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# The M. A. C. RECORD

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ROBERT J. McCARTHY, '14, editor

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# THE M. A. C. RECORD

VOL. XXVIII. No. 29

EAST LANSING, MICHIGAN

MAY 14, 1923

## STADIUM GOING SOUTH OF RIVER

Construction to Start Immediately on New Field—Unit to be Available for Next Season—Advantages of Location

With preparations actively under way for the erection of the new stadium M. A. C. is assured the best playing field and accommodations for spectators in Michigan outside of Ann Arbor. In connection with the plans for a stadium there are plans for an enlarged athletic field, including tennis courts, running tracks and baseball diamonds enough to supply the demand. The college already possesses a gymnasium second to none with modern equipment and the largest swimming pool in an educational institution in the state.

A recommendation has been made to the state board of agriculture that the new stadium be erected to accommodate a crowd of 16,000 spectators with plans arranged so that this capacity may be increased by 10,000 when the necessity arises for more space. The location which has been fixed upon will give the field a better setting than any other structure of its kind. On the high south bank of the Red Cedar it will overlook the campus and the broad fields of the college farm. To the east is a double row of large pine trees and to the west a plantation of pines also adorns the view on a low hillside.

It will be easily accessible from the main traveled roads with three entrances when the new bridge across the river near the gymnasium is completed. Work will be started immediately on the construction of the stadium and it is planned to have at least one large unit available when the football season opens next fall.

With the new stadium M. A. C. looks forward to a revival of its great athletic days. Ralph Young, recently chosen director, will take complete charge of the football team in the fall and will have direct supervision over all sports. His work is well known throughout the state and middle west and the material with which he will work promises to give him contenders for state honors in almost every sport.

With the equipment at College Field and the gymnasium there will be room for all sorts of work to get the teams into condition

and the stadium will provide an incentive for best efforts on the part of the football squad. M. A. C.'s athletic plant will be second to none in colleges of its size and the coaching staff as it will be made up when college opens in the fall has promise of being able to make good use of it.

## HELEN HULL WINS PRIZE LIST PLACE

In the Detroit Free Press for April 22 a review of the "O. Henry Memorial Award Prize Stories for 1922" the reviewer selects "His Sacred Family" by Helen R. Hull as the best story in the list of sixteen which comprise the book. They have been selected as the best stories of the year, in the form followed by O. Henry and while in the opinion of the judges Irvin Cobb turned in the best story it is the judgment of the reviewer that Miss Hull's contribution is the most noteworthy. Miss Hull was with the class of 1909 for three years, leaving at the end of that time for Chicago where she completed her college course at the university. Her experience since that time has been in teaching in the larger schools of the East. She is now on the faculty at Columbia university.

In her first novel, "The Quest," which was published in 1922, Miss Hull lays much of the scene at the college. Some of her characters are former Dean Gilchrist, Mrs. B. B. Roseboom, formerly Miss Norma Gilchrist, and Professor Hedrick of the economics department. Much of her work, however, has been in short stories where the note she has achieved is demonstrated by the prominence given her work in the prize award volume for 1922.

During her days at M. A. C. she was a member of the Themian society. Her parents still live in Lansing.

The Purdue Union will cost \$1,250,000. The first story has been completed.

## COLLEGE FITS USEFUL CITIZENS

Agriculture but One of Technical Studies Offered—Liberal Electives Available in Several Divisions—Prominent Graduates

One of the popular delusions extant about M. A. C. is that it is an agricultural college. Another slanderous statement often made is that its students come entirely or in a large majority from the farming communities. While neither of these would be a matter to make any college ashamed they are both derogatory to M. A. C. for, as a first class technical school, they tend to belittle the immense work the college has done in other lines and hinder it in enlarging its efforts. A study of the records for the past ten years will show a great number of men and women coming from the cities to learn the secrets of agriculture and its related arts and sciences, later putting them to use in actual practice, and a large number of engineering students coming from the farms to go out as expert engineers occupying some of the most important positions in the nation's industry.

It is generally accepted, though, that usually the college student coming from the city is more interested in matters pertaining to city life than those of the rural community. There is undoubtedly no institution in the state of Michigan which offers such a variety of scientific courses as does M. A. C. and many of these are of such a nature that they prepare men and women for positions of prominence in the urban districts of the world.

In the applied science division where bacteriologists, botanists, chemists, entomologists, economists and any number of useful citizens may be trained the college offers the greatest diversity from straight science obtainable in any institution. Here workers are trained for the laboratories and offices of business. Executives are produced for the varying departments of a city and industries. Teachers are trained for the public schools in history and political science. Technicians in a number of different lines are given the education they need. This division has been in operation but a short time but during that period it has produced results which portend a great future.

In engineering the college has accomplished a lot. In the automobile industry there are any number of M. A. C. graduates doing the most important tasks for the big corporations. They design motors and bodies, handle the personnel and you will find them in the sales

and advertising ends of the business as often as in shop and factory. One recent graduate is chief engineer for an airplane company, one has made his reputation as a petroleum production engineer and throughout the whole field from civil and chemical, mechanical and electrical to the more involved duties of technical men they are more than holding their own.

Agriculture, essentially the science of producing food and other necessities from the soil, has gone beyond the job of farmer. Experts in seed growing, experts in seed distribution, experts in organization work, experts in all of the varied activities of this industry are in great demand. They not only apply their efforts to rural life but are found in great numbers in the cities where their knowledge is of great value to the consumer. Branches of this division of the college have not only produced successful technical men but also through giving a general education have placed their graduates in a great variety of occupations. Law has its quota. The ministry has drawn a few. Some are publicists or musicians. Not a few are prominent in the advertising field. Medicine and dentistry have attracted some to their ranks.

In addition to these advantages M. A. C. offers the most beautiful campus in the country as an added incentive to the student. Charming environment, rural, yet with all of the conveniences of a modern city surround the student with an atmosphere conducive to academic effort and develop in him that reverence for his alma mater which but few others can hope to bring about in the minds of their students.

P. M. Toriumi, a special reporter and technical editor of the *Automotive Journal* of Tokio, Japan, who is on a tour of the United States observing conditions in the automobile industry, visited the campus recently. He made the trip to East Lansing at the behest of S. Yebena, '85, the first man of his race to graduate from M. A. C., who was Toriumi's teacher at the Chiba agricultural college at Tokio-Fu, Japan, near Tokio. Yebena expressed his desire to see M. A. C. again and plans to return for a visit during the next few years.

## STUDENT ACTIVITIES DEVELOP PERSONALITY

Activities of such a diversified nature as to include all types of students are continually in operation at the college and through the organizations which govern these important factors in student life they obtain that experience in handling affairs which stand them in good stead when they leave college. There are musical and dramatic clubs, technical clubs of all sorts, fraternities and societies, military life in all of its phases, athletics of all kinds, literary and journalistic enterprises and religious leadership. All of the appeals to a many-sided development of character and personality are given in a form which is most attractive.

Provision is made by the college for most of these so that they have quarters for their meetings, some have provided their own. Sixteen fraternities and societies have their own houses where most of the members live and where their guests may be entertained. A building is provided for the Y. M. C. A. Another building whose ultimate cost will be \$500,000 will be under construction this summer for the use of the entire student body, faculty and alumni and where a democratic spirit will be insured for the entire college. The M. A. C. Union, for which this structure is being built, draws into its many activities all students irrespective of their other affiliations.

Rifle teams, debating teams, a military band, the annual opera presented by the Union, the Holcad, a bi-weekly newspaper published by the students all give training along lines which are not covered in the ordinary college curriculum. Honorary fraternities recognize merit of all kinds in the various courses and give a feeling of satisfaction to those elected to membership as well as drawing attention to their accomplishments.

M. A. C. is well provided with all sorts of organizations. There is a special niche for every personality entering college and there is plenty of opportunity to broaden that personality along the lines which fit it best.

More than \$96,000 was earned by Yale students during the present college year up to April 1. Of this amount \$3,150 was the amount credited in cases where students earned their board. This is estimated at \$9 per week, the nominal charge at Yale. The athletic department employed the next largest number of men.

## WILL ENTERTAIN FOR MARY ALLEN

Preparations have been made to accommodate a capacity crowd at the concert to be given by Mary Allen, '09, at the college gymnasium on the evening of May 17. Miss Allen has forwarded her program to Bruce E. Hartsuch of the chemistry department who will be her accompanist.

Among the events which are planned to honor Miss Allen during her stay in East Lansing are a reception at the gymnasium after the concert and a tea which will be given by the Sororian society, of which she was a member, on Friday, May 18. While here she will be the guest of Mrs. Lenora Smith Van-Halteren, '09, and a special effort is being made to notify all '09 people of the concert so they may have an opportunity of hearing their classmate.

## HIGH SCHOOL BANDS TO MEET AT COLLEGE

A competition for high school bands will be played off May 26 at the college. Prizes are offered for the best three bands in each class. Class A is open to all schools of more than 500 enrollment, class B is open to schools of less than 500 enrollment. Professor Clark expects a number of entries for the contest and is making arrangements to have the boys entertained at the society houses. No uniforms will be required for the competitors. They will be required to play a march of their own choosing, another selection of their own choosing and a march which will be sent out to the contestants.

## JUDGE COLLINGWOOD TALKS TO ENGINEERS

Judge C. B. Collingwood, '85, who delivered a series of lectures to the engineering students during the winter months, was one of the main speakers at the annual engineers' banquet at the Lansing Chamber of Commerce on April 27. Judge Collingwood stressed the necessity for a broad education for engineers so they may know how to handle men. W. G. Hildorf, '15, of the Reo plant, talked along the same lines, showing where the college man needs much of the training early absorbed by the practical engineer.





## VIEWS AND COMMENT



It is barely a month until reunion time. There is plenty of time to make your preparations to be back on the campus for the big day. Never before have M. A. C. alumni had an entire day to themselves at Commencement. Never before have they had the chance to return to their alma mater without sacrificing some of their time. This year many of the old objections and excuses will be obviated by the selection of Saturday, June 16, as reunion day.

You may think that there is no reason for you to make the trip back to the campus, you may believe that your associations in your present locality have taken the place of those you enjoyed in college, you may think you can keep young without spending a day or so once in a while getting into touch with the scenes of your most carefree years. But, one day on the campus will dispell all of these. It will show you the error of your ways.

You will have the opportunity of meeting many of your old classmates, no matter whether or not your class is scheduled for a regular reunion. You can't help but see many of the people you knew when in college, no matter when you were here. Far more than this, you will see the old campus in its best dress. You will see the new buildings nearing completion, the inauguraation of work on the Union Memorial building and will have a chance to watch the alumni take the measure of the varsity baseball team, if they are as spry on the baseball field as they were on the basketball court. All of these things will add years to your life. They will refresh you as much as the best vacation you ever had and will give you that opportunity, which a noted engineer has said every man should have once each year, of "marching down the middle of the street tooting a tin horn." All of these are yours for the taking. You need but to carry out the resolve you have often made to take another trip to East Lansing. Make it June 16, the best time of year and the biggest day in the history of the M. A. C. association.



If you know of high school students or others with entrance qualifications who want to know something about the advantages of M. A. C. write to the alumni office giving their names and addresses and the year they expect to graduate from high school.

Deear Mac:

For the past year I have been very busy working as city bacteriologist here in Bluefield, West Virginia, a town of about 18,000 inhabitants, the central distributing point of supplies for and for coal from the Pocahontas coal fields, which extend some distance to the west. Bluefield is istuated in the Applachian mountains, at the highest level on the Norfolk and Western railroad, at an elevation of over 2500 feet, where is said to be the largest natural gravity railway yards in the country. The East River mountain, nearby, rises another 1,000 feet and from its crest one obtains a splendid idea of the very hilly nature of the surrounding country—ridge upon ridge, with innumerable smaller hills and peaks thickly scattered between.

The result of the altitude is rather a northern climate for which I, personally, am very thankful. The constant humidity, which seems to be characteristic of this section of the United States, is particularly noticeable here, where frequently we are among or very near the clouds.

The work I am doing consists, fundamentally, in examining water, milk and diagnostic specimens, bacteriology and chemically, for the city and the physicians of the city. There is much to be done, nothing of the kind having been made use of, heretofore, but, slowly, we are making headway and beginning to see some fruits of our labors.

With best wishes to the Association, and all its members, I am,

Sincerely,

Heward E. Elmer.

Bluefield, W. Va.

Dr. R. P. Hibbard of the botany department announces the birth of a son. To offset this good fortune his home was the scene of a serious fire on April 15. An early application of water would have prevented much of the damage but the Lansing fire department found its hose would not fit East Lansing fire hydrants and the East Lansing fire department was unavailable for nearly an hour after the alarm was given because the driver of the truck was absent from duty due to an injury. Chemicals used by the Lansing company kept the flames back but did not succeed in stopping them and they had spread into the rear walls of the house before they were finally quenched.

## "Close Beside The Winding Cedar"

An Ayrshire cow owned by the college set the state milk production record for that breed during February.

Glen Overton, '06, Allegan, was elected a state committeeman of the Y. M. C. A. at the recent convention of that organization.

The Eunomian basketball team won the intersociety championship by defeating the Phi Deltas in the final game of the series.

Track men representing the Columbian society took first place in the inter-society meet. The Hesperians and Union Lits finished second and third, respectively.

Co-eds are planning a mother-daughter banquet to be held this month when they will invite their mothers to the campus and give them an insight into M. A. C. life.

A recent report by J. E. Burnett, '15, in charge of the record test for the college herd places Pauline Jane Pontiac, a pure bred Holstein Friesian, at the head of all cows owned by agricultural colleges or experiment stations. She produced 731 pounds of milk over a period of seven days.

**GEORGE E. GAUTHIER, '14**



Director of Athletics at Ohio Wesleyan University who will have charge of coaching school during summer session.

Professor A. K. Chittenden was elected vice president of the Michigan Forestry association at a recent meeting of the association at Ann Arbor.

Cornell has started work on a Union building. It will cost \$1,000,000 and will be erected from funds contributed for that purpose.

Minnesota and Wisconsin are both seeking funds for stadia and Illinois has recently completed a campaign for \$2,000,000 for such a structure. Minnesota will also build an auditorium.

At the annual meeting of the American Home Economics association at Chicago university in August, Former Dean Mary Sweeny, executive secretary of the organization, will be one of the prominent speakers.

B. A. Faunce, for many years connected with the president's office at the college, and for a long period editor of THE RECORD, was re-elected clerk of East Lansing for the 13th consecutive time at the recent city election. G. E. Ewing, '92, continues in office as treasurer.

At the annual meeting of the Inter-Society Union the following officers were elected: president, J. L. Kidman, '24, Clyde, Ohio; vice-president, J. W. Owen, '24, Highland Park; secretary-treasurer, H. E. Prescott, '24, Muskegon.

### NEUROLOGY

Ernest deAlton Partridge, '96.

Ernest deAlton Partridge, '96, was killed in a wreck on the Denver & Rio Grande railroad near Salt Lake City, Utah, on the night of May 2. He was teaching farm mechanics and drafting at Brigham Young university, Provo, Utah, at the time of his death and had been connected with that institution for some time.

In 1897 he was given the degree of D. B. by the board of education of Utah and in 1916 was granted a C. E. degree at M. A. C. He was graduated from the engineering course in 1896 and married Miss Lizzie Truman, w'98, who lived in East Lansing. He was a member of the Union Literary society.

## APPLIED SCIENCE HAS VARIED COURSES

### General Education Available for Students in New Division—Can Become Specialists in Important Fields

A broad field in which specialization may be pursued through a great variety of channels is offered in the applied science division which is just beginning to function. By entering this part of the college the student has his or her choice of a sufficient number of general electives and major subjects to provide an education along almost any line. Botanists, bacteriologists, chemists, mathematicians, teachers in all subjects from literature and art to some of the distinctly technical subjects, can all be trained in this division with equal success, and this list covers but a small portion of the possibilities.

General fundamentals are required of the freshman. He must fit himself to follow the various courses which are offered him during the last three years of his stay. His preparation is carefully supervised that he may not through his lack of perspective on the general plan neglect some of the important links in the chain of his education. In the sophomore year, however, the student is given an opportunity to choose his own course and follow one or more of the different paths opened to him.

This is undoubtedly one of the strongest courses at M. A. C. for the student entering from a city. The work is so planned that a large number of positions in the present day organization of the municipality are open to him. Park departments, schools and colleges need botanists while there are always certain positions in the federal service which are available for men trained in this type of work. Bacteriologists are now found in every city where they supply an important cog in the machinery regulating affairs pertaining to public health. Water supply for a city depends for its safety upon the careful work of these people, the diagnostician determines the character of diseases largely through the report of his bacteriologist, all modern hospitals must have at least one thoroughly trained experts in this line and the large medical supply houses offer positions of great importance and value to the graduate. In this line M. A. C. has one of few general laboratories at colleges in the United States. It has a staff of experts whose constant association brings them into touch with an enormous number of problems and their solutions. It is equipped in the

most modern manner and through the presence of a large number of graduate students and instructors it is in a position to give detailed instruction to every student. This field is for women as well as men. There are M. A. C. women carrying on this work in hospitals from coast to coast and they are beginning to take their places in municipal and commercial laboratory work.

Chemistry is beginning to take foremost rank among the sciences. It bearing on all branches of industry and on the most common incidents of every day life has given it a place which can not be taken from it. The alloys used in different parts of automobile engines and bodies, the composition of glass, the merits or faults of a fabric and the effects of different foods upon the life of the individual are a few of the points it touches.

M. A. C. was the first college in the United States to present a regular course in this science as a part of the course of study. Not until a year later (1858) did Harvard and Michigan begin their work in what has always been considered an old science. This has always been considered one of the best colleges in the country for such a course and a large number of graduates who are at the top of their chosen profession testifies to its worth. For a number of years the department was content to work along as a part of the other courses contributing its share to the education of agriculture and engineering students but lately it has branched out and provided specialists in electro-chemistry, industrial chemistry, chemistry engineering, physiological chemistry and textiles as the main branches of the science. These cover all applications of the subject to daily life and fit graduates for positions of great importance in industry, commerce and education. Chemistry has attained a prominence as a science of such value to everyone that it offers unlimited possibilities to the graduate and the M. A. C. student has a great advantage over those in larger institutions where classes are large and laboratory equipment scarce. Most of the work centers in cities where industry demands technically trained men ready with the knowledge necessary for testing materials and compounding the ingredients which make up substances. Immense corporations are found-



ed on the truths discovered by the chemist and he is the source of the impetus which allows them to grow and keep pace with the progress in their businesses.

Plant pathologists, specialists who study the cause of plant diseases, experts in seed raising, directors of botanical gardens, men who travel the world over for the government seeking plants adaptable to conditions in the United States, high school and college teachers, all of these are highly trained botanists and M. A. C. numbers all of these among her graduates. Hundreds are employed in cities or are kept going from place to place with all of the benefits and attractions of wide travel. Research workers in botany as well as chemistry and other sciences find an attractive field awaiting them. Recent developments in the causes of plant diseases and their control have opened broader vistas for the seeker for hidden truths.

In the study of history and political science which is offered as a part of the applied science course there is an attraction for the student who wishes to prepare himself or herself for public service. M. A. C. is noted for the excellence of these courses and the instruction they provide. Again the student is given the advantage of comparatively small classes and the early completion of the new library with a capacity of 250,000 volumes will provide further facilities for reference work and independent study.

Literature and its correlated subjects such as modern languages are taught by a large staff of men, many of whom have done creative work along their special lines. The journalism course is designed to teach fundamentals of news and feature writing. The public speaking activities have produced winning debate teams which have won reputations throughout the middle west and east. In dramatics there is an organization which produces one or more plays each year and in general literary work there are classes under specialists in all lines. Here again the student has an unsurpassed opportunity to benefit because of the large number of instructors for the classes.

Art studies can be followed to a highly developed extent with the M. A. C. art department. Not only is the staff in a position to teach the rudimentary work in drawing design but it is equipped to handle commercial work, illustrating and painting as a profession. The professor in charge of the department has gained prestige as a commercial artist and has produced paintings which have found favor at the hands of connoisseurs. The campus offers unexcelled advantages for the

development of talent and various student activities always demand a large amount of work from the art students in poster designs. This is largely a self contained department and gives to the student whose home has been in the city the opportunity to train for city positions remunerative and pleasant.

Fascinating studies in entomology, the life histories of important insects and their economic effect upon industry and commerce offers a chance to the scientific mind for extensive study. Under this head comes bee keeping and the control of insect pests. Work in entomology is being developed so that it requires a large number of men annually to fill the demand for government departments, colleges and schools. Zoology is another course offered which provides for the extensive study of nature.

One of the newest courses at M. A. C. which is also proving to be one of the most popular is that in economics. Under this head marketing of products, the organization of corporations, banking finance and accounting are some of the more important subdivisions. Trained economists are now more in demand than are specialists in many other lines. They find their fields being expanded by industry as all operations are put upon a sounder basis, they find their services needed by legislators in tax matters and in the preparation of statistics and their interpretation for the public. In hundreds of ways they are being employed by big business to help check over past achievements and settle upon probabilities of the future. A most complete course has been inaugurated in this line and is drawing favorable attention from a large proportion of the enrolled students.

Mathematics, one of the oldest of sciences, covers a field which is attractive to many. Its ramifications are constantly being extended and its usefulness enlarged along with research in economics and business methods. It always presents a fascinating study for the person who wishes to make teaching a life profession and has other uses of a varied nature. M. A. C. is fortunate in its mathematics department. It has a staff of instructors who are prominently known as authorities and whose contacts with the students have been generally beneficial both in technical knowledge and personality.

Applied science is a division of broad instruction. It offers the ideal opportunity for the student anxious to have a general education and to fit himself or herself for a particular field without sacrificing too much of the cultural side of college work for the purely technical.

# ENGINEERS HAVE UNLIMITED FIELD

## Main Branches of Profession, Carefully Taught—Find Desirable Positions Upon Graduation—Place for Imaginative Instinct

It is to the cities that M. A. C. looks most for prospective engineers. That branch of the college primarily sends graduates back to the cities, since the large industrial concerns established in the urban centers provide situations for the greater part of the graduate engineers.

A distinct appeal to the city boy desiring a course less technical than the regular engineering course in chemical, civil, electrical, or mechanical engineering, is the engineering administration course inaugurated at the beginning of the spring term in 1923. This course of study does not differ materially from the regular course in the four divisions of engineering with the exception that work is given in accounting and economics, to replace certain of the more technical subjects formerly required for graduation. The Massachusetts Institute of Technology installed a course similar to the one at M. A. C. in administrative engineering a few years ago, and the results thus far show it to be extremely popular with the students and it possesses certain characteristics which appeal to the industrial concern on the look-out for a man capable of stepping into an executive position.

The regular courses in the technical branches of engineering require no encomium. Graduates of the M. A. C. engineering division, technical as it is, have achieved prominence in the industrial and constructional fields second to few engineering colleges in the country. The technical branch gives the fundamentals of the sciences which are the basis of engineering practice in all lines of endeavor. An experienced and capable faculty molds the incoming student along the lines of keen observation so that he may draw logical deductions from personal observations. He is instructing in draughting and computing and given an opportunity to become acquainted with the use and limitations of various mechanical instruments.

Experimental work, as the basis of modern engineering advance, is encouraged at all times. The engineering student is taught the essentials of correct expression in writing and speech, in order that he may make letter-perfect reports to superiors, and write intelligently for engineering periodicals.

Electrical, mechanical and chemical laboratories provide the engineering student with

ample equipment for practical application of class room theory. The business, commercial, and ethical features of accepted engineering practice are emphasized throughout all class room discussion and laboratory work.

To the high school graduate of 1923 M. A. C.'s engineering school presents an opportunity which is unexcelled as a preparation for the great expanding field of construction and research. For instance, in the electrical field the electrification of steam railroad lines running into the great cities, placing electrical power units within the reach of every farmer, perfecting the radio, solving problems of high power transmission, and adapting electricity to industrial uses, constitutes only a few of the problems confronting graduates of the electrical colleges. M. A. C. seeks to adapt the young engineer to the modern changes in scientific electrical practices. The college attempts to instill in the young man a broad vision of the constructive force back of his chosen profession. The boy radio enthusiast will find an opportunity to broaden his knowledge of the radio field. He will study the pitfalls of high power transmission, the use of equipment for making production efficient and the interesting problems of his profession.

The chemical engineer will find an unlimited field in his profession. It is, according to present day engineers, the most vital, interesting, and unexplored division of engineering. It has been but recently that chemistry was called into the engineering science as a tangible co-worker. Formerly it was frowned upon as being too technical a study for the practical engineer to grasp. Comprehend the magnitude of the great electro-chemical plants, if it is possible, and you will see that chemistry solved the problems of the production of vital substances. And that is merely one illustration of the breadth of the chemical field. Alloys must be studied. Great automobile plants, and, in fact, every industrial plant manufacturing metal products, desires a thorough knowledge of efficient alloys. An industry must have definite information from consulting chemists on the cheapest, strongest, and most durable alloy for its particular purpose. As consulting chemists in the Solvay process industries, in explosive plants, and in sugar beet factories, the graduate chemical

engineer will find an opportunity for research work, and interesting chemical study that will excite the imagination of the most disinterested layman.

The mechanical engineering field, while it has been exploited to a greater extent than the chemical field, nevertheless presents a store of possibilities. Automobile plants send calls for M. A. C. graduates in preference to those of other schools. The mechanical laboratory is one of the best equipped in the country. The proximity of the Reo and Oldsmobile automobile factories contribute opportunities for practical study of the automobile manufacturing industry. The laboratories of the two companies are open to inspection by the mechanical engineers from the college at any time. M. A. C. graduates are found in every automobile factory of prominence in the country, and a number of the executives of the principal concerns are M. A. C. trained. The prospective mechanical engineer will find that he can secure a position with almost any tractor or automobile concern upon graduation providing he has demonstrated the proper interest in his work.

Civil engineering, the oldest and probably the greatest field in the engineering profession, presents a series of interesting phases. Highway engineering, which has been highly developed at the college, is probably the most popular course given in the engineering school. The Michigan state highway department, located at Lansing, employs approximately 90 per cent of its technical force from the list of M. A. C. graduates. Opportunities for summer employment for the student desiring work along his special professional line, are available at the state highway department. Construction engineering, giving the essentials underlying all building, is attracting a number of students formerly enrolled in other branches of engineering.

The field is thrown open to the person with imagination. He who can see the possibilities of the future and apply to them the principles he has learned or the theories he has formulated after research will be in the lead. In all of its branches engineering demands not only the trained technical man but also the man with vision. The former will do the routine work unless he has the imagination and initiative to carry him through to the more difficult heights of attainment.

The forestry summer camp will be held this year on the lands of the Johannesburg Lumber company near Johannesburg. It is expected that there will be about thirty juniors in camp.

## OHIO STATE TAKES DUAL TRACK MEET

Ohio State took all the first places in the running events at the meet at Columbus on May 5 and gathered enough points in the field to add up a total of 91 1-2 to 34 1-2 for M. A. C. Fessenden in the shot-put and discus came through in front of the opposition and Captain Atkins in the high-jump took available honors. Herdell ran well in both dashes and Baguley lost first place in the mile by a narrow margin.

The summary:

100-yard dash—Bawleson, Ohio State, first; Herdell, M. A. C., second; Connell, Ohio State, third. Time—10 1-5 seconds.

One-mile run—Kirkpatrick, Ohio State, first; Baguley, M. A. C., second; Liske, Ohio State, third. Time—4:29 3-5.

440-yard run—Everett, Ohio State, first; Sutton, Ohio State, second; Burris, M. A. C., third. Time—50 2-5 seconds.

120-yard high hurdles—Snyder, Ohio State, first; Green, Ohio State, second; Atkins, M. A. C., third. Time—15 2-5 seconds.

220-yard dash—Connell, Ohio State, first; Herdell, M. A. C., second; Clemens, Ohio State, third. Time—22 1-5 seconds.

880-yard run—Kreider, Ohio State, first; Ross, Ohio State, second; Klaase, M. A. C., third. Time—1:58 4-5.

220-yard low hurdles—Snyder, Ohio State, first; Green, Ohio State, second; Herdell, M. A. C., third. Time—25 seconds.

Two-mile run—Bussell, Ohio State, first; Cran, Ohio State, second; Willard, M. A. C., third. Time—10:07.

Pole vault—Rouch, Ohio State, first; Bascom, Ohio State, second; Harder, Ohio State, and Warner, M. A. C., tied for third. Height—10 feet 9 inches.

Shot put—Fessenden, M. A. C., first; Murphy, Ohio State, second; Surrato, M. A. C., third. Distance—38 feet 3-4 inches.

High jump—Atkins, M. A. C., first; Jefferson, Ohio State, second; Smith and Schneider, Ohio State, third. Height—5 feet 9 inches.

Discus—Fessenden, M. A. C., first; Petcoff, Ohio State, second; Murphy, Ohio State, third. Distance—125 feet 1 inch.

Javelin—Petcoff, Ohio State, first; Weamer, M. A. C., second; Kaplow, Ohio State, third. Distance—180 feet 1 1-2 inches.

Broad jump—Snyder, Ohio State, first; Jefferson, Ohio State, second; Brady, M. A. C., third. Distance—22 feet 1 1-2 inches.

Final Score—Ohio State, 91 1-2; M. A. C., 34 1-2.

## MORE THAN FARMING IN AGRICULTURE

Diversity of Subjects Included in Division—Cities Have Use for Many Graduates Expert in Subjects Taught at M. A. C.

For the lover of nature and the inquiring mind which is always seeking her secrets the agricultural division offers a list of subjects which intrigue a large number of students. It is largely the matter of seeing the possibilities of a course which decides whether or not the student will pursue it and make a success of his work. It is a matter of knowing what you want and finding out where to get it that stands in the way of more men standing in the forefront of certain professions. In agriculture there are so many bits of intensely interesting knowledge, there are so many paths the persistent student can follow that it comes down to the choice from a large number rather than settling upon one which appeals most.

Agriculture embraces all activities having to do with products of the soil. The entire field of animal and human nutrition might well be included in its scope. The entire field of food production is included. Then there is the production of plants to produce the food and the culture of decorative shrubs and trees as well as those having special properties as food bearers or contributors to the economic welfare of the nation in some other manner.

Forestry, for instance, is actually a part of agriculture and yet in itself it presents a greatly varied number of pursuits for pleasure and profit. Not a few of these are connected with city life. In reviewing them we find the city forester, an official of all up to date municipal governments, who guards the trees against injury by protecting them with proper safeguards, who has charge of selecting and planting trees as they are needed and caring for those monarchs of the forest which are already the pride of most of our cities.

He has his counterpart in the landscape gardener and architect. The former propagates shrubbery and plants desirable for park spaces, puts them into the ground at the proper season of the year and watches over them, keeping them trimmed and looking their best. His co-worker, the landscape architect, designs the parks and private grounds, lays out golf courses and in general adds to the beauty of the American city.

There is the fascinating study of fruits and vegetables which leads to positions of independence as producers and fits students for technical work in the great orchards,

vineyards and truck gardens of the state. Several M. A. C. graduates who studied horticulture in college are now connected with the advertising departments of various fruit distributing organizations in the far west or are doing other important work in connection with them. They find places in tree nurseries and wholesale houses. Some become marketing experts and control the policies of municipal markets, helping the householder and producer solve the problem of coming closer together, and eliminating many of the difficulties on both sides.

There is the expert in creamery operation who operates the large creameries with which the state is dotted. He finds he can specialize in the production of ice cream and fill a need in several of the larger cities. Or another man will become superintendent of one of the great dairy farms supplying milk to cities.

From the merely aesthetic side of forestry you can go to the practical side. M. A. C. men are operating the large dry kilns where lumber is prepared for the automobile and furniture manufacturer. They are at the head of large mills turning out lumber of all kinds, they make paper and preserve timbers for bridges and railroad ties. State forestry programs offer positions to trained men in this line. Public utilities find that they need technical foresters to care for the trees along their lines and large estates need caretakers who have the ability to conserve the valuable trees decorating them.

Veterinarians are no longer horse doctors. They are specialists in the large establishments making medicinal preparations, they are inspectors of meats and milks for national and city governments and they are important factors in the general health of any large community.

In the common or farm variety of agriculture there is much to commend the course to the student from the city. There is an opportunity for life in the open and there is the almost unlimited number of different branches in which there is a demand for experts. Government work takes a large number of these, private and corporation work still a larger number. In fact but a small percentage of these men return to the farms to earn their livings the way their parents did because there is too much of a demand for their knowledge



and training in other places. Agriculture is perhaps the oldest pursuit known to man but it has just lately become a science where technical knowledge of an intensive sort is needed for the farmer to keep ahead of his neighbors. It is a highly scientific pursuit where a broad knowledge is necessary.

## TWO SOLOISTS WILL BE WITH ORCHESTRA

The Chicago Symphony orchestra with seventy musicians will present two concerts at the gymnasium on May 21. Alfred Wellenstein, cellist, and Nina Hager, contralto, will appear as soloists. The concerts will be given at 3 o'clock and 8 o'clock. All seats will be reserved and Prof. A. J. Clark has charge of the ticket sale.

The Chicago Symphony is one of the oldest organizations of its type. It was founded in 1891 by Theodore Thomas and has been noted since its inception for its high class work and the prominence of the artists on its rolls.

Additional interest is attached to its appearance here because Erick Delamarter, assistant director, is a native of Lansing. He and Frederick Stock will conduct the orchestra in its concerts here.

## TENNIS TEAM TIES FOR FIRST HONORS

Winning the men's events and losing the women's took the M. A. C. tennis team into a tie for first place in the invitational meet which brought eight teams to East Lansing on May 4 and 5. Kalamazoo Normal reversed the victories of the local net stars and ended in first place with the Green and White. Cummings, Coe and Croll stood the brunt of the attack and made their way through the finals without a defeat, except that in the singles Cummings defeated Croll for first place. The M. A. C. Fresh failed to place and Detroit College of Law landed next to last with but one match to its credit.

The teams stood as follows at the end of the competition: M. A. C. 13, Western State Normal 13, Ypsilanti 8, Kalamazoo College 5, Albion 3, Mt. Pleasant Normal 2, Detroit College of Law, 1, M. A. C. Fresh 0.

Charles Herrman, '97, of Minneapolis, sailed for Europe May 12 with Mrs. Herrman and their daughter for a summer tour.

# CONCERT

## May 17

8:00 P. M.

College  
Gymnasium



## Mary Allen

'09

Auspices

The Alumnae Council

Benefit

Union Memorial Building Fund



# CLASS NOTES

'94

E. V. Johnston may be addressed at 7378 Churchill street, Detroit.

'03

The post office department at Dayton, Ohio, sends notification of the change in address of T. P. Chase to 1104 Far Hills avenue.

'05

Mrs. Sherwood Hinds died April 16, 1923, at her home, 7521 Harter avenue, St. Louis, Missouri. Mrs. Hinds was the wife of Sherwood Hinds, factory manager of the St. Louis Pump and Equipment Co.

'10

Gordon Cavanagh is still with the William A. Baehr company of Chicago and assures a hearty welcome to M. A. Cites at either the Illinois Merchants Bank building, 230 S. Clark street, or 524 Wisconsin avenue, Oak Park.

'11

V. G. Anderson is in the production department of the Bay City Industrial Works and lives at 421 Park avenue.

"No change in address or occupation—farming near Onsted, Michigan, and would be happy to see any M. A. Cite at any time," writes A. E. Brainard. He continues: "Born to Mr. and Mrs. H. F. Knoblauch, '11, on April 3, 1923, a daughter, Charlotte M. Born to Mr. and Mrs. 'Dutch' Leonardson, '13, a boy, William Owen, on April 20. On account of heavy business duty of bringing up a family of two it has been necessary for him, or at least he has disposed of his general store at Britton and is now giving entire attention to the aforementioned family. On April 17, Miss Marjorie E. Place, of Adrian, and Howard Chapel, '21, of Blissfield, were married in Adrian. Mr. Chapel is cashier in one of the Blissfield banks and Mrs. Chapel was former Boys' and Girls' Club leader in Lenawee county."

'12

Arlie D. Badour is attending the Harvard School of Landscape Architecture and lives at 1734 Cambridge street, Cambridge. He writes: "Sen Yu, also a former student of M. A. C., is here, and he and I often get together and talk over things at the college. I have seen Harold Bird once or twice, who is taking some work in one of the other graduate schools. I had many pleasant chats with Prof. Halligan last summer during summer school. I used to think that I had to work hard when I was at M. A. C., but I appreciate since I have been here that I had it

rather easy there. I shall always remember those four years I spent there as amongst the happiest."

Mail addressed to Ralph Burton at 234 Randolph street, Detroit, has been returned unclaimed.

'14

According to information from the Syracuse post office, P. E. Geeldhof is now reached at 219 McLennon avenue.

'15

Fred and Orene Smith ('17) Moran have been located in Pea Ridge, Arkansas, where Fred is teaching Smith-Hughes agriculture.

Post office authorities request us to change the address of Ernest Chamberlain from the American Legion hospital at Battle Creek to 824 Turner avenue, Grand Rapids.

Douglas E. and Laura Cole ('16) Phillips, Bad Axe, Michigan, announce the arrival of Russell Cole on April 28, 1923.

Addie Gladden Donald is still in Owosso, R. F. D. 1, Box 95.

Helen Pratt Shane sends in her blue slip from Manistique, Mich.

'17

Mail addressed to W. Harold Cornelius at 2764 Second avenue, Detroit, has been returned unclaimed.

Captain Frank G. Chaddock writes: "Changed stations again. Please change my address to 9th Field Artillery, Fort Des Moines, Iowa. Leaving May 8 on 720 mile march to Fort Riley, Kansas, and return for summer target practice. Met Jack O'Callaghan, '17, in LaCrosse, Wisconsin, some time ago. He is located in Milwaukee and is selling bonds for Strauss company."

Harold and Mary Baldwin ('15) Canfield announce the birth of James Baldwin on April 17, 1923. The Canfields are living in East Lansing where Harold is federal adviser in the veterans bureau at M. A. C.

H. N. Fox is in the electrical engineering department of the Consumers Power company at Jackson, and lives at 113 N. Thompson street.

Paul P. Smith has moved in Ashtabula, Ohio, to 591 Lake street, according to information received from the post office.

'18

According to R. M. Roland, '15, Percy Parkyn is tester for the Calhoun county testing association and may be reached at Jonesville, Michigan.

Muriel Dundas succeeded Bernice Woodworth, '17, as home demonstration agent at Allegan, Michigan. Miss Woodworth is now located in Dearborn, home demonstration

agent for Wayne county. Frances Dundas, w'22, will be graduated from Oberlin college in June.

'19

E. R. VanLeeuwen should be addressed in care of the Japanese Beetle Laboratory, River-ton, New Jersey. He writes: "Since writing to you last, I have been transferred from the Medford, Oregon, field station and placed in charge of the beetle insecticide division of the Japanese beetle project. I have a rather difficult problem here since the beetle is considered the worst pest ever introduced in the country. It has been recorded as attacking 210 species of plants and no poison has been found to prevent the injury. It is spreading at the rate of ten miles each year and increasing 50 per cent."

'20

Walter E. Webb is head of the park department at Mitchell, South Dakota.

Edna Ceas is living in Monroe with Ray, '13, and Mrs. Service and is teaching in the same school system with Lillian Stewart Navarre, w'16, Clarence Hiller, '20, Oletta Coverdale Hiiller, '21, Belle Farley, '22, and Flossie Bosworth, w'21.

Deborah Cummings Knott writes from 351 Federal building, Newport, Rhode Island: "We are relinquishing our corner on the Farm Bureau office in Newport where I've been home demonstration agent a year and a half, my husband (R. I. State '20) the agricultural agent for three years. We will be in Ithaca, New York by July 1, where Mr. Knott will be graduate assistant in the vegetable gardening department of the New York college of agriculture and also take work for a master's degree. 'At home' in the Collingwood residence at 320 Elm street. Welcome. G. Harris Collingwood began work with the U. S. Department of Agriculture as specialist in forestry the middle of April. The family will go to Centreville, Michigan, where they will make their home with Mrs. Collingwood's father.

'21

Our old reliable, the post office department, says that Frances Moak is now at 1133 Pine street, Port Huron.

T. S. Blair is temporarily located in East Lansing at the Hermian house.

H. E. Frank is testing cows for the North Eaton Cooperative Testing association and gets his mail through general delivery, Grand Ledge. He reports five M. A. C. men members, C. I. Brunger, John B. Strange, George McMullen, E. L. Raven, M. W. Sprague.

Our old and sometimes reliable source of in-

formation, the post office, says that Marshall Draper is now at 309 Fifteenth street, Port Huron; William W. Redfern is at Dimondale; Ralph R. Clark has moved to 2729 Kerckhoff avenue, San Pedro, California, and Christo Christoulas is now at 162 LaBelle street, Highland Park, Mich.

The following letter comes from Neal H. Fenkell: "At present I am at 284 Vanderbilt avenue, Brooklyn, New York, and expect to be here for some time, perhaps the rest of the year. Am still with the T. A. Gillespie company and am endeavoring to lend my assistance in the building of an eight mile conduit of 72-inch pipe here in Brooklyn. When completed the line will for ma part of the Catskill aquaduct system. This is certainly a wonderful city, with its shows, parks, museums and other places of interest. Haven't seen the Follies yet, but hope to make it before long. Glad to see the subscriptions to the Memorial building are coming in so good. Note there is a branch of the association here in New York and would like to get into touch with the secretary."

'22

61 Frelinghuysen avenue, Battle Creek, should now be the mailing address of Mildred Freeman.

Harold and Eileen Seble Koopman should be addressed at Box 238, Sebawaing, Michigan.

Reid L. Raynor is graduate assistant in electrical engineering at M. A. C. and lives at 244 Grand River avenue, East Lansing.

Stewart Farr is graduate assistant in agriculture at Iowa State College and expects to complete his work for an M. S. at the end of the summer vacation.

Frederick Knox is a graduate assistant in farm crops at M. A. C.

Melvin D. Westcott has moved in Chicago to 1420 E. Marquette Road.

FOR RENT—During summer school, furnished 7-room semi-bungalow, with garage and garden, on Sunset Lane, East Lansing. Write R. A. Rannels, '16, at Surgery and Clinic Bldg., East Lansing, Mich.

E. N. PAGELSEN, '89, Patent Attorney  
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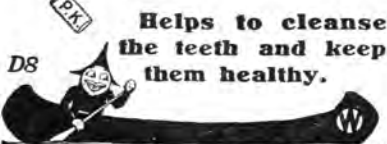
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