

APRIL 5, 1918.



VOL. XXIII.

No. 27.

# *The* M·A·C RECORD

Chicago and Detroit Alumni Meetings.

New Daylight Saving Scheme Welcome on  
Campus.

Steam Turbine Unit Installed in M. E. Lab.

The World Conflict With Militarism.—Prof. Ryder.

*"M·A·C cannot  
live on Her past—*



*What will you do  
for Her future?"*

*The* MICHIGAN AGRICULTURAL COLLEGE  
ASSOCIATION · *East Lansing, Michigan*  
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# THE M. A. C. RECORD

VOL. XXIII.

EAST LANSING, MICHIGAN, FRIDAY APRIL 5, 1918.

NO. 27

## NEW TIME MAKES HIT.

With their schedules overfilled with classes because of the necessity of crowding a full term's work into the ten weeks fixed for the present spring term, students and faculty are welcoming the new "hour of daylight." Baseball and tennis fans foresee another hour for sport in the evening. The league that meets every night in front of Wells hall for a world's series or two, have contemplated sending a vote of thanks, engraved and etched and gold sealed to the man who put the daylight saving law through congress.

The girls too are rejoicing because they anticipate the adding of another hour to their spring term out of door period after dinner. As yet, however, no action has been taken to make 8:30 the time for returning to the Building, rather than 7:30 the customary time during spring term.

## R. O. T. C. REGIMENTAL OFFICERS NAMED.

Major Wrightson in command of the R. O. T. C. unit has just announced the officers for the cadet regiment. The selection of officers for the regiment has been made through competitive examination. T. W. Keating is appointed colonel; T. C. Dee, former editor of the Holcad, becomes regimental adjutant, and C. J. Overmyer and C. J. Perry have been promoted to majors. All are seniors.

The new insignia for members of the Reserve Officers' Training Corps have just been issued by the military department. The men now wear a bronze "R. O. T. C." on their coat collars and on the left arm is a small emblem, embroidered in white, the letters "U. S." over a bar. Under the bar are the smaller letters "R. O. T. C."

A new U. S. Remington rifle, model 1917, has just been received by the department for the purpose of instruction. It is designed for rough service in short range fighting and is manufactured by the Remington Arms Co.

The annual inspection by officers of the war department was held on April 3, just as the RECORD goes to press. Results of this year's inspection will be covered next week.

## CLASS REUNIONS AT COMMENCEMENT.

Class reunions for the classes of '68, '69, '70, '71, the group '87, '88, '89, '90, group '06, '07, '08, '09, and 1916 will be held this year at commencement time. Just at this moment we cannot make a more definite announcement of the time and the place. It is possible to add, however, that the commencement festivities are to be linked up with the student celebrations and those attending the reunions will have an opportunity to see the college in action and take part in such student demonstrations as cap night and view a parade and review by the cadet regiment of the R. O. T. C. The dedication of the gymnasium will be one of the big features of the commencement program. An announcement will be made in a very early issue and a complete program as well as the reunion plans will be given. It will be safe for members of the "reuning" classes, however, to mark their calendars for the last week in May.

## COLLEGE HALL WORK ACTUALLY BEGUN.

News that will be welcomed by all alumni, particularly those of the older classes, is the announcement that work on the rebuilding and restoration of College Hall has actually been begun. At the last State Board meeting the contract on a 7 per cent basis was let to Chas. Hoertz & Son, builders of the new gymnasium. The contractors are putting the finishing touches on the gymnasium and early this week began transferring timber and materials for their work at College Hall. The piles of lumber about the old building are a welcome sight to those interested in the restoration of the old building.

## ATTENDANCE FALLS NEARLY 250 SINCE FALL TERM.

Final figures on the spring term's registration total 874. This is divided among the different courses as follows: Agricultural, 315; engineering, 193; home economics, 323; veterinary, 43.

The total number enrolled for the spring term's work represents a falling off in attendance of 233 since the fall term. In the fall term 1107 students were registered. In the winter term the regular enrollment was 952, which indicates a reduction in the spring term attendance of 78 from the winter term.

## M. A. C. MEN MAKING GOOD AT CUSTER OFFICERS' SCHOOL.

For the first ten weeks of the course already finished at the Camp Custer Officers' Training School twenty men have been picked from each of the two infantry companies and the one field artillery battery for special merit.

In the first infantry company the name of Joseph W. Cheetham, with '19, appears in the score of those rating the highest in the entire membership of 209 of the company. Of the 158 members of the field artillery battery Richard E. Decker, '15, and Fred English, with '17, are among the highest rated. The training school closes on Friday, April 19, when recommendations will go to Washington for the commissions the candidates are to receive. It is hinted that the younger men receiving commissions may be sent abroad at once in order to spare the experienced leaders for training men in this country.

## NO CONTEST IN EAST LANSING ELECTION.

But one ticket was named during the city caucus a few days ago and in the annual election Prof. E. H. Ryder was elected mayor; B. A. Faunce, clerk to the president, city clerk, and W. I. Gilson, '10, treasurer, with Jacob Schepers, former mayor, for supervisor. All being M. A. C. men, of course, it was impossible to select a better ticket. It accounts for the unanimous opinion of East Lansingites.

As a means of advertising M. A. C. to prospective college students, the Holcad, the student publication, is being sent to every high school library in the state.

'15.  
H. D. Corbus, who was superintendent of schools at Arcadia, is teaching agriculture at Three Oaks, Mich.



# THE M. A. C. RECORD

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

Entered as second-class matter October 30, 1916, at the post office at East Lansing, Michigan, under the Act of March 3, 1879.

C. W. McKIBBIN, '11, Managing Editor.

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FRIDAY APRIL 5, 1918.

## THE ALUMNI MEETINGS.

We cannot help commenting upon the two alumni meetings of the past week at Chicago and Detroit. The gatherings proved that even in war time with the many demands being made upon our time and funds that M. A. C. folks still hold M. A. C. first and get pleasure from the renewing of old college friendships, and inspiration from the rejuvenating of the old-time M. A. C. spirit.

One could not have helped being inspired in listening to the talks of M. A. C. men. One could not fail to be impressed with the importance of the work M. A. C. men are doing, the great part they are taking in industry and the nation's war work. Louis Breggar, '88, concluding his speech in which he told of the farmers' problem and vividly illustrated it with a description of the depleted labor conditions prevailing along the road of his home farm said, "I could retire—I do not say it boastfully—and there are many like me, but I am not going to retire. I am going to stay and work my farm to the last acre until we win the war." Everywhere this was the spirit shown. Interesting side-lights on national war problems were given by Major Chamberlain, '88, J. H. Prost, '04, Athletic Director Brewer and Wm. Lightbody, '89, that made one know that M. A. C. men are holding important positions, are intrusted with heavy responsibilities and are doing great work for the nation. And they are making good.

## OTTO H. VERGERSON, '15.

Otto Henry Vergerson, a graduate of 1915, died at his home in Detroit March 28 after a very brief illness pronounced by physicians to have been a combination of ptomaine poisoning and scarlet fever.

Vergerson has been employed in the state highway department in Lansing and was credited with being one of the best engineers in the department.

He was very highly thought of there by his coworkers. He had only recently been appointed as district engineer of the northeastern division of Michigan with headquarters at Alpena, but had not actually taken up the work in that capacity when death overtook him. Following graduation he spent the first three months at the world's fair at San Francisco in the government military camp and since that time has been employed by the highway department.

Vergerson was twenty-five years of age. He was a member of the Union Literary society.

## CHICAGOANS MEET AT DINNER, MARCH 30.

The twenty-second annual meeting of the Chicago M. A. C. Association was celebrated in a banquet and dance at the Chicago College Club on March 30. What the meeting lacked in numbers it made up in the excellence of its program and the M. A. C. enthusiasm displayed. The attendance, which numbered nearly fifty, was made up largely of members of the older classes there being but few of the more recent classes there. A great many of the younger men of the Chicago Association are in service and a number of them are of the floating type of Chicago residents. The old standbys, however, were there in force and with the usual amount of good old M. A. C. spirit.

The college was represented at the meeting by Director Brewer, Mrs. Landon, and Secretary McKibbin, each of whom responded to Toastmaster Woodworth's call for talks upon the work the college and her men and women are doing. Dr. Ned Mayo, '88, J. H. Prost, '04, Louis Breggar, '88, Wm. R. Rummel, '86, Major Paul M. Chamberlain, '88, Mrs. Loa Renner Croke, with '95, and Harry Rupert, with '00, responded to toasts. Major Chamberlain's entrance during the toast of Mr. Breggar was greeted with much applause. Each talk bespoke the fine spirit of sacrifice and service M. A. C. men and women were displaying in the nation's war work.

The election of officers followed the program and Harry Rupert, '00, was elected president, Mrs. Loa Renner Croke, '95, vice president, and S. W. Doty, '07, secretary.

Among those present were: Josephine Douglass, '06, S. W. Doty, '07, John R. Thompson, '00, Beatrice G. Steward, with '20, Loretta E. Divine, with '20, W. R. Brown, '03, Mr. and Mrs. W. R. Rummel, '86, Louis L. Breggar, '88, J. H. Prost, '04, Mr. and Mrs. D. W. Smith, '02, Mrs. Loa R. Croke, '95, Mr. and Mrs. C. C. Ford, '05, J. M. Stoddard, with '08, Beatrice M. Ridley, R. M. Renner, A. C. Burnham, '93, Mr. and Mrs. Geo. E. Simmons, '94, Mr. and Mrs. J. W. Perry, Dr. N. S. Mayo, '88, H. J. Ruppert, '00, Mr. and Mrs. D. E. Barman, '14 (Mar-

jorie Eckliff, '15), Keith Estelle, with '16, Mr. and Mrs. O. J. Dean, '03.

Friends of M. A. C. attending were Mrs. C. E. Hoyt, wife of a former instructor from 1894-97; Alice R. Brown, a sister of W. R. Brown, '04; Imps Chamberlain, daughter of P. M. Chamberlain, '88; R. Woodworth, son of Lucy Woodworth, '93, and Norman D. Eckliff, a brother of Mrs. D. E. Barman.

## DETROIT ALUMNI HOLD VERY SUCCESSFUL DINNER AND SMOKER.

Nearly 100 M. A. C. men in Detroit attended the dinner and smoker held on April 1 in the dining room of the Detroit Board of Commerce. The gathering represented a wide range in college classes, there being present a liberal sprinkling of all graduates from Henry Haigh, '74, down to the more recent years. The meeting was very peppy and besides renewing old college acquaintances and livening up M. A. C. spirit, splendid entertainment was furnished.

Wm. Lightbody, '89, acted as toastmaster and very cleverly carried off the part in his introduction of the speakers.

Director Brewer was the chief speaker of the evening and gave an unusually strong talk on the work M. A. C. men are doing and the war activities of the college. Director Brewer emphasized the new plan of work of the athletic department in which everyone in college will take some part in athletics.

Henry Haigh, '74, was next called upon and told of his recent visit to a southern cantonment where his son, who enlisted several months ago as a private, has just been given a commission, and will undoubtedly soon be sent to France as a billeting officer.

Alumni Secretary McKibbin told of the active part the college is taking in the war through its representatives in service. He read a letter just received from France from an M. A. C. man, which showed the fine spirit of the M. A. C. fellows wearing the olive drab.

Some of the troubles which Director Brewer got into while in college at the University of Wisconsin were told by his classmate and brother-in-law, A. C. Brownell, until recently editor of the Michigan Dairy Farmer. Mr. Brownell paid a very high tribute to M. A. C.'s agricultural course and predicted that M. A. C.'s agricultural graduates would be a big feature in solving the food problems of the present day and those agricultural problems sure to arise as soon as the war is over. Mr. Brownell said that inasmuch as he believed that many of those present were engineering graduates, he felt that they should know that M. A. C.'s agricultural courses were everywhere considered among the best in the country.

At the conclusion of the talks three reels of moving pictures were shown. They were secured from the Ford company by Gerald Allen, '09. A number of songs were sung during the banquet and M. A. C. yells were given fast and thick. Splendid orchestra music and a colored soloist entertained throughout the evening.

Much of the success of the get-together was due to the efforts of H. B. Gunnison, '00; Chas. Dickinson, '12, and John Kenyon, with '14.

It is regretted that it is not possible to print the names of those attending.

## BREWER WELCOMES NEW TIME.

The new daylight saving plan is being received with much welcome by the athletic department who see in the new time arrangement an opportunity to carry out in full the athletic program laid out for the spring term. The regular varsity contests will, of course, be played in the afternoon, but class, intersociety and faculty schedules of baseball and in fact practically all of the student contests will take place after supper. The athletic department has figured that there will be two full hours of daylight during the best part of the day from now on for real appreciation of athletic contests.

Eight basketball men were recently awarded letters by the Athletic Board of Control. The men receiving them were Capt. Byron Murray, C. H. Brigham, C. C. Higbee, L. D. Kurtz, G. A. Garratt, J. H. Hammes, I. J. Snider, and Larry Archer.

Coach Geo. Gauthier, '14, intimates that, provided too many men do not leave college for Uncle Sam's service, a fast five may be picked to represent M. A. C. next year. Five veterans remain with Higbee, who has just been elected captain of next year's squad.

## STUDENTS' RECITAL.

A students recital will be held Wednesday, April 10, 1918, in the parlors of the Woman's Building, 7:30 p. m. All are cordially invited to attend.

### PROGRAM.

The Violet .....	Mozart
Mabelle Corey	
Good Night (from Day in Venice)	Nerlin
Kathleen Smith	
Rising Sun .....	Torjussen
Curious Story .....	Heller
Ada Woodard	
Serenade .....	Sinding
Bertha Oechale	
Serenata .....	Moszkowski
Ethel Brown	
Vocal Solos—	
Just You .....	Burleigh
Charity .....	MacDermid
Your Eyes .....	Schneider
Nocturne .....	Field
Eva Schurr	
Second Mazurka .....	Godard

The Music Box .....	Friml
Thelma Porter	
Romance .....	Gruenfeld
Mr. Pitt	
Herald of Spring	
Bertine Cole	
Vocal Solos—	
The Last Hour .....	Kramer
June .....	Rummel
I stood Tiptoe on a Little Hill	
Beecher	
Gertrude Babcock	
Preludes Nos. 7, 10 and 3; Nocturne	Chopin
Gladys Gordon	
Danse Macabre .....	Saint Saens
(Arranged for two pianos.)	

Mildred Mead and Alice Rhodes.  
Remember the day and hour, Wednesday, April 10, 7:30 p. m., and bring your friends with you.

## THE WORLD CONFLICT WITH MILITARISM

By PROF. E. H. RYDER.

Editor's Note.—Because of Prof. Ryder's comprehensive knowledge of the war and the causes leading up to it and his wide acquaintance among alumni and former students, it is believed that this article will be of considerable interest to RECORD readers.

The purpose of this series of talks is to present to you the different aspects of the world war into which we, as a nation, have been irresistibly drawn. So many peoples possessing nearly all of the wealth of the world and interlocked with friendships and enmities rooted into the events of the past are involved in this struggle that it is no small task to obtain a satisfactory understanding of the motives and purposes which actuate them. From one angle it has been called a struggle between the democracy of the allies with Russia, an autocratic nation, as a member, and the autocracy of the Teutons. To others it is the efforts of Germany to find an outlet for her people into a larger area for commercial and industrial enterprises. Still others see it as the program of men of overweening ambition for glory who seek to build a nation "with a place in the sun." These differences in point of view remind one of the situation at the time of our civil war when some persons saw in that struggle the great moral issue of human slavery; others thought of it as a struggle over states rights; while for others it was a contest between the old Cavalier and Roundhead elements of our civilization. View the present conflict as we may, a full appreciation of each nation's participation in the struggle must be sought in the years gone by. However, the best we can do in so brief an account of so large a topic is to present a few highly significant facts which may assist one to an un-

derstanding of present day events.

Of the four powers against whom the allies are warring, namely Germany, Austria, Bulgaria and Turkey, who are rendered conspicuous, being autocratically governed by ruling houses of long standing, the Hohenzollerns in Germany and the Hapsburgs in Austria Hungary. Their deeds and views of human society today are perfectly in keeping with the conduct of their governments through five or more centuries of continuous power in their respective lands.

Each family had its origin in the region quite identical with the present Switzerland. The Hohenzollern family acquired as early as 1415 a small area known as Brandenburg, in the heart of the present German territory. In 1609 it acquired another piece of territory on the Rhine, while in 1618 there was added to the family possessions on the east the Polish territory known as East Prussia.

The consolidation of these territories and their internal development became the life work of succeeding rulers. Of special moment were the services of Frederick William, "the great elector," Frederick William I, and Frederick, the Great. The last named monarch perpetrated what has been called the "vast national crime" by partitioning in the last quarter of the eighteenth century the territory of Poland, at which time that people was divided among Prussia, Russia and Austria, where they have remained to this day. President Wilson has given as one of his conditions of peace the restoration of the Poles to their position as an European nation.

The methods employed in the development of these possessions are highly significant in that they included an organization of a powerful standing army, the wonder of Europe in that day. Along with this was established a bureaucratic form of government in which the absolutism of the king knew no bounds. These features were accompanied by an equally remarkable industrial growth.

These characteristics were not unknown in other countries at the time but for reasons not altogether clear the idea of human rights was effectively suppressed in Prussia. Perhaps the fact that Prussia was surrounded by more than three hundred small states, all of which struggled for supremacy or existence, may help account for the character of the Prussian state. Into this contending aggregation of states Napoleon penetrated with his battalions. As the result of this epoch making conflict the German states were reduced to less than forty, but the leadership was in the possession of Prussia's rival, Austria, whose origin was not unlike that of Prussia.

The Hapsburg family moved from Swabia to the possession of the province of Austria in 1273, to which was soon joined the duchies of Styria and Tyrol on the west, the latter being

claimed by Italy today. Thus began the consolidation of a power in central Europe which was to become a buffer state against the Magyar or Hungarian members of the Asiatic yellow race who advanced into the heart of Europe, accepted Christianity and settled down to permanent abode in the tenth century. In the sixteenth century the Hungarians were formally joined with the Austrians. Gathered about this united peoples on all sides, north, east and south, were great hordes of Slavs. Thus was effected a close contact between peoples of different racial instincts from which Europe to this day has been unable to extricate herself and out of which to a considerable degree at least have arisen the issues underlying the present war. Add to the above medley of race distribution the presence in southeastern Europe of another foreigner, the Turk, a fellow member with the Hungarian or yellow branch of the human family who had effected an entrance into Europe by way of Constantinople in 1453. Unlike the related Hungarian, he has not accepted European customs and principles, but retaining the religious beliefs of another continent and the cruel practices of another order, has been a thorn in the flesh to European peoples to the present moment and today is the willing tool of the conscienceless Hun.

The Hapsburg family acquired permanent leadership through the centuries prior to the days of Napoleon by the election of its reigning monarch to the emperors of the Holy Roman Empire, an aggregation of the aforesaid 300 or more states whose territory comprised central Europe. The Napoleonic era, having reduced these states to less than forty in number they were left under the permanent influence of Austria through the triumph of autocratic principles in the Congress of Vienna, a body which met in 1815 to readjust the wreckage of Europe. Thus autocracy continued, lodged in the organization known as the German Confederation, whose head was the keen-minded minister of Austria, Metternich by name. Equally true is the fact that this congress returned the great nations of Europe to their territories with autocracy in the saddle. Thus the nineteenth century, in spite of the struggle for human freedom in France and America, opened with seemingly little sympathy for reform.

Firmly entrenched as autocracy seemed to be there were potent forces at work whose influence had not been measured. These soon asserted themselves with increased vigor and have gathered constantly in momentum throughout the intervening centuries. First of these forces is the desire for nationality which may be defined as that impulse which leads people of the same racial instincts to gather together under a government of their own making. The suppression of nationality finds frequent example in

the Europe of the past century. No better example can be found than that of Belgium, which in 1815 was united with Holland by a decree from Vienna. Within fifteen years, actuated by this wish to be a nation by herself and aroused by the differences in race, language and religion, Belgium broke away from the union. Shortly after this event in 1839 the nations of Europe, Germany, France and England, entered into that much discussed treaty whereby they agreed to respect the territory of Belgium as a neutralized territory. This treaty it is that Germany has pronounced a "scrap of paper." Also the responsibility of the United States toward this treaty has been brought into question. Many believe the United States to have been under obligation to at least have protested the act of Germany, because in the international Hague conference to which the United States was a party, it was agreed that neutralized territory should be respected. President Wilson, however, refused to assert officially the sentiments of this nation on the ground that it would be undue interference by the United States with European affairs and contrary to the spirit of American neutrality as attested by the proclamation of President Washington.

A second force expressed itself frequently during the first half of the nineteenth century in the form of revolutions which broke out in the various European nations in a demand on the part of the people for a real share in the government under which they were living. Herein was manifest the products of the French revolution, freedom, equality and fraternity. These revolutions were temporarily suppressed. One noticeable fact was that they brought to the United States many refugees from the oppression of the Old World. The efforts to permanently crush out this spirit of liberty were unavailing, as the events of the century manifestly show.

The Bolshevik movement of today is the most recent expression of the third great force of the century. This is a struggle between the employer and the employee, growing out of the recent industrial revolution in Russia. This struggle between labor and capital has been a rapidly growing and unsettling force in the past fifty years in all parts of the world. Its expression in Russia today seems different from that in other countries, but fundamentally it has its origin in the same sources as Socialistic demands elsewhere.

In the face of the on-coming irresistible forces the imperialistic principles of the past century found it increasingly difficult to hold their place of domination. However, in spite of the liberal demands by the people there was brought about by exceedingly undemocratic means the consolidation of the German states into a single unified state in place of the thirty-eight states of the confederation. Along with this accomplish-

ment came the formation of the united Italy, supplanting a group of un united states. Thus came about two most remarkable transformations effected in the course of a decade by two brilliant statesmen, Bismarck in Germany and Cavour in Italy. The course of human events in Europe soon began to adjust itself to these new powers.

Bismarck built the new Germany through the means of three self-provoked wars. One with Denmark added the territory of Schleswig and Holstein, thus providing valuable sea-coast. Upon trifling excuse he next fought Austria and with quick achievement of the ready army he dispossessed Austria of her long occupied place of leadership which Prussia made haste to assume. Bismarck wished to unite with the Prussian group of states the four southern German states which had been reluctant to leave the leadership of Vienna. This he did by seeking the third war with no less an opponent than France. With a war of short duration he humiliated the over-confident Napoleon III, brought his career to a close and exacted from France heavy money indemnity and the territory of Alsace Lorraine. As a result the remaining German states took refuge in a united Germany, and Prussia found herself at the very pinnacle of her ambition with herself the chief German state and her king crowned German emperor. The theory of brute strength, "of blood and iron" had triumphed. For the generous French revolution principles was substituted the

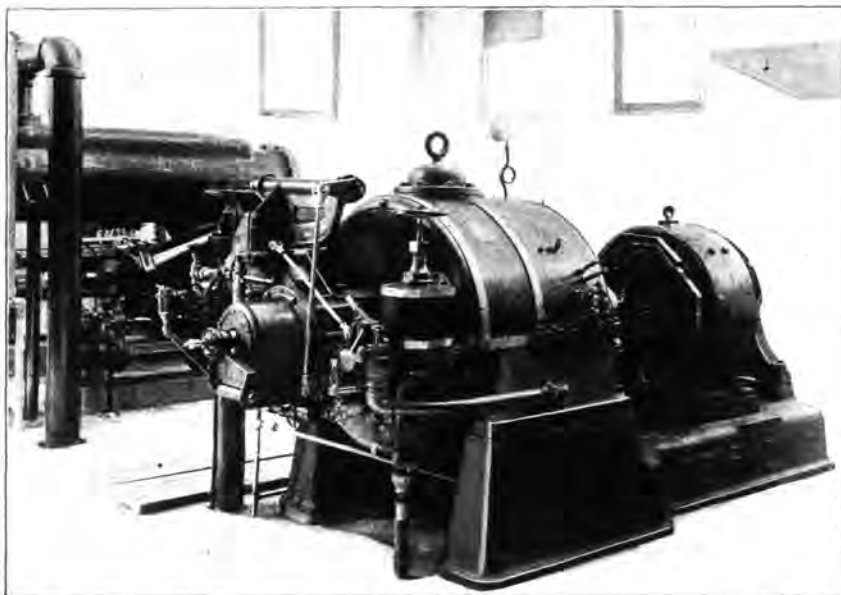
"Good old plan  
That he should take who has the power  
And he should keep who can."

## NEW TURBINE UNIT INSTALLED IN M. E. LABORATORY.

The Mechanical Engineering Department of M. A. C. has recently put into service a new steam turbine. This turbine was built by the Terry Steam Turbine Company of Hartford, Conn. It is rated at 75 K. W. and is direct connected to a 75 K. W. direct current generator built by the Allis-Chalmers Manufacturing Company of Milwaukee. The operating conditions of the turbine will usually be steam at 100 pounds pressure and vacuum of twenty inches.

The turbine is of the return flow type consisting of a velocity stage and three pressure stages. The velocity stage is composed of five stationary nozzles, four of which can be shut off individually, discharging steam into two wheels between which is located a stationary reversing set of blades. After leaving the second of these wheels the steam is carried to the opposite end of the turbine and flows back towards the center through three sets of stationary diaphragms and three wheels. In these diaphragms are located the required





New 75 K. W. Terry Steam Turbine Unit put into service in the Engineering Laboratory.

number of nozzles for the proper drop in pressure and increase in velocity for each of the wheels.

The speed of the turbine is normally 2,400 RPM. and is controlled by the manufacturer's Standard Governor. It is required to keep the speed within 2 per cent of normal speed when the load varies from no load to full load. The turbine is also equipped with an auxiliary over-speed governor that is usually set at 5 per cent above normal speed.

In case the turbine should tend to run away when the load is suddenly thrown off, the over-speed governor will come into action which causes a trip to disengage. That will release the valve that in turn breaks the vacuum and also trips a butterfly valve, shutting off the steam and thereby stopping the turbine.

Referring to the illustration, the governor is shown in the foreground at the left. The main turbine shell is easily distinguished by its shape and towards the right is seen the generator. Professor Polson feels that this unit is one of the best examples of modern steam turbines that could be secured in similar sizes. The staging is similar to that used in several well known types of larger turbines.

It is possible to run a great variety of tests and secure a great deal of valuable information from this unit. For example, the various high pressure nozzles can be shut off one at a time and fractional loads carried under each combination, varied from zero to full load for the combination used.

The output of the generator is absorbed by a rheostat that is designed to take care of the full output of the machine. It has proved very satis-

factory as it is possible to keep the output at any point desired.

Another test that might be run on this turbine would be to determine the effect on economy when various back pressures are used. Likewise a study could be made of the benefit of superheated steam. The department hopes to be able to secure a super-heater very shortly.

A very interesting thesis is being conducted on this machine by three members of the senior class. They are attempting to determine the economy of the turbine for various loads, the drop in pressure through the various stages, and the reheat factor at different points in the flow of steam.

Referring again to the illustration it will be noted that a number of short pipes are projecting from the turbine shell. This shows only a portion of them. The turbine shell has a number of pipes leading into the passages between stages so that it is possible to determine the temperature, the pressure, and the quality of steam at nine points between the supply and the exhaust.

Additional information can be gotten by laying out velocity diagrams for various combinations of nozzles and loads. Sufficient data has been accumulated so that it will be possible to lay out these diagrams according to the angles and velocities of both stationary and moving blades.

Taking it all in all the unit is one of the most satisfactory that the department has in its Power Laboratory. This unit is used for regular laboratory work as well as for thesis work. Students who now take the regular Mechanical Engineering laboratory courses are in a position to get some very interesting comparisons between different types of prime-movers. For

example, comparisons can be made between the cost and economy of the simple slide valve high speed engine, and the long range cut off type of Corliss Engine; the steam turbine and the gas engine. Knowing the cost and the economy of machinery makes it a very interesting problem.

## WEDDINGS.

### KIMMEL-CASWELL.

The marriage of Lieut. W. D. Kimmel, '17, second lieutenant in the Coast Artillery Corps, at Ft. Monroe, Va., and Orenna Caswell, '19, took place Sunday, March 31, at the home of the bride's parents in East Lansing. The ceremony was performed by Rev. N. A. McCune, '01. Mrs. Kimmel will finish her course at M. A. C. Lieut. Kimmel is an instructor in the C. A. C. camp at Fort Monroe.

## ADDITIONS AND CORRECTIONS IN THE SERVICE ROSTER.

1st Lieut. Fred A. Stone, '12, Co. B, 5th Bn., 20th Eng., A. E. F. France.  
1st Lieut. Chas. L. Merwin, '14, F. A. O. R. C., U. S. P. O. 718, A. E. F. France.  
1st Lieut. Chas. L. Moon, with '17, 45th Inf., Camp Taylor, Ky.  
Lieut. Guy W. Bolte, with '08, F. A. U. S. P. O. 718, A. E. F. France.  
J. S. Sibley, '13, 4th Prov. Sqdn., 2d Prov. Regt., S. C. Cantonment, Vancouver, Wash.  
Sergt. C. W. Benoy, '13, San. Squad No. 1, Med. Deut., Camp Custer.  
Capt. Wallace H. Gillet, '16, Troop H, 8th Cav., Sierra Blanca, Tex.  
Harold H. Bauer, with '20, Army Med. School, Washington, D. C. (Res. 419 2d St., N. W.)  
Corp. R. A. Pennington, '17, Meteorological Div., Depot Co. 4, S. C., Camp Wood, N. Y.  
Major Wm. P. Wilson, '06, 1st Separate Brigade C. A. C., A. E. F. France.  
Ralph C. Sweeney, with '18, 16th Ord. Depot Co., Raritan River Ord. Tr. Camp, Metuchen, N. J.  
Wm. Baumgras, '09, 33d Eng., Columbus, Ohio.  
D. W. McKim, with '12, Co. E, 310th Am. Tr., Camp Custer.

## PROMOTIONS.

Major John A. Brooks, Jr., with '13, Ord. Dept., Sandy Hook Proving Ground, Ft. Hancock, N. J.  
Sergt. Major Robt. E. Post, with '19, 324th Aero. Sqdn., Kelly Field No. 1, Ft. Sam Houston, Tex.  
1st Lieut. Evan H. Benoy, with '14, 54th C. A. C., A. E. F. France.  
Corporal Ralph A. Patch, with '20, Bat. C, 328th F. A., Camp Custer.

### '16.

Herdis L. Lewis is field assistant in cereal investigations for the college and may be addressed at East Lansing.

## WITH THE COLORS

### SAMMY'S PRAYER.

Now I lay me down to sleep;  
I pray Thee, Lord, that Thou wilt  
keep  
My footsteps steadfast in the way  
Thou spread'st before with each new  
day.  
As Thou suppliest all my needs,  
Be Thou the measure of my deeds—  
And if my work be incomplete  
When the Great Bugle blows Retreat  
For me, may I lie down to rest  
And feel that I have done my best,  
And sleep to rise and work again—  
Grant Thou my prayer, O Lord.  
Amen.

R. S. CLARK, '18.



Lieut. Clarence H. Hiller, '18, Somewhere in France.

Extracts from a letter written to Y. M. C. A. Secretary Don Heffley from 2d Lieut. C. H. Hiller, now in France:

I forget just how long ago I wrote to you. You see I write so many letters that it is almost impossible to remember when I wrote to anyone. However, I'm sure you won't object to a letter if I'm careful not to write too much.

At present I am Town Major of two little French towns in the zone of the advance. I have charge of all troops billeted here and look after the

general welfare of the men and civilians.

I have some great times with the few civilians that are still living here. Taking everything into consideration, however, I get along fine with them.

I enjoy my work very much. I don't have the hardships to undergo that the men in the trenches have to undergo and sometimes my conscience bothers me on that account. I have had just a day or two up there and I know what it is. Some day, of course, I'll get my share of the front line. Until then my conscience will not be clear. However, someone has to stay back here. The towns must be taken care of and I feel that I am doing something at least when I do my best to make life happy for the boys when they come out of the trenches. There was a relief a few nights ago. The outcoming battalion reached here at night. Of course, they were all tired out. I had to stay up till they arrived to assign them to their respective billets and I remained up all night to see that every man was comfortably billeted. Felt better about that than anything I have done in this town since being located here.

I cannot tell you much about the things that are happening up front. The boys are great. Neither the French nor British who have been here and seen them at their various duties have anything but praise for them. You never hear them grumbling about their work.

Well, Don, it's a great life, and we all think so too. Will be glad when it's all over, but you never hear anyone around here wishing for the end to come until the Germans are given a decisive defeat on the field of battle.

I hope your work at M. A. C. is progressing. Have often thought of you back there and wondered how everything was coming. Have received several M. A. C. Records so that I have been able to keep in touch with the various events in college life. Must stop now and get busy on some records which I have to make and keep.

From R. F. Giffels, '15, 5th Cadet Squadron, Camp Dick, Dallas, Texas:

\* \* \* I must ask you to change the address of my RECORD again. I am stationed at this camp waiting assignment to a flying school. Camp Dick is a new camp, established to act as a distributing center for the various flying schools in this part of the country.

I graduated from the Cornell ground school Feb. 2d, and arrived at this camp Feb. 9th. Had expected to move again very soon, but owing to the fact that my squadron is quarantined for

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measles we shall stay here a little longer. At present we have only one case of the disease, but that is enough to confine fifty of us to quarters. This means that we cannot take advantage of the splendid hospitality which the people of Dallas offer the men in uniform. It also postpones the time when we shall start flying. You can imagine what a disgruntled bunch we are.

I was very sorry indeed to learn of the death of Sergeant Cross. Every M. A. C. man considered "Paddy" a personal friend, and will mourn him as such. \* \* \*

## Alumni Notes

**'77.** Robert Worden (with) is one of the proprietors of the Greenoch Farm, Rushton, Mich.

In the Purdue Agriculturalist for February is a very interesting article by Prof. W. C. Latta, farmers' institute specialist, entitled "The Farmers' Institute as a Factor in Rural Education." Several pages of the Agriculturalist under the department of Agricultural Education are devoted to Professor Latta's article.

**'89.** Frank M. Paine of Traverse City writes: "Same old job for twenty-four years. Proprietor Paine's greenhouse, President Grand Traverse Co. Sunday School Assn., Superintendent 1st Congregational Sunday School, Traverse City. Too old to enlist but deeply interested in self-sacrificing spirit and loyalty of all M. A. C. men in service."

**'97.** H. E. VanNorman of Davis, Calif., recently served as executive secretary of the federal milk commission of San Francisco. The commission is now planning a reorganization of the system of distributing milk in San Francisco with the idea of considerably lowering the cost of distribution.

**'03.** Carmelita A. Hill (with) is teaching in the County Training School in Dunn county at Menominee, Wis. She is "studying with interest the experiments Wisconsin is making in rural school work."

**'05.** Clara Mosley (with) has removed from 258 Connecticut Ave., Highland Park, to 565 Cass Ave., Hazard Apts., Detroit, Mich.

**'07.** Walter Worden, one of the proprietors of the Greenoch Farm, Rushton, Mich., has been township treasurer for the past year and "while making a settlement with the county treasurer ran across Fred S. Dunks, '05. Dunks recently began his work as county agent in Livingston county."

**'09.** Capt. Frank K. Webb has recently been transferred to the 24th Engineers and has left Camp Dix, N. J., for France.

**'10.** A. H. Perrine is a farmer and "Holstein breeder" at Rives Junction.

A baby girl arrived at the home of Mr. and Mrs. Hugh Lynch, 531 Michigan St., Grand Rapids, in February.

Geo. H. Freear (with) is a member of the Van Fleet-Freear Co., sales agents for building and engineering equipment and materials, located at 120 Jessie St., San Francisco. Freear writes: "Nellie's" (Nelson, '09) article in the last RECORD was of considerable interest to me as in addition to the materials mentioned on the letterhead we are agents for the Northwest Engineering Corporation of Portland, Oregon, designers and builders of shipyard cranes. Their specialty is a revolving gantry crane that has proved very satisfactory for actual ship construction and as yard cranes. Of course, their production cannot come up to Nellie's record, but still they do their bit to help win the war."

**'11.** Emerson Armstrong has just received an appointment as instructor in the department of engineering of the U. S. Army School of Military Aeronautics at Ohio State University, Columbus. With Mrs. Armstrong he went to Columbus April 1.

Mrs. Mary Pennington Otte writes that her chief occupation is convincing her husband that M. A. C. will be a better place than Michigan to send Jack "who isn't old enough now to even attend kindergarten." Mrs. Otte is living at 1221 Thomas St., Grand Rapids.

Devillo D. Wood is assistant conservator of forests for the British North Borneo Co., who own and control the northern half of the island of Borneo. His headquarters are at Sandakan, British North Borneo. "Woodie" has just become a member of the British North Borneo Volunteer Rifles, an insular organization for home protection.

H. Basil Wales is a forest examiner with the duties of deputy supervisor on the Coronado National Forest with headquarters at Tucson, Ariz. Within the past year a number of additions have been made to the forest so that at present there are nine divisions in all located in southern Arizona and eastern New Mexico. He writes that his home at 929 East 6th St., is within two blocks of the University of Arizona. He has recently received a substantial increase in salary.

**'12.** R. E. Duddles is superintendent of schools at Okabena, Minn.

Walter C. Corey is a sergeant in the 841st Aero Repair Sqdn., Field No. 2, Garden City, L. I.

C. B. Baker is forest examiner on the Blackfeet Forest with headquarters at Kalispell, Mont.

C. Ross Garvey is deputy supervisor of forests on the Menominee Indian Reservation and may be addressed care U. S. Indian Service, Neopit, Wis.

Mr. and Mrs. I. J. Woodin who have been at San Benito, Texas, for the winter have returned to Michigan and are visiting at the home of Mrs. Woodin at Mason. They may be addressed there care F. E. Liverance.

**'13.** L. P. Kelley is on the staff of the state highway department and is located in Lansing.

Geo. E. Smith, who has been teaching agriculture and doing extension work at Holly, N. Y., begins April 1 as a co-operative extension worker in agriculture "for Uncle Sam and the State."

L. M. Kanters is "holding down the job of assistant engineer of the Waukesha Motor Co., Waukesha, Wis. "Our specialty is truck and tractor motors. At present we are building some military truck motors for the government. We built the first one in eleven days and seven hours from the time we received the drawings. Some fast work."

**'14.** R. W. Goss is associate plant pathologist at the state experiment station, Newark, Del.

E. C. Pinney is in the extension department of the Kentucky Products Co., Louisville. Pinney was a campus visitor April 1.

Bessie Rogers has recently been appointed home demonstration agent for Wayne county and may be addressed care County Agent's Office, Dearborn, Mich.

**'15.** Albert Ringold may be addressed at 6140 Greenwood, Chicago, Ill.

W. W. Blue may be addressed at 936 West End Ave., New York City.

F. H. Prescott is with the Westinghouse Electric & Manufacturing Co., E. Pittsburg, Pa.

E. E. Kinney, manager of the Lansing Batteries Shop, may be addressed at 233 Marshall St., Lansing.

J. E. Palmer, recently of Lindsey, Cal., has entered the aviation school



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L. E. Gay directs a change of address from 343 Webb Ave. to 496 Taylor Ave., Detroit. Gay is employed with the Cadillac Motor Co.

Mr. and Mrs. S. C. Vandenburg (Edna Tussing, '17) who have recently taken up their residence in Chicago may be addressed at Room 905, 139 N. Clark St., Box 2. Vandenburg is employed with Burr Pratt, '09, in the Bureau of Markets.

Karl H. Miller, who has been director of agriculture in the Anoka State High School, Minn., has recently gone to Chicago where he is employed in the seed laboratory of the Albert Dickinson Seed Co. He may be addressed care Y. M. C. A., 3210 Arthington St., Chicago.

#### '16.

G. A. Barlow is with the Detroit Edison Co. at their River Rouge plant.

F. H. Pressler has moved from Walled Lake, Mich., to 313 Maple St., Detroit.

Helen C. Pratt (with) who has been teaching domestic science at Okabena, Minn., has recently resigned to accept a position with the extension department in the upper peninsula as home demonstration agent of Chippewa county and may be addressed Court House, Sault Ste. Marie.

Earl J. Menery, who has been assistant superintendent of the Lansing Fuel & Gas Co., has just accepted the superintendency of the Freeport Gas Co., of Freeport, Ill. The employees of the Lansing company presented Menery with a leather portfolio and a set of mechanical drawing instruments upon his departure.

Dr. W. B. Massie is now permanently located at Boston, Ind., where he is practicing veterinary medicine.

Lawrence D. Fisher is acting as assistant to the division engineer of the Iron Range district of the Duluth, Missabe & Northern Ry. and may be addressed at 1723 E. 5th St., Duluth. He writes that "Milroy has charge of the engineering in several mines in this territory and since the track work at the various mining pits is handled by my department, we see each other from time to time."

#### '17.

Dimitar Atanasoff is a fellow in plant pathology in the University of Wisconsin.

Roy Shane is assistant county agent for St. Clair county with headquarters at the federal building, Port Huron, Mich.

C. A. Hoag is with Diack & Smith, chemical engineers, 49 W. Larned St., Detroit. Mr. and Mrs. Hoag (Ruth Wood, '12) are living at 276 W. Ferry street.

Wm. H. Rowan is now with the 113th Service Sqdn., Ellington Field, Houston, Texas. He is attending the radio school there preparatory for overseas service.

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AND

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