for labor
that is of value to the College.

The work in the class room is supplemented by lab-
story work. The exercises are largely taken from the
class notes, farm and shop. Special attention is given to
learning illustrations and explanations of such subjects as physics of soils, of fuels, cream separators, ice ma-
chines, hydraulic pumps, condensation of milk, and heat
motors; also the construction and management of dyna-
ma, electric lights, electro plate, electro batters,
dial telephones, telegrapbus, motors, and storage batteries.

The shop work is supplemented by a use of the
trades and business courses. The aim of the course is to prepare young men in
such a practical way that they can be relied upon to
build or operate the apparatus used in mechanical, elec-
trical, and agricultural engineering.

VETERINARY LABORATORY AND BARN.

The aim of the course in Mechanical Engineering is
to give the student a thorough training in the ele-
mental work—both theoretical and practical—of his
chosen profession.

In this course particular emphasis is placed upon the
work in mathematics, study of the theoretical principles
underlying the sciences of machines and mechanics, and the
practical construction of machines.

Students in the mechanical course have laboratory
practice of various kinds.

Among the more important subjects are steam engines,
steam boilers, valve gears, machine design, strength of
materials, kinematics, thermodynamics. Instructiion is
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THE M. A. C. RECORD.

January 14, 1895.

an excellent grass garden, weedy garden, botanic garden, arboretum, and a model forest.

Physical Laboratory.

The department is well equipped with suitable appa-
rate to practically illustrate the modern industrial
application of heat, sound, light, mechanics and electricity.

The instruction is given by lectures illustrated by ex-
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