The MAC RECORD

The Union Memorial Building Fund by Classes.

The Chemical Engineering Department by Prof. H. S. Reed.

Aggie Basketmen Humble Michigan, 34-27.

"MAC cannot live on Her past - What will you do for Her future?"

The MICHIGAN AGRICULTURAL COLLEGE ASSOCIATION - East Lansing, Michigan Publishers
ALUMNI BUSINESS AND PROFESSIONAL DIRECTORY


THE M. A. C. RECORD.
A GREAT MANY FROM the college turned out Wednesday evening to hear General Leonard Wood, candidate for the republican presidential nomination who spoke at Prudden auditorium in Lansing. The college was also well represented at the informal dinner tendered General Wood by Lansing business men at the Down­ ewo Hotel at 6 o'clock. Judge C. B. Collingwood, '85, presided at the meeting and Fred L. Woodworth, '98, who has been announced as in charge of the general's campaign in Michigan was among those at the honor table.

THE RURAL RECREATIONAL and Social Club, which was recently organized among M. A. C. students, has been asked to stage a "Little Theater" at the Michigan State Fair in Detroit next fall. Several one-act plays will be presented at that time. Dr. Ward Gillette will address the club at a regular meeting next Monday night, March 8.

ONE FEATURE of the Short Course commencement exercises was the first Annual Livestock Judging contest. Four teams of five men each did the judging, and the interest was keen. Prizes were donated by Wayland D. Stearns, a second year Eight Weeks man from Detroit. Mr. Stearns has also made an endowment of $50 a year for the next five years. for use in furthering Short Course interests. Prizes and contests, assistance to needy students, and increasing attendance were given as acceptable uses. This has been the most successful year from point of attendance and variety of courses given, in the history of short courses at the college. The attendance to date totals 604.

AT A RECENT CONFERENCE of extension leaders held in Des Moines, Iowa, the following M. A. C. people con­gregated: Edna V. Smith, '03, Barbara Van Heiden, '10, R. A. Turner, '09, Chester Spaulding, '11, "Dad" Roland, '15, Lytton Catrow, '18, Dr. Eben Mumford, state leader of county agents, and Miss Maud Gilchrist, formerly Dean of Women at the college.

A SPECIAL COMMITTEE of the Michigan State Fair Association met at the college on February 26, for the purpose of investigating educational exhibits and the interest was keen. The committee made an endowment of $50 a year for the next five years. for use in furthering Short Course interests. Prizes and contests, assistance to needy students, and increasing attendance were given as acceptable uses. This has been the most successful year from point of attendance and variety of courses given, in the history of short courses at the college. The attendance to date totals 604.

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Entered as second-class matter October 3rd, 1914, at the post office at East Lansing, Michigan, under the Act of March 3, 1879.

Published every Friday during the College Year by the Michigan Agricultural College Association.

W. K. Prudden, '78, Lansing, President.
E. W. Ranney, '00, Greenville, Vice-President.
H. H. Musserman, '08, East Lansing, Treasurer.
C. W. McKibbin, '11, East Lansing, Secretary and Editor.
May E. Foley, '18, Assistant Secretary.
Dr. C. H. House, Associate Editor.

Elected at Large:
A. C. McKinney, '95, Bay City.
Anna Cowles, '15, East Lansing.
Alexander MacVittie, '11, Caro.

MEMBERSHIP IN THE M. A. C. ASSOCIATION which includes subscription to the Record, $2.00 PER YEAR.

Make Remittances payable to the M. A. C. Association. Unless members request a discontinuance, they are continued as members.

FRIDAY, MARCH 5, 1920.

CAMPAIGN PROGRESS.

Influenza—at its height during Drive Week—hit the campaign hard but in spite of it the Fund is practically half raised. Many local committees have not been able to make personal canvassing because of business and flu among their committee-men and throughout their territory. In many Michigan counties, chairmen are waiting for clearing weather and better roads so that they can get around to everyone.

The total amount comes from less than 800 subscriptions. We have 4,500 on our lists who can be considered prospective subscribers. In other words, 17.5% of M. A. C. people have "kicked in." 83% haven't been heard from at all. With 17.5% of our people giving we have barely scratched the surface yet, but from the "pay dirt" on the surface, we know there is real gold underneath and it is simply a matter of going in after it. Our committees adopted a watchword to "give every Michigan Aggie a personally presented chance to give to the Memorial Building." "Dad" Roland, '15, out in Missouri where they have to be shown, says, "We are going to get something from every one in this region before we will quit."

Let's all get into the same wagon with "Dad" and drive on. There are 83% more to work on.

Almost every college and university in America has a drive on for memorials, or buildings or endowments. Almost every college student of M. A. C. would surely feel out of it and behind the times were they not called upon to do something for Alma Mater. There are no institutions with a more worthy purpose than our own. When college men and women talking of their fund campaigns we can take pride in being abreast of the times in alumni endeavor.

GAUTHIER '14 LEAVES COLLEGE.

George E. Gauthier, '14, assistant athletic director and coach of football, basketball and track teams at M. A. C. for the past six years, has tendered his resignation to the college to leave M. A. C. early in April to take up work as municipal athletic and recreational director at Bay City. This will include the organization of athletics and physical training in the schools as well as throughout the city.

The position is a new one just created by the city and is closely connected with the community athletic and physical training work that is now being organized by the national government.

About the campus, the assistant director has been known to ten years of Michigan Aggies as "Goochie," and has won a place in their hearts through his love for clean sportsmanship, his clean-cut, businesslike demeanor and the energy and pep with which he has pushed many Aggie teams to victory. He was a member of the winning football teams of 1911, '12 and '13 and is considered the best quarterback that has ever generated an Aggie team.

Immediate steps are being taken by the Athletic Board of Control to replace the large-sized vacancy that he leaves in the athletic staff. That there will be difficulty in lining up someone suitable to fill his shoes was evidenced at this week's meeting of the board, for not only has he done the major part of coaching football and track athletics for M. A. C., but he has had the entire charge of basketball teams, and track athletics for M. A. C, but the board, for not only has he done his work early in April. The college family will greatly miss both Mr. and Mrs. Gauthier (Evelyn Harbotte, '14), who have been very popular among both faculty and students.

THE FUND BY CLASSES.

On February 28 the Union Memorial Building Fund stood as follows by classes. At that time but 17% of the graduates and former students had subscribed according to the alumni office records, although a number of local committees have not reported their results and many have not yet had an opportunity to carry on their local campaigns, because of the influenza epidemic. Under the column of subscribers are included former students, as well as graduates, but the number of living graduates are given as an indication of the size of each class.

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The Alumni of Johns Hopkins have organized a varsity club, the object of which is to promote interest in school athletics in the alumni and broaden the scope of the university's athletic campaign.
Detroit Alumni Planning Activities.

As a preliminary to a series of social events and get-togethers to be held during the coming spring and summer, alumni and former students living in and near Detroit will hold a smoker and buffet lunch at the Felker Club, Washington Boulevard, on Friday, March 12, at 8 p.m.

The Detroit M. A. C. club is a little over a year old as it is now organized. Since its reorganization, the officers and members have been working to develop a real M. A. C. spirit and to put the college on the map in Detroit in such a way that the citizens in this part of the state will realize that there is a real, live institution in East Lansing. That these plans are bearing fruit is shown, for instance, by the large gatherings each Wednesday for luncheon at the Board of Commerce.

In order to develop the old spirit to a still greater degree, every alumni and former student in this section of the state is invited to attend the smoker and buffet lunch on March 12 where each one will be given an opportunity to express his ideas as to methods to be employed in arousing interest in the college and also as to ways and means of making the Detroit Association more effective.

A special invitation is extended to those who are unable to come to the Wednesday luncheons and to those from out of town who are in the city that evening. A rousing good time is assured to all comers.

Northeast Michigan Alumni to Meet.

The Northeastern Michigan M. A. C. Association which has been dormant for a period is reviving M. A. C. enthusiasm for a meeting at the Canoe Club at Saginaw on Monday evening, March 6, at 7:30.

Because of the numbers of M. A. C. people in both Saginaw and Bay City, the Northeastern Association has had its interest more or less divided of late and now contemplates the dissolution of the Northeastern Michigan into a Saginaw and Bay City Association. It is probable that the new associations will be placed on their feet at this meeting.

E. W. Ranney, '90, campaign director for the Memorial District and Director Brewer of the college, will be the Association's guests at the meeting.

Alumni and former students in the vicinity are invited and should communicate at once with Daniel H. Ellie, 616 Owen St., Saginaw.

Campaign Notes.


"I found a blank subscription card in the subway this morning and you must know that it acted as a most vigorous reminder of the fact that the campaign was on and that my pledge for the Memorial Building had gone in to East Lansing. So here it is."—Anna Cowles, '15.

J. B. Cotton, '86, Makes Unique Pledge.

Joseph B. Cotton, '86, of New York, has made a rather unusual subscription to the Memorial Building. Following graduation Mr. Cotton taught mathematics at M. A. C. for two years. His salary was $500 a year. In making his pledge of $1,500 to the Memorial Building Mr. Cotton calculates that it represents his two years salary plus accrued interest on the amount since that time.

Class of '18.

Let's Go! The June 20th Record showed only one subscription from our class—that of our one girl Ag. Hazel E. Deadman. We have well over 200 members and should average $25.00 each. Let's set our goal at $4,000.00 and then beat it.

William M. Coulter, Ag. Sec.

Subscribers Ranked by Amount.

$5,000—W. K. Prudden, '78.
$2,000—Clarence E. Smith, '84. Mr. and Mrs. J. W. Beaumont, '82.
$1,000—W. H. Vandervoort, '89. W. L. Harvey, '93; O. E. Sovereign, '01; Horace Thomas, '01; H. A. Haight, '74.
$500—Roswell Lillie, '70; A. C. Bird Estate; F. C. Miller, '70; Jas. S. Holden, '93; Frank Johnson, '95; C. W. Garfield, '70.
$400—E. J. Krauss, '97.

Aggies Humble Michigan.

With a return to early form, the Michigan Aggie five downed Michigan under a score of 34 to 27 at East Lansing, Saturday night. The Green and White grabbed at the beginning of the game, and although they were tied twice in the second half, they never allowed the blue-clad athletes any advantage. It was the second game of the season in which the Aggies triumphed decisively over the Ann Arbor quintet.

A crowd that completely filled the big gym and which in numbers hovered around the three thousand mark saw the Gauthier men issue their defeat to Michigan.

"Chuck" Higbie, Aggie forward, dominated the list of individual scorers with a total of sixteen points. The veteran tosser had his eye with his hands and very few of his attempts went wide.

Karpus, the Michigan star who has just returned to the Yellow and Blue squad after a period of ineligibility, followed Higbie in the scoring with thirteen points. With a total of ten points, all scored from the field Eddie Gilkey, the little Aggie forward, came next on the list.

Kurtz again played his brilliant and consistent defensive game and at the same time managed to get under the basket for a trio of goals.

Scoring started in the first few minutes of the game. The ball was tossed in the center, Foster got the jump and after two short passes had given him the ball immediately under the Michigan basket shot for the first two points of the game. The clocklike regularity with which the ball was worked convinced the fans that the Aggies were back on the game and brought them to their feet with a roar.
At the end of the half the score was 16 to 15 with the Aggies up. Both teams started at the same hot pace in the second period but for several minutes there was no scoring, finally the Aggies crawled to 20 points with the Wolverines trailing close behind.

Michigan failed to threaten the Green and White again and the game traveled the remaining few minutes with the margin increasing regularly.

M. A. C. (34) Michigan (27)
Gilkey R.F. Karpus
Higbie L.F. Weiss
Foster Gr. Dunne
Kurtz R.G. Rea
Garratt L.G. Wilson
Field goals—Aggies: Higbie, 6; Gilkey, 5; Kurtz, 3; Foster, Michigan: Karpus, 4; Dunne, 3; Weiss, 2; Henderson, 2.
Referee—Fields, Grand Rapids Y.

THE DEPARTMENTS.

The chemical engineering department is comparatively new having been established during the war. We feel that alumni engineers will be particularly interested in learning of the work that is being done, and pleased with M. A. C.'s progress in engineering lines, represented by its establishment. The laboratories, fitted with the most up to date industrial equipment, are ranked among the best in any institutions in the country.

Chemical Engineering.

By Prof. Harry S. Reed, '06.

The basic science of chemistry has always been a required subject of all students of M. A. C. The courses in chemistry instigated by Dr. Robert Foster Kedzie and amplified by his son, Dr. Frank S. Kedzie while being based on scientific foundations were so presented to the student to emphasize the practical applications of the science. Largely through the influence of these two men the teaching in the chemistry department has always been to give the student theoreti-cal knowledge but at the same time teach him to do something useful.

The chemical engineering course is the outgrowth of this idea coupled with demand of the times for specially trained men of this character. Practically all industry is dependent in some measure on the services of the chemist. The chemical engineering course is the outgrowth of this idea coupled with demand of the times for specially trained men of this character. Practically all industry is dependent in some measure on the services of the chemist. The chemical engineering course is the outgrowth of this idea coupled with demand of the times for specially trained men of this character. Practically all industry is dependent in some measure on the services of the chemist.

The above accomplishments, of course, were brought about by war necessity but they have produced results many far reaching than to supply needed materials caused by the war cutting off previous channels of supply. The whole business interests of the country have been impressed by the value of the chemist until there is practically no business which at sometime in some form does not employ the services of the chemist—even to the bankers. Some years ago the banker and the chemist were as far apart as may be imagined. In those days the chemist took his somewhat inadequate monthly stipend to the bank and deposited it on the last day of the month only to check it all out again on the next day. This constituted about the only business relation between the banker and the chemist excepting that the chemist occasionally received a notice of overdraft. However, nowadays many big banks retain chemists permanently on their staffs. Loans are granted or refused upon the advice of the chemist as to the probability of success or failure of plant operation, processes, markets, etc.

The positions which the chemist is required to fill are very diversified in character. M. A. C. chemical engineers are trained in such fundamentals as will enable them through experience to attain such positions in the chemical industries as analyst, foreman, superintendent, technologist, consulting chemical engineer, works manager, general manager, etc. The first two years of the course so far as chemistry is concerned are devoted to general academic work teaching the fundamentals of chemical science and including a thorough grounding in the study of technical subjects as metallurgy, fuels, and the manufacture of typical industrial chemicals. Two classes of difficulties continually beset the industrial chemist, chemical and mechanical, most of which are fully met in his training the student is required to take such subjects in the mechanical, electrical, and civil engineering departments as are necessary.

To insure the chemical engineer who graduates from M. A. C. the greatest opportunity for success we believe it advisable to familiarize him with what he will be up against in industrial life. So the college has thoroughly equipped two laboratories for this purpose. One the metallurgical and fuels laboratory in the Engineering building and the other the industrial chemical laboratory back of Wells Hall. The metallurgical and fuels laboratory is in two divisions. The first where the student prepares a certain typical industrial chemical on a laboratory scale, the second where he prepares the same product on a semi-manufacturing basis and becomes familiar with the construction and use of standard pieces of apparatus, smaller, but of exactly the same design and same materials of construction which he will later use at plant works.

This laboratory is absolutely a new feature at M. A. C. and from the experience of the writer is not excelled in but few instances. It is equipped with a 50-gallon sulphonator, a 10-gallon nitric acid, a 10-gallon reducer, a 10-gallon autoclave for working pressures up to 1,000 pounds per square inch, a 10-gallon vacuum pan, a 10-gallon steam jacketed kettle with agitator, a 30-gallon steam jacketed kettles, a 25-gallon still fitted with a direct condenser and rectifying column and extraction cell, a hydroextractor, two filter presses, a suction filter, grinding mills, an air compressor and vacuum pumps, a 50-gallon pressure tank, separators, crystallizing tanks, etc.

In the industrial laboratory the chemical engineer studies a problem in its entirety, searching the literature and patents, making the preliminary laboratory preparations to determine the most efficient process, studying means of control, determining manufacturing difficulties, calculating manufacturing costs, designing of plant, and actually manufacturing chemicals in pound and not gram lots. In fact we believe that when the chemical engineer graduates from M. A. C. he will be well fortified to meet competition which must come in industrial life.
TO PUSH TRACK SPORTS.

Great efforts are to be made by the athletic department to build up the ranking of varsity track teams in the next few years. The plan is to make this sport second only to football. The two sports which rank highest in colleges of America are football and track. Track at M. A. C. has been negligible in the past, but if the plans of M. A. C. officials go through it will take a major place in varsity sports very soon.

With the completion of the Aggie indoor track, much interest is centering in such events within doors. A schedule of three meets has been prepared for the indoor season this year and six for the outdoor track. The indoor meets are all dual in nature and will be held at M. A. C.

Complete schedules of these meets follow:

INDOOR EVENTS.

March 5—Kalamazoo college at East Lansing.
March 13—Notre Dame at East Lansing.

OUTDOOR MEETS.

March 5—Interclass meet at East Lansing.
May 2—Detroit Junior college at East Lansing.
May 2—De Pauw at East Lansing.
May 29—State Intercollegiate at East Lansing.
June 5—Western Conference at Ann Arbor.

BECAUSE of the proximity and class of the Conference meet at Ann Arbor this year, it is planned to take the whole Aggie track squad to the event.

DETOITERS TO HEAR M. A. C. GLEE CLUB.

On April 10 the M. A. C. Glee Club, composed of thirty-two members, will give an entertainment at the 14th Ave. Baptist church, corner of 14th and Marquette avenues, under the auspices of the O. V. R. class, an organization of young men, of which A. E. Downer, '19, is president.

Of course, college songs and humorous selections will predominate the program but several numbers of a heavier nature will be presented. A special feature will be the production of an Agricultural Farce set to music and presented by eight members of the Glee Club in costume, which is calculated to make Detroit Aggies beg:

"Oh, Time, in thy flight!
Make me a college student again,
Just for tonight!"

For further information, reservation of tickets, etc., call or see A. E. Downer, '19, 621 McGraw Ave., Phone Walnut 3163 R.

THE M. A. C. RECORD.

OBITUARY.

Capt. Haigh, with '61.

Captain George Williams Haigh who entered M. A. C. with the first class in 1857, died at his home in Dearborn on February 28, following an attack of influenza. He was in his eighty-second year and one of the oldest members of the M. A. C. Association. He was a most ardent lover of M. A. C. and was never happier than when reconquering the early trials and final triumphs of his Alma Mater. He helped clear the stumps from around Old Saints Rest and Old College Hall and to fell the native forest trees from the fields which now constitute the college campus.

At the outbreak of the Civil War he enlisted at the college with nearly all the other students, so many, indeed as to almost break up the school and he served a year in Missouri under Fremont. Later he enlisted as a private in the famous 24th Michigan Volunteer Infantry, which was recruited entirely from his home county. Before the regiment left Detroit he was made orderly sergeant of his company and later rose by successive promotions for merit to be the captain of Company D. He served continuously till the close of the war, taking part in all the hard fought battles of the Army of the Potomac. He was wounded in the right hand at Cold Harbor and again, very seriously, in the right leg, at Gettysburg, where he was taken prisoner, but was subsequently paroled.

At the close of the war he returned to Dearborn and in 1868 married Esther J. Marsden, an adopted sister of Alfred, Frank, Richard and Orrin Gulley, all since graduates of M. A. C. In 1873 he removed to Minnesota, then the farming Eldorado of the west, where he resided for 42 years, breaking up and developing a fairly large and successful farm.

About eight years ago he returned to his old home in Dearborn, where he has since resided and where he has taken intense interest in all current events and has been a most ardent supporter of M. A. C. in all her endeavors. He has been a faithful and enthusiastic attendant at all recent M. A. C. reunions and has stood out in this staid uniform with its snowy white head being a familiar figure on the campus around reunion time.

Captain Haigh was born in Water­loo, New York, in 1836, and came to Michigan with his brother Richard Haigh, about seventeen years ago and lived at the old Haigh home­stead in Dearborn until he entered M. A. C. in 1857. Though the Civil War deprived him of the priceless privilege of graduation, he felt himself none the less an alumnus of M. A. C. and he kept himself in sympathetic touch with all her interests. His death deprives the college of nearly the last of her devoted children who came to her at the beginning in 1857.

The fact that all of Captain Haigh's brothers and his only sister attended M. A. C. nearly all graduating, serves to show his attachment and that of his family for this institution and its objects. He himself entered in 1857, his brother Thomas in 1859, both being swept away from college by the Civil War. His brother Richard entered in 1864 and graduated in 1869; his brother Henry entered in 1870 and graduated in 1874, and his only sister Beasie married Frank Gulley who graduated in 1880 and was given an advanced degree in 1882. She attended the college during these years but did not graduate. Also this attachment is emphasized by the further fact that all the male members of the Gulley family of Dearborn, to which Capt. Haigh's wife belonged, were graduates or officers of M. A. C. Alfred B. Gulley was professor of agriculture 1857. Alfred Gulley graduated in 1886, Richard Gulley in 1879, Orrin Gulley in 1879 and Frank in 1880.

In the Military museum recently established at M. A. C. will be found a beautiful old gold-seabard officers' sword which was captured by Capt. Haigh from a rebel staff officer at the Battle of Gettysburg; also the six­­shot revolver carried by Capt. Haigh's brother through the Civil War.

He was a most interesting conversa­tionist, always of decided views, and he was a fairly facile writer. The files of M. A. C. Record show communica­tions from him on Early Days at M. A. C. on Results of M. A. C.'s Work and on other subjects akin to the college.

His funeral held on March 24 was from the old homestead in Dearborn, which he loved so much and his re­ains were followed to the village cemetery by members of the local military posts, by Civil War Veterans from Detroit and by hosts of old friends from the surrounding country.

—H. A. H., '74.

Mrs. V. C. Schaeffer (Elizabeth Dorgan) w. '15.

Mrs. Elizabeth Dorgan Schaeffer, w15, wife of Vern C. Schaeffer, '11, died at their home in Sturgis, Michigan, on February 17 of pneumonia, following influenza. Mrs. Schaeffer was popularly known as "Betty" Dorgan in college and is a sister of Albert Dorgan, '14, of Detroit. She spent two years at M. A. C. Besides her husband, a week-old baby girl survives her.

AN ERROR.

In the minutes of the February meeting of the State Board of Agriculture which were printed on page 7 last week it was stated that the make
up of the Board of Control of Athletics included two alumni of the fac-

V
tity whose appointment was approved by the pres-

cident. This was in error and should have read "Two of the Faculty ap-

pointed by the president."

Clarence E. Holmes of Lansing, su-

perintendent of the School for the Blind, delivered the Short Course Commencement address at the college on Friday, February 27.

Clarence M. Weed, of the U. S. School of Education, Washington, D. C., was a college visitor on February 27.

E. Carl Bank, who has been super-

intendent of the Preston School of Indus-

tory, at Fullerton, Calif., is now located at Berkeley, Calif., as a sales-

man. He is living at 2540 Webster

Place. '90. E. J. Frost (with) president of the Frost Gear and Forge Co., manufac-

turers of gears and drop forgings, Kansas City, Mo., and president of the American Drop Forge Association and is on five committees of the organization. These duties require frequent trips to New York and Philadelphia.

Dr. Myron S. Gregory is a practicing physician in Oklahoma City, Oka-

lahoma, specializing in nervous and mental diseases. He lives at 115 W. Grand.

E. J. Frost (with) president of the Frost Gear and Forge Co., manufacturers of gears and drop forgings, Jackson, Mich., recently re-

lected president of the American Drop Forge Association and is on five committees of the organization. These duties require frequent trips to New York and Philadelphia.

Frank H. Sanford of the forestry department, gave a lecture on "Ever-

greens," before the Grove Point Gar-

den Club of Detroit recently. The lecture was largely devoted to the architectural characteristics of the different species, soil, diosynecies, seeding and propagation, were discussed. An ac-

count of the history of the grove described it as one of the most enjoy-

able of the groves in the country. The club had arranged this year.

Julia F. Grant is supervisor of sew-

ing in the five Detroit public schools, and lives at 266 W. Ferry St.

1. L. Blake (with) is district agent for the Methodist Episcopal Church, with headquarters at 51-56 Penobscot

Building, Detroit.

A. Fisk is now in Chicago, at 4138 Jackson Blvd.

V. R. Gardner, professor pomerology at Columbia, Mo., lives at 266 Hicks Ave.

Ernest F. Smith is in the grocery business under the firm name of Pen-

som in the east of Michigan. He is living at 71 Byron St.

Marion Thomas Rubs, 3445 Bowser Ave., Chicago, writes: "Housewives are not supposed to be occupied, their work is unendurable. I am working 12 hours a day. I do quite a bit of playing. Our daughter, Helen E., who will be twelve years old in June, is looking forward to college with a good deal of enthu-

...is a consulting engineer at 630 Mc-

Kercher building.

Max L. Tower, chemical director for the Niagara Sprayer Co., lives at 9 Rekeweg Ave., Detroit.

D. H. Shannon, engineer in the con-

struction department of the Detroit Edison Co., Inc., is now living at 615 An-

toine st.

William Carl Chapman and Mrs. OI. C. Back (with) of 9400 Tiverton Ave., St. Louis, Mo., are now living at 74 Rue Boulevard, Plllham, New York. They spent the last of the long winter days when it was affectionately known as the "college Lemon," we rathah regret to print so much about the alumni, but I can un-

derstand now. Behold! The Lemon is all play. According to that I do quite a bit of playing. Our

daughter, Helen E., who will be twelve years old in June, is looking forward to college with a good deal of en-

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R. J. Van Winkle, 108 Pilgrim Ave., Detroit, is a mechanical engineer for the Riepley Power Plant design and mechanical layouts of industrial buildings.

M. E. Dickson is living at 4919 Lake-

side Ave., Chicago.

H. Groothuis is connected with the firm of Esselstyn, Murphy & Hanford, engineering consultants, specializing in Power Plant design and mechanical layouts of industrial buildings.

Mado Lomeraux who was last connected with the University of Kentucky at Lexington, is now living in Grand Rapids, has been visit-

ing Louis Clement and his friends at the college for ten days.

G. W. Massick, 2136 Sixth St., Bay City, writes, "Am connected with the Lewis Manufacturing Co. of this city in the capacity of general sales and advertising manager. The business is enjoying a remarkable growth. We are connected with Lewis Built Homes, shipping the com-

plete material for the home all manu-

factured ready to move in.

E. A. Yole (with) Apt. E, 465 Oak-

wood Ave., Toledo, since his return from France, has been with the Viliabs Mfg. Co. of Toledo, as sales engineer. He writes that Clarence M. Weed and Mrs. E. A. Yole, 131 W. Main St., Jackson and Mr.

Mrs. Hamilton live at 23 W. Washington St., Grand Rapids. Mr. Hamilton has been in a large number of agricultural publica-

tions over the country.

Earl H. Baglind is county engineer for Bay County, resigned the middle of February to become 'agricultural and indus-

trial' correspondent for a railroad. His headquarters will be at Grand Rapids, G. R. & I. Building.

Ernest E. Alden, "Short," 274 Meigs St., Rochester, N. Y., writes, "Since my discharge from the army in September I have been with the Eastman Kodak Company, in Rochester, N. Y., em-

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daughter, Helen E., who will be twelve years old in June, is looking forward to college with a good deal of en-

thusiasm. '07.
This little letter just came in this morning:

"From H. W. Jadwin, Fenton, "Am located on my father's farm of 269 acres. Milking 16 cows this winter. Married—yes, June 3, 1916, a boy and a girl."

"16."

Carol M. Davis, who is taking post graduate work at Columbia University, New York City, writes that she is enjoying her work, also New York City.

"I have been very proud to say that I was from the Michigan Agricultural University. Many experienced teachers are finding that their colleges are not up to the standard, and are forced to take an extra summer school or even another year in which to obtain an M. A. degree. I expect to get my degree June 1, 1920. I see Laverne Jones, '16, and Elizabeth Hartberg, '16. In fact Elizabeth is in one of my classes. Ann Cowles, '15, lives only four blocks from my apartment. I see her occasionally."

"I also heard Mr. Lindemann speak at the college in the interests of the Rural Club.""

H. Hewitt Miller, former football star, 1916, from Topeka, N. Y., sends this, "Am still single. About to venture in business. Much interested in everything and everybody with M. A. C.'s trademark upon it. Hope the dormitory fans win out, because it is there the rigorous and hardy germ of college spirit is sprouted and kept alive."

This from another warrior of the grid, Gideon E. Smith, "Just keep sending Records to the same old address. I don't want to miss any of them, for it is the only way I have to keep up with the great happenings in the spring Old School. A failure to receive one is equivalent to being absent from college for a week. Wish for a successful basketball season."

Glen Hacker, 266 S. Limestone, Lexington, Ky., writes, "Have been with the Kentucky Experiment Station since October, employed at present as creamery inspector under the creamery license law. Rooming with my old buddy, R. J. Morgan, '17, who is district agent for eastern Kentucky. We send regards to all our friends in East Lansing, and especially Hank Goss and Chuck Washburn."

Arnold L. Olsen is located at present at Twin Falls, Idaho, as representative of the Home Lends Co., Inc., of Wisconsin, which represents several lumber companies. They expect to start a western office and are interesting sheep men in the cutover lands of northern Wisconsin.

P. M. Landgord, Torrey Island, Florida, writes, "I left Michigan November 10, in a diller for the sunny south, along my father and two other fellows. Sure I had some trip down, stopped off to see Mammoth Cave and other points of interest. Arrived in Florida in the Everglades, where my family and I are located. We like the climate fine and also the soil. In my opinion in a few years these Upper Everglades will be the garden of the world. As you probably know, the muck soil here is ten feet to the rock, and about three feet to water, and rice is no name for it. Pigweeds grow here like young saplings, in our country, six inches through and 18 feet high. There is a pumpkin vine about 30 rods from where we live that bears 218 pumpkins from a single stalk, the stalk measuring 15 inches in circumference (This sounds bulky but seeing..."
The M. A. C. RECORD.

LARGEST IN THE WEST
No Initial Enrollment Fee Until March 15, 1920
The West Offers Very High Salaries
ENROLL EARLY
R. R. Alexander, Manager
Boise, Idaho

CLASS SECRETARIES.

Indiana
B. E. Benson, H., 22 Jackson Place, Indianapolis, Ind.
E. J. Foess, 90 Humboldt Ave., Detroit, Mich.


Wm. Couther, A. & H., Bu. of Plant Industry, Botany Annex, Univ. of Ill., Urbana.

Marion Pratt, H. E., Box 15, Royal Oak, Mich.

E. B. Benson, H., 22 Jackson Place, Indianapolis, Ind.
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W. T. Langley, '82, Constantine, R. F. D.
S. E. Cleveland, Ohio.

Willard Sanborn, '13.

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Some of the General Electric Company's Research Activities During the War:

- Submarine detection devices
- X-ray tube for medical service
- Electric telephone and telegraph
- Electric welding and applications
- Searchlights for the Army and Navy
- Electric furnaces for gun shrinkage
- Magneto insulation for air service
- Detonators for submarine mines
- Incendiary and smoke bombs
- Fixation of nitrogen
- Substitutes for materials

The Service of an Electrical Research Laboratory

The research facilities of the General Electric Company are an asset of world-wide importance, as recent war work has so clearly demonstrated. Their advantages in pursuits of peace made them of inestimable value in time of war.

A most interesting story tells of the devices evolved which substantially aided in solving one of the most pressing problems of the war—the submarine menace. Fanciful, but no less real, were the results attained in radio communication which enabled an aviator to control a fleet of flying battleships, and made possible the sending, without a wire, history-making messages and orders to ships at sea. Scarcely less important was the X-ray tube, specially designed for field hospital use and a notable contribution to the military surgical service. And many other products, for both combatant and industrial use, did their full share in securing the victory.

In the laboratories are employed highly trained physicists, chemists, metallurgists and engineers, some of whom are experts of international reputation. These men are working not only to convert the resources of Nature to be of service to man, but to increase the usefulness of electricity in every line of endeavor. Their achievements benefit every individual wherever electricity is used.

Scientific research works hand in hand with the development of new devices, more efficient apparatus and processes of manufacture. It results in the discovery of better and more useful materials and ultimately in making happier and more livable the life of all mankind.

Booklet, Y-863, describing the company's plants, will be mailed upon request. Address Desk 57.
Is your farm as well managed as your business? If not, our organization should be able to help you, and we would like to tell you how. A business man who has turned to farming is often disturbed by the difficulty of getting things to run smoothly on the farm. He is used to certain business practices in his office and is frequently discouraged by a seeming inability to get any kind of routine established in his farm work.

Our Board of Directors includes men who have successfully put their farms on a business basis, who have made farming an industry rather than an occupation.

They have organized this company in order that the experience they have accumulated and the benefits they have derived from business methods in farming may be made available to other farm owners.

We have just prepared a booklet telling how the practical experience of this group of business farmers may be brought to bear upon your farm problems, through our department of Farm Management and Accounting.

We will gladly mail a copy of this booklet which contains photographs of a number of the most successful farms and orchards in the country, to anyone interested in the subject.

DIRECTORS

CHARLES F. SEABROOK—President of Seabrook Farms Co.; Member Board of Managers N. J. State College of Agriculture.

H. W. JEFFERS—President, Walker-Gordon Laboratories, Inc.; Acting Chairman N. J. State Board of Agriculture.

A. R. RULE—Vice-President North American Fruit Exchange; Director Deerfield Groves, Inc.; Secretary and Chairman of Board of Directors, Fruit Securities Corporation.

EDGAR L. SMITH—Vice-President National Farm Equipment Co.; President of the Farmers Bureau, Inc.

G. G. BURLINGAME—Farm Owner and Operator; in charge of Farm Management and Accounting Department.


WARD W. PICKARD—Attorney; Director in Fruit Securities Corporation.

ASK FOR BOOKLET