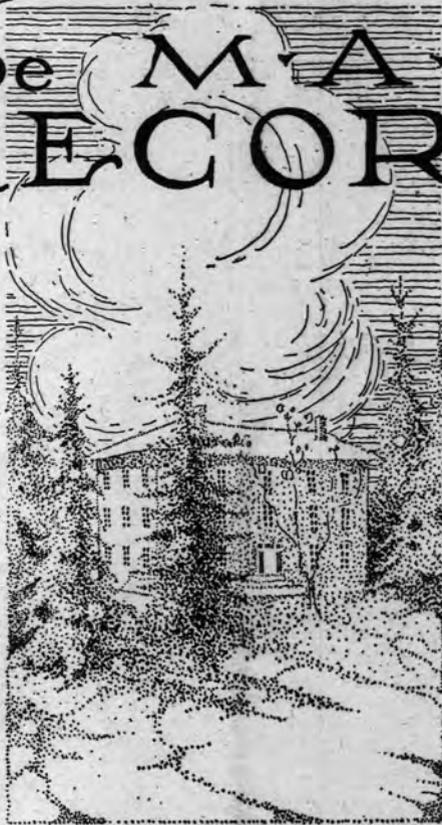


The M.A.C. RECORD



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East Lansing

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The Michigan Game

Saturday, October 16

Ferry Field, Ann Arbor

Ten thousand seats reserved for Aggies in the middle of the South Stand at \$1.50 each. Two trains from Lansing, with the Band.

Make Reservations of C. L. Brewer, Now

ALSO ANNOUNCING THE

Home Coming Game

November 6---College Field

M. A. C. vs. Toledo Univ.

Chalk up that day for your annual fall visit---it will be worth while. **MORE DOPE LATER**

The Record is Owned by Its Readers. That's Why They Patronize Its Advertisers

THE M. A. C. RECORD

THE EAST LANSING WEATHER BUREAU station, of which Dewey A. Seeley '08 has charge, has the best record for upper air readings of any of the dozen or so stations in the United States taking these readings. The longest pilot balloon flight was two hours and nine minutes on July 2, 1919. The balloon was fifteen miles up when lost from view. The highest velocity recorded was 184 miles per hour. This velocity was found at an elevation of 4.5 miles on December 17, 1919.

THE FIRST ISSUE OF THE HOLIDAY for the college year made its appearance on the campus on Tuesday morning and was full of interesting information for new students and old. The new plan of issuing twice a week will help the student body to keep in touch with college activities much more closely than under the old Once-A-Week plan. A change has been made in printers from the International Publishing Company of Lansing to the Campus Press of East Lansing.

"SEND THE BAND TO WISCONSIN," is the slogan on the campus today. This has been designated as tag day to raise a fund sufficient to send the Aggie music makers and spirit inflators to Wisconsin when the team goes on October 9. Lansing business men have guaranteed to duplicate the amount raised on the campus.

FRESHMEN are being lodged in Wells Hall for the first time in the history of the college. This is brought about because of the comparatively small number of upper classmen, and the large number from all classes living in society houses off the campus, and will present a new phase of the Fresh-Soph question which we have always with us.

THE LIBERAL ARTS COUNCIL has completed its program for the fall term and in part for the rest of the year. Hortense Neilson, recitor and impersonator, will appear in Ibsen's masterpiece, "Ghosts" on October 11. Others already announced are Edward and Helen Atchison, who will give a joint concert; R. A. Talcott, humorist and lecturer, and Ellie Kinney Werner, reader and dramatic recitor. The Council feels that it has arranged the best and most varied program which they have ever had.

OLIVET COLLEGE has again opened its doors after being closed for two years because of the war and after-the-war influences. President Voelker is the new head.

CO-EDS HAVE TWO NEW SPORTS added to their athletic program this year, field hockey and soccer. Both of these are popular sports in the eastern schools for girls. The hockey socks are to be knit in the class colors. Swimming and regular gym work will also be included in the girls' athletic program, but

the department plans as far as possible to give the girls open air work until the very cold weather sets in.

THE FIRST BIG ALL COLLEGE GET-TO-GETHER was staged on Wednesday night, when the members of all classes, both men and women, met in the gymnasium for a real pep-fest. Football yells were practiced, speeches made, and refreshments were served, and the freshmen got their first taste of real M. A. C. spirit. The band helped liven the occasion.

FOOTBALL PRACTICE will be open to all students on Wednesday afternoon of each week, and at all other times the gates will be locked for secret practice. Yell masters, the band and regular football spirit among the fans will help make these open sessions full of inspiration for the team.

THE LITTLE BROWN LID appears again on the campus in increasing numbers, and almost every other man we meet is wearing one. The total enrollment Thursday noon was 1350, with 502 of this number freshmen. The ag and engineer enrollment are almost equal, with the ags a little in the lead. They have 489 against 479 in the engineering department. The total number of girls enrolled is 362, with 133 freshmen and only 40 seniors. This is the largest class of freshmen girls ever enrolled excepting last year's class and the smallest class of senior girls since 1917. With the enrollment slow in coming in as it always is in the fall term, the figures should total around 1500 before the end of the week, coming in as it always is in the fall term, the figures should total around 1500 before the end of the week.

THE AVERAGE STANDINGS of the literary societies worked up from the individual standings of their members for the past year have been prepared in the Registrars office and are as follows:

Hermian	2.573	Ero Alphan	2.208
Letonian	2.499	Union Literary..	2.181
Dorian	2.482	Aurorian	2.179
Trimoira	2.438	Sesame	2.176
Eunomian	2.434	Columbian	2.101
Sororian	2.375	Phi Delta	2.087
Feronian	2.359	Olympic	2.047
Forensic	2.347	Orphic	2.039
Themian	2.281	Hesperian	1.951
Phylean	2.235	Eclectic	1.948
Delphic	2.232	Ae-Theon	1.811

Grades of A were given four points for each credit, B grades three points for each credit, C two points, D one, X negative one, and F a negative two points.

The four leading societies in this year's compilation are the same as the four leaders of last year except a slight change in the order.

M. A. C. RECORD
Established 1896

Society Scholarship. The standings in scholarship of the college literary societies are being printed this week and will be greeted with interest we feel certain.

As explained in the table four points are allotted for each A standing received by each society member three for each B and so on to a negative two for each failure. These were then totaled for each society and averaged. If our understanding of the method is correct the highest one on the list shows an average scholarship marking of about C or on a 100% marking basis of about 80 when failure is fixed at 70. This for the highest in the list. The lowest .81 above condition.

There has been much discussion of late on the national fraternity question. Almost every one who has expressed himself on the question has said forcibly that if M. A. C. has national fraternities it must have only the very best. Now with the figures before us there is fair cause for contemplation of whether our literary societies can meet the scholarship requirements of the best national fraternities. Frankly, we do not know.

But whether they can or not, this is a question that every literary society alumnus should be asking himself of his society. We believe that therein lies an opportunity for the older brothers to step in and lend a helping, possibly even a guiding hand, in improving an existing condition and furthering the cause they have been promoting.

* * *

Dean Edmonds Resignation. With the resignation of Mary E. Edmonds, Dean of Home Economics, the college loses a woman whose influence during her five years' connection with the college has been far-reaching. She came here in the fall of 1915 as head of the Household Science department, and immediately began to build up a high standard for that department. A woman of exceptional intellect, charming personality, and strength of character, she inspired those about her to the best possible accomplishments. When it became necessary to choose a new Dean of Home Economics in the fall of 1918, she was the unanimous choice.

During her five years' connection with the college, the several hundred young women who passed out to their life's work found in her a friend, an adviser, and an inspiration always; the community was enriched by her presence; and the work of Home Economics was elevated and broadened. Perhaps no better tribute could be paid her than that paid by the 1921 class, when they dedicated their Wolverine to her, with these simple words, "To Mary Elizabeth Edmonds, Dean of Home

Economics, who has devoted her indispensable services to the betterment of this institution, in the promotion of the interests of the women of M. A. C."

Miss Edmond's service to M. A. C. deserves the grateful recognition of alumni. The Record has just learned of her recent marriage and with her host of other campus friends, we join, in wishing her every happiness.

* * *

A Change in Printers.

The last issue of the Record may have looked different to some of our more observing readers and we hasten to explain. We are now being printed in East Lansing.

For twenty-four years the Lawrence and Van Buren Co. of Lansing have printed the Record and have followed our ups and our downs like a brother. They have helped train the dozen or more editors that have guided the destinies of the Record during that time, have been always ready to offer helpful suggestions and advice, and have worked with a happy willingness to bring us over a "tight place" or escape a late issue. During these years Mr. Lawrence and his staff have developed that keen personal interest in the Record that they might be expected to, were the publication their very own.

For that reason it is with pangs of deepest regret that we move to the East Lansing printery this fall. Our reason however is one of economics. We need scarcely explain the greater convenience and saving of time all round to have the printing done at home.

Our moving is only one more outward manifestation of the growth and progress of the college city, in that it is able to establish and support a printery that now handles three college weekly and twice weekly periodicals besides much more of the regular college printing than has ever been handled here before.

We hope you will like the dress they give us, and appreciate the job more because it is done "at home."

WITH THE ALUMNI CLUBS.

STATE TEACHERS AT GRAND RAPIDS.

Prof. W. H. French is arranging for a banquet for M. A. C. people at the Chamber of Commerce at Grand Rapids on October 29. This will be held in connection with the State Teachers' Meeting in Grand Rapids on October 28 and 29. All M. A. C. people in Grand Rapids will be invited to the meeting.

TUSCOLA AGGIES GATHER

Fifty-two M. A. C. former students, prospective students, and friends of Tuscola County met at Caro for a banquet and good time on Friday evening, September 24, in honor of the new students entering M. A. C.



Dr. Clyde Reynolds Director of the new College Health Service.

this fall and with a view of interesting other young people in a course here.

To quote Alex MacVittie '11, "Everybody had a rip-roaring good time and action was taken to organize a local unit in these parts with the ultimate end in view to work with units in Saginaw and Huron counties. Gunson gave a very fine talk, pulled off with his usual wit and philosophy. We are very much indebted to H. H. Schnur '20, the new Red Cross man for his assistance. The list includes visitors as well as M. A. C. students. There were quite a few bachelors we had to furnish girls for, but I believe they were satisfied with the arrangements as well as were the girls. Later on you may hear from this neck of the woods in a real definite way."

The list of M. A. C. people present follows:

Roscoe Black, Caro; Fred Black, Caro; Ray Streeter, special, Caro; A. MacVittie and wife, '11, Caro; W. C. Sanson '87, wife, daughter, and friend, Caro; H. H. Schnur '18 and '20, Caro; C. A. Taggett and wife, special, Caro; Dr. S. B. Young '96, Cass City; Helen Bardwell, '21, Cass City; Harry Pinney, w'94, Cass City; Dr. C. W. Clark, '81, and wife, Caro; Ronald Wilson, special, Caro; Mr. and Mrs. C. L. Coffeen, '12, Mayville; Frank Bird '04 and wife, Millington; Louis Sees, '96, son and daughter, Unionville; J. S. Wells '13, Vassar; Miss Thurston, Vassar; John D. Martin, Sandusky; Dwight C. Cavanaugh, '20, Sandusky; Mrs. Sadie Bates Brooks, Caro; Mr. Brooks, '32, Caro; Edward Malesky, '20, Lapeer; Mr. Crosby (en-

tering this year) Millington; Miss Evans (Ypsi) Millington; E. H. Kolb '11, Calcutta, India; Miss McKenzie, (entering this year) Cass City; H. P. Reavey, special, Caro; Mildred Culbert, visitor, Caro; Doris Reavey (prospect for '21) Caro; Mr. A. C. McKinnon, w'95 and wife, Bay City; Mattie Graham, visitor, Caro; Edyth Burl, visitor, Caro; Pauline Westcott, visitor, Caro; Willoine Walton, visitor, Caro; Thomas Gunson, E. Lansing; Mrs. Thomas Gunson, '12, E. Lansing; Mr. Trimple, '18 Penn State, Cass City; Mr. Arnot Jones, visitor, Caro, Mr. W. A. Wright, w'18, Gagetown.

STUDENT HEALTH SERVICE ESTABLISHED

One of the foremost steps ever taken by the college in the past few years looking toward the physical well being of her students is the establishment this fall of a complete health service in connection with the athletic department. This is the final step in the organizing of a complete and well rounded out athletic and physical training program and means that M. A. C. will now be able to look after the health of her men and women students as well as to train them in the care and development of their physical powers.

By action of the Board of Agriculture, a fee of \$1.50 per term is to be charged every student, the funds obtained to be used for the maintenance of the new Health Service, under the Athletic department, with a suite of offices and dispensary located at the right hand side of the main entrance in the gymnasium.

Dr. Clyde Reynolds, a graduate of the University of Michigan has been appointed as the Director of Health Service and is now organizing the work. Dr. Reynolds has specialized in health service for schools, and has been assistant to Dr. W. E. Forsythe, director of the University health work at Ann Arbor for the last two years. He received his bachelors degree in 1916 and his M. D. in 1918. He will be assisted by Miss Hand, a nurse of several years' experience, who will act as secretary of the health service.

This is one of the most interesting and valuable steps forward that the college has ever taken, and places us in the front rank with other colleges in the provision made for the physical upkeep of students. Only a few of our western colleges having established this work, among them being Michigan, Illinois, and Wisconsin Universities. We realize our responsibility to turn out the best citizens possible and an efficient health service is one of the most important steps.

Students will be given unlimited health service treatment and admice at the office free of charge. This includes as much as 60 day hospital service when necessary. New students are required to have a complete medical and physical examination, and to attend a series of health lectures. Chief among the

duties which fall under this new department are the medical examination of all students, personal care in cases of sickness, supervision of the sanitary conditions of all college buildings, including dormitories, recitation buildings and eating clubs, instruction in health education, and general prevention.

Women students are to have equal privileges in the health service.

A schedule of office call hours for consultation for both men and women are being established, during which dispensary service and advice are given without charge. Room calls however will be charged for on the basis of \$3.00 for day calls and \$5.00 for night calls.

ATHLETICS

The Aggie Schedule.

- Oct. 2—Albion College, Home.
- Oct. 6—Alma College, Home.
- Oct. 9—University of Wisconsin, at Madison.
- Oct. 16—University of Michigan, at Ann Arbor.
- Oct. 23—Marietta College, Home.
- Oct. 30—Olivet College, Home.
- Nov. 6—Toledo University—"Home" Coming Day."
- Nov. 20—University of Nebraska, at Lincoln.
- Nov. 25—Notre Dame University, Home.

Early Season Game Fatal For Aggies.

Opening up with a bewildering set of trick formations which carried their opponents off their feet, Kalamazoo college defeated Michigan Aggies Saturday 21 to 2 in a game marred by frequent holding but nevertheless interesting.

The Aggies opened up at times and showed flashes of real football only to subside. In the first few minutes of play they took the offensive and carried the Kalamazoo warriors back over their own goal line after Thompson lost the ball on a fumble.

Twice the Aggies lost touchdowns by scanty margins, each time losing the ball on fumbles. In one case, an almost certain Aggie score was converted into a touchdown for Kalamazoo, Capt. Brownie Springer losing the ball when tackled on Kalamazoo's 5-yard line, only to see Staake, brilliant half of the Kazoo eleven, pick up the ball and run 90 yards for a touchdown.

The Aggie warriors were held at bay by the Celery City eleven with but few exceptions. It was during the periods of offensive strength that the Aggies were able to puncture the Kalamazoo line at all. Johnson, a product



Capt. "Brownie" Springer the clever little field pilot on whose shoulders rest much Aggie hope for a successful season.

of last season's all fresh team, was the offensive star of the Aggie attack. The husky lad tore through the opposing line on several occasions and once ran 50 yards to Kalamazoo's 20-yard line.

At the start of the fourth quarter Johnson, aided by Brownie Springer, toted the ball to the Kalamazoo 5-yard line where on an off-tackle play he fumbled the ball, being downed by a visiting gridder behind the goal-line.

While the defeat came in the shape of a smashing blow to the hopes of the Aggie adherents, a close analysis of the situation

will show that it was a team of brainy, fleet-footed veterans, well coached, who triumphed over an eleven whose practices had been limited to nine days and who were forced to fall back on straight football if they hoped to gain.

The Aggies missed John Hammes, yet it is doubtful if his presence would have affected the final tally to a great extent. The game cost Clark one of the best prospects developed this season, Parks, the towering lineman who was continually smashing plays in the first quarter and who was partially responsible for the safety scored by the Aggies when he closely followed the ball and downed "Frog" Thompson after the visiting fullback had carried the ball behind his own goal line, was carried off the field suffering a dislocated knee. It is not known how long the injury will keep Parks from participating in the game.

Lineup:

M. A. C.	Kalamazoo College
Bassett	L. T. J. Thompson
Bos	L. T. Michiea
Lefler	L. G. Clay
Morrison	C. Lambke
Swanson	R. G. VanZant
Parks	R. T. Bracket
Schwei	R. E. Learned
Springer	Q. B. Casteel
Johnson	L. H. McKay
Noblet	R. H. Staake
Brady	F. B. F. Thompson

Score by quarters:	1	2	3	4	T.
M. A. C.	2	0	0	0	—2
Kalamazoo	7	0	7	7	—21

Touchdowns: Casteel, Staake (2). Safety: F. Thompson.

Goals from touchrdowns: F. Thompson, 3 in 3.

Substitutions: M. A. C.—Thorpe for Parks, Willman for Bassett, Watson for Bos, Wilcox for Noblet, Martin for Morrison, Morrison for Martin, Bassette for Willman, Bos for Watson, Radewald for Lefler, Eddy for VanZant, Markinson for Bracket, Taylor for Staake.

Time of quarters: 15 minutes.

Referee, Rowe, Michigan; umpire, Packard, Jackson; headlinesman: Olds, Ypsilanti.

Swede Rundquist to Coach Line.

Grid prospects at Michigan Aggie were given a decided boost with the signing of "Swede" Rundquist as line coach. Terms were reached Tuesday afternoon and the new assistant to Clark took charge of the Big Green forward wall immediately.

The signing of Rundquist to assist the Aggie head coach serves to round out an ideal combination. "Swede" and "Potsy" were trained in their playing days in the same fighting tactics, and for this reason they

are well equipped to develop a line and a backfield which will form a mighty strong combination.

During the seasons of '14, '15 and '16 Rundquist was one of the mainstays of the Illinois line. In his last year on the varsity, the big lineman captained the team, and was unanimously named for a place at tackle on the All-Western. That his ability as a coach will conform with his record as a player, seems very likely from the manner in which he took charge of the Aggie linemen on his first appearance on the field.

As a whole, the team appeared after the first of the week to be considerably strengthened. The drill is going ahead at a rapid pace but Clark is leaving no holes in the training squad in order to get a combination in mid-season form for the less important games of the early part of the season.

The training schedule as laid out by the coach calls for a thorough grind in fundamentals and this is not to be overlooked in an effort to pile up big scores against the invaders in the opening games. However, the work has gone forward rapidly enough to make it probable that the combination which takes the field Saturday will be well equipped to play a strong game against the Albion eleven.

WITH THE FACULTY

RETURNING ALUMNI.

Josephine Hart '12 returned to M. A. C. on September 1 as Assistant Critic Teacher in the department of Education. Miss Hart has been connected with the Home Economics department of the Seattle Washington public schools for the past five years.

E. E. Kinney '15, who has been in business for himself in Lansing for several years as proprietor of the Battery Shop, has been added to the Electrical Engineering teaching staff. His practical and commercial training will make him a valuable man in this department.

H. H. Musselman '09 "Happy" returns as head of the department of Farm Mechanics, after a leave of absence since the first of the year as head of the Automotive Department for the U. S. Army at Camp Grant, Ill.

J. E. Robertson '09, who has been connected with the Drawing department of the University of Illinois, for three years, has been added to the staff of the Drawing department. He will give work to engineering students, principally mechanical drawing and descriptive geometry.

Cora L. Feldcamp '05 returned to M. A. C. August 1 as Reference Librarian. After graduation from the college, Miss Feldcamp was library assistant here until 1908, when she resigned to become librarian in the office of Farm Management, U. S. Department of Agriculture, which position she held until August of this year.

Fletcher A. Gould '07 comes back to the college as an instructor in surveying and drainage in the Civil Engineering department. After leaving M. A. C., he took a year of post graduate work at the University of Michigan. After fifteen months private practice at Owosso, he went to the Oregon Agricultural College as assistant professor of civil engineering. He was later connected with the James Milliken University at Decatur, Illinois, was city engineer at Owosso for two years, was connected for a time with the Consolidated Coal Co. at Saginaw and later with the District Engineer's Office of the Highway department at Saginaw.

J. E. Gibbs '20 is returning to be connected with the Civil Engineering department as an instructor of surveying. His work will be principally with the sophomores. He has been employed in the State Highway since graduation in June.

Phillip J. Baker '08, for a number of years Industrial Engineer with the Reo Motor Car Company of Lansing, and just recently connected with the engineering department of the Duplex Motor Co. of Lansing, will fill the vacancy caused by the resignation of Prof. W. T. Hildorf, in the Mechanical Engineering department. His title will be metallurgist in the heat treating division.

CHANGE IN PUBLIC SPEAKING DEPARTMENT.

C. B. Mitchell, the popular debate coach, and Assistant Professor of Public Speaking, resigned September 1 to become head of the Public Speaking department at the University of Oregon at Corvallis. Mr. Mitchell was one of the best liked and most successful instructors ever connected with the English department, and we would regret more the severing of his connections here if we were not rejoicing in his new opportunities as head of a department in a growing and wide-awake college.

Mr. Mitchell is succeeded by Prof. Paul R. Brees, a graduate of the University of Illinois. Mr. Brees was last year head of the department of Public Speaking department in Friends University, a Quaker college in Kansas, where his debate team won the state championship. He has done considerable work in dramatics and in interpretative reading and expression. When in college, Mr. Brees was a member of the championship debating team of Kansas in 1916, and in 1917 he won the state peace contest. In 1918 he was awarded second place in the Northern Oratorical League at Ann Arbor, besides winning first and second places in several other state and national contests.

ADDITIONS TO ENGLISH STAFF.

Denton C. Limbaugh of the Texas, Christian University and also of the University of Chicago, will teach English to the Agricultural and Engineering freshmen. He made

an exceptional record as a student and has had two years' experience in the Kirkley School, a private institution in Greenville.

Guy S. Greene is a graduate of Hobart College, of Geneva, N. Y., with graduate work in Cornell University. He will have work with Agricultural, Engineering and Home Economics freshmen.

THE BACTERIOLOGICAL LABORATORY

BY DR. WARD GILTNER

Alumni should know of the present day work and the new undertakings of the different college departments in order that they may have a more comprehensive knowledge of their Alma Mater and her progress in her varied endeavors. The department of Bacteriology is doing an unusual work particularly in research in agriculture and we are happy to present this brief description of its work and personnel by Dr. Giltner.

There are few institutions of higher learning in this country or in any other country blessed with a laboratory more completely equipped with the material things for bacteriological studies than is the one at M. A. C. The department of bacteriology and hygiene is interested in teaching and research primarily, although a considerable amount of extension work is done throughout the year.

From the standpoint of teaching, the department ranks with the departments of physics, chemistry, mathematics, and modern languages in the number of students enrolled in the courses offered. Work is given to all the women, to all the veterinary and agricultural students, and to the civil and chemical engineering students. Probably more instruction is offered to undergraduate students in bacteriology and hygiene than is given in any institution in the country except perhaps in those few institutions that offer professional courses such as medicine and specialize in bacteriology and hygiene. The effect of a broad and thorough training in bacteriology is reflected in the demand for our graduates to fill positions in teaching, research, public health laboratories, and commercial laboratories.

RESEARCH

The department of bacteriology and hygiene carries on more distinct lines of research than any other department in the Experiment Station. We have in vigorous operation five major projects covering the principal phases of bacteriology related to agriculture. Notable work has been achieved along various lines of dairy bacteriology and in the field of animal diseases. Research in soil bacteriological problems has been very productive in results. Practically everyone connected with the laboratory is engaged in the pursuit of some problem even though the major portion of his time may be devoted to teaching.

Recently under the direction of Mr. Cooledge there has been developed a new method for the determination of the keeping qualities of milk which bids fair to be revolutionary in its influence on milk inspection. The work of Mr. Cooledge and of Mr. Huddleson in the investigation of the effect of infectious abortion of cattle on the milk is recognized throughout this country and abroad as being of the greatest importance both from the human health standpoint and from the standpoint of the control of the disease in cattle.

In addition to her work along the line of controlling the vinegar fermentation and various food fermentations, Mrs. Wyant (Zae Northrup '06) has laid a very firm foundation for a biological understanding of the great peat deposits of Michigan with a view to their agricultural uses.

Mr. Ruehle, for a number of years with the Agricultural Experiment Station at Geneva, New York, has already made a notable contribution to a knowledge of metallic flavor in butter and has devised a method for making a direct microscopic examination of butter.

Dr. Robert Snyder '14 has pushed the work with the nitrogen-fixing bacteria with the greatest vigor. Something like 50,000 of these cultures have been sent out by this laboratory since undertaking this work.

Mr. Fabian and Mr. Mallmann '18 have come to the assistance of the bee keepers through studies on bee diseases and to the assistance of the rural dweller through the examination of rural water supplies for purity. The discussion of anyone of these interesting lines of work would take more space than is allotted us for this entire article.

HYGIENE

So far as hygiene is concerned, we believe that we are about the only institution in this country teaching rural hygiene and sanitation. It is quite probable that we have influenced a great many of our graduates to spread the doctrine of right living in many rural communities.

We have for the past decade urged the establishment of an adequate health service for the students of M. A. C. We are bold enough to predict that the efforts put forth by the authorities to make effective our recommendations will be crowned with unexpected success. There is no reason why from now on M. A. C. should not maintain the best health service of any institution in the country.

This department has always been vitally interested in the promotion of graduate work. We believe and modestly too that the present policy of encouraging graduate assistant-ships originated with us. A review of our experience during the past six years convinces us that it is wise to encourage graduate work.

Not only is the graduate student benefited directly but the institution is greatly benefited through a favorable reaction on undergraduate students and through the inspiration that comes to the teacher and investigator from the association with young men and women pursuing research work.

We have been able to produce through the combined efforts of all those connected with the laboratory a general bacteriology guide which is used quite extensively throughout the country. It is our belief that this guide has increased the efficiency of our teaching by fully 25 per cent. We are fortunate in having the hearty cooperation of John Wiley and Sons in the publication of the Laboratory Guide in Microbiology, a new edition of which is now in process of development.

THE STAFF

Perhaps the greatest element of strength in our staff is the tendency of the members of the staff to remain with us over a considerable period of years. Except as a result of the leave of absence of Dr. Stafseth who is at present working for the Norwegian Government, there are no changes in our regular working staff for the coming year.

Practically everyone connected with our teaching or research work has had experience or collegiate training elsewhere or in addition to that received at M. A. C. It is very gratifying to testify that not the least by far of the achievements of the workers of this laboratory are the fruits of the labor of our own alumni. Mrs. L. Zae Northrop Wyant received her B. S. at M. A. C. in '06 and later received the M. H. E. from her alma mater. She also received an A. M. degree from the University of Michigan. W. L. Mallmann was a graduate of the class of '18. Dr. Robert Snyder graduated with the class of '14 and later received the Ph. D. from Cornell University. I. F. Huddleson received the M. S. degree in '16, and Mr. Robert L. Tweed received the M. S. degree in 1920 at M. A. C. Mr. F. W. Fabian was a student at M. A. C. in the summer of 1916.

FROM DR. BEAL.

The last Record contained a most admirable notice of Dr. Frank A. Wells by O. E. Angstman, '75. The writer in '73 and '75 was professor of horticulture and a member of the orchard committee of the Michigan Pomological Society. We did some pioneer work in a trip to Traverse City, Old Mission, Petoskey, and Harbor Springs, incidentally taking in a visit to Crandall, Morrice, and Wells. They lived right in the open woods among Indians where they went after leaving M. A. C. The Indian horses wearing small bells ran at large. These boys were enthusiastic in their new enterprise.

Years ago D. S. Bullock was a short-course student at M. A. C. and was aroused to the need of more education. He took the full course, graduating in 1902, and soon left for Patagonia and Chili, where he acted as a missionary among the Indians for ten years. Later he was principal of a county agricultural school in Northern Wisconsin, where by his initiative in organizing farmers to improve their dairy cattle; he attracted the attention of the University, where he was soon engaged for extension work. The following letter explains:

"Dear Dr. Beal:-

Your very welcome and complimentary letter was forwarded to me at Goodrich, Mich. where I was staying for a few days with my parents. You, of course, had not heard that I had left Wisconsin. Beginning next Monday I will be in the employ of the Bureau of Markets of the U. S. Dept. of Agriculture. My particular work will be in connection with the sale of pure bred live stock to South America. The plan at present is that I shall be in this country about six months and will then go to Buenos Ayres where I shall look after our interests there.

I have sent your letter to Prof. Humphrey and I am sure you will hear from him in due time.

You probably saw that I got my Master of Science from Wisconsin this spring. I wrote a thesis on a History of Holstein Friesian cattle in Wisconsin and the plan at present is that it will be published as a book by the Wisconsin Holstein-Friesian Association.

I will probably be in Mass. this fall and will call and see you if possible.

As soon as I get located in Argentine will let you know my address. At present it will be Bureau of Markets, Washington, D. C. D. S. Bullock."

DR. DAVENPORT '78 MADE VICE PRES. U. OF ILLINOIS

The following was clipped from the Chicago Tribune of Sept. 29, 1920:

"Trustees of the University of Illinois elected Dr. Eugene Davenport, dean of the department of agriculture, to the vice presidency of the school at a meeting in the Blackstone hotel yesterday afternoon. Dr. Davenport, whose appointment becomes effective immediately, succeeds Dr. David Kinley, elected as university president during the summer.

Dr. Davenport is a graduate of Michigan Agricultural College and became a member of the faculty of that institution in 1889. In 1891 and 1892 he was president of the Collegio Agronomico of San Paulo, Brazil. In 1895 he joined the faculty of the University of Illinois, where he has since been."

MARRIAGES

Miss Mary E. Edmonds, Dean of Home Economics at the college for the past two years and for three years previously head of the Household Science department was married on September 21 to Howard Gerlaugh, of New Carlisle, Ohio, at her home in Olympia, Washington.

Grace Anderson (with '18) and William Brownrigg, University of Michigan '17, both of Manistee, were married at the bride's home on September 15. They will live at Ottawa, Canada, where Mr. Brownrigg has a position as Industrial Engineer.

Corrine Lichtenwalter (with '20) and Hans Bernard Keydel '20 were married on September 20 at the home of the bride's parents in Bucyrus, Ohio. They will make their home in Detroit where "Dutch" is in the manufacturing business with his father.

Mary Ray '18 and Arthur Tobey '21 were married at Mrs. Tobey's home in Manistee on August 30. They will live in East Lansing at the Pennington Apartments on Albert St. until Tobey finishes his college course next June.

Karl H. Miller '15 and Miss Ruth Norton of Muskegon Heights were married on June 23. They are living in Iron Mountain where Karl is County Agent for Dickenson County and "where M. A. C. ites are always welcome."

Howard Robert Estes '17 and Miss Marjorie Potter of Flint were married on September 16. They are living at 512 Wilbur Place, Flint. Estes is connected with the City Board of Health.

Louis H. Grettton '17 and Miss Bernice Bateman were married at their new home in Mason on September 4.

William J. Baumgrass '09 and Miss Delia Ellen Gardner of Lansing were married on September 18 at the bride's home. They will make their home at Babbit, Minnesota, where Baumgrass is a construction engineer with a mining company.

MRS. GLENN ROBINSON of Lansing, formerly Miss Olga Berg, for several years nurse at the college hospital, announces the arrival of a baby girl at the Robinson home on Sept. 26.

LOST—Probably on the athletic field or in the botanical garden on September 25, a small leather pocket-book containink photographs of children and papers of no value to anyone but owner. Finder please notify S. F. Edwards '09, 801 Ionia St., Lansing.

NEUROLOGY

R. Karl Bryant.

R. Karl Bryant '03 of Oak Park Illinois, died at his home on September 6, after several weeks' illness with peritonitis. He graduated from the engineering department at M. A. C. and during his senior year carried off the state featherweight championship. He leaves a wife and daughter, besides his father and mother who live in Lansing, and several brothers and sisters.

CLASS NOTES

'88

Harry Thurstell is now with the Southern Railway. He was formerly with the Interstate Commerce Commission at Washington, D. C., but has recently resigned his work with the government.

Fred Hillman '88 is with the Seed Laboratory of the Department of Agriculture and is considered one of the best authorities anywhere in the United States on seeds. This information was given by L. H. Dewey of the Department of Agriculture who called at the college during the summer.

Hugh P. Baker may be addressed at 18 E. 41st St., New York City, care American Paper and Pulp Association.

'93

F. D. Stevens, 1216 S. 16th St., Birmingham, Ala., is Farm Management Specialist with the U. S. Department of Agriculture in cooperation with the Extension Department of the Alabama Polytechnic Institute.

'05

D. A. Gurney '04 and Mrs. Gurney, on an auto trip last summer thru New York state and New England, met Joe Haftencamp '05, in Rochester. "If appearances are anything to judge by, Joe is doing well," say the Gurneys. "He admitted it too, so we think we can safely say he is another successful M. A. C. man."

'06

Dora Skeels Post lives at 1415 29th St. E., Kansas City, Mo.

'09

A clipping from a Sheridan, Wyoming, paper gives a very interesting account of the finals in a series of tennis matches of the Sheridan County Tennis Club, in which Charles Oviatt came out victorious. "There's life in the old dog yet," says Charles.

The Sales Manager Monthly for July has a two-page illustrated article by William Carl Chapman, formerly advertising manager for the Packard Motors Export Corporation, on "Selling The Foreign Market." "Chappie" is now with the Harea Motors Co., distributors of Mercer, Locomobile and Simplex cars as expert advertising manager.

'10

Louise Kelley Pratt lives at 1116 N. Kenmore Ave., Los Angeles, Calif.

E. G. Hoffman is connected with the Binalbagan Estate, Inc., Binalbagan Occ. Negroes, P. I.

'11

J. F. Campbell (with) is still with the Kerner Incinerator Co. of Milwaukee.

F. G. Wilson has left the Yawkey Bissel Lumber Co. of Rhineland, Wis., and is now with the Roray-Yeamon Co., timber factors of British Columbia. He may be addressed at Room 814 Dominion Building, Vancouver, B. C. "Pud" says he decided he would go where the timber was, and is "now in the region of refreshing 110-inch rainfall."

'12

H. J. Bemis (with) is Superintendent of Service Stations for the Standard Oil Co. in Indiana, with address at 1432 Thane Ave., Chicago.

Jollie H. Tibbs is teaching agriculture in the Selma High School, California. Selma is in the raisin center of the world.

'13

P. I. Allen writes from Rochester, "Just a word to let you know that we are changing our address from 137 Shepard St. to 543 Hazelwood Terrace, Florence (Florence Gamble '14) and I still entertain hopes of getting back to a commencement in the near future."

Hower Ward, Paw Paw, is an engineer with the Van Buren County Road Commission.

'14

From V. A. Freeman, Lachine, we have this, "Manager of Beaver Lake Ranch, engaged principally in sheep raising. As a side line, just threshed 90 bushels of clover seed. Mrs. Freeman and two children enjoy the ranch life as well as myself."

O. C. Cobb is teaching Smith-Hughes agriculture in a Community High School at Anna, Ill.

Frank W. Schmidt is Chief Engineer of the Jaxon Steel Products Co. of Jackson.

Floyd A. Nagler is Assistant Professor of Hydraulics and Mechanics at the University of Iowa, and lives at 14 E. Court St., Iowa City.

John A. Petrie is connected with the Landscape and Nursery Co. of Detroit.

Thomas R. Shaver lives at 312 N. Wenona Ave., Bay City.

Mrs. Raymond C. Johnson (Lenore L. Nixon) has moved from Oakland, Nebraska to Burlington, Colorado. "Still moving westward," she writes, "but I am in hopes that in a year or so we may attend one of the Commencement reunions of which I have been reading in the Record."

Heman H. Allen wrote us earlier in the summer that he had just been operated on for appendicitis, from which he was rapidly recovering.

'15

Karl G. Meschke may be addressed at Box 59, Rome, New York.

Porter R. Taylor has changed his street address in Harrisburg, Pa., to 224 S. 20th St.

H. L. Barnum resigned from County Agent work on September 1 to return to his own farm.

Bill Lavers and Mrs. Lavers (Gertrude Thompson '15) announce the arrival of Alicia Ann, weight 61-2 pounds, on Sunday, September 12.

H. Spurr, 9 John St., Worcester, Mass., sends this, "Working in the engineering department of the Riley Stoker Co. and rooming with H. C. Stewart of the class of '17."

Glenn L. Hobbs, "Happy" sends greetings from Deerfield, Ill.

'16

James Avery has been superintendent of the Wisconsin Home and Farm School at Donsman, Wis., since May, 1919. This is a philanthropic home for homeless boys maintained by private funds.

Bernard Moll, 314 N. Fifth St., Grand Haven, is resident engineer on sewer and water main extension at Lockport, Illinois.

William J. Atchison has bought the Eilenburg house next to the Church property at Baker switch, and is establishing himself in the landscape gardening and nursery business.

Edgar W. Thomas (with) lives at 432 Main St., Aurora, Ill.

O. A. Olson may be addressed care of the Forest Service at Lander, Wyoming.

Kitty Handy is leaving her work in the County Treasurer's office at St. Joseph, and may be addressed at her home in Sodus.

R. G. Bigelow may be addressed at the Swift Hall of Engineering, Northwestern University, Evanston, Ill.

This from A. H. Atzenhoffer, "Still with the American Hard Rubber Co., Akron, Ohio. After waiting one year we are finally settled in our new home at 442 Harman Ave., and the latch string is out to any Aggie passing this way."

Carol M. Davis, who received the degree of M. A. from Columbia University in June, will be head of the Household Arts department in the State Normal school at Fredericksburg, Virginia, the coming year. "I expect to meet some M. A. C. people down there," she writes. "At least I hope to as I never went anywhere that I didn't meet someone from the good old place."

Reeva Hinyan will be located at 1752 Garfield Place, Hollywood, Calif., for the winter.

'17

Dimitar Atanasoff writes, "Address—No Man's Land. Traveling all over Europe. Hope to return to the states this fall or possibly late during the fall of 1921. Until September 7, 1920, working in the Biological Reichsanstalt at Dahlem near Berlin."

Hazen P. English asks to have his address changed from Kansas City, Mo., to 742 Traders Building, Omaha, Nebraska. He is Grain Supervisor for the U. S. Bureau of Markets.

Myron S. Strong (with) Lewes, Delaware, R. R. No. 1, sends this, "Mrs. Strong and I are enjoying the best of health down here on the eastern shore, and we extend an invitation to any M. A. C. people coming this way to drop in and see us."

William L. Hermes (with) of Lansing, was ordained into the priesthood on Sunday, June 27, in Detroit, at Sts. Peter and Paul's Cathedral. He said his first high mass in St. Mary's Church, Lansing, on July 4.

Vernon B. Redfern (with) lives at 511 E. Spruce St., Sault Ste. Marie.

From Roscoe W. Rice, 1104 6th St., Bay City, we have this, "Chemist, Industrial Works. Have been here nearly a year. Am learning something about the chemistry of the foundry business."

Howard G. Smith, 1131 Hessler Road, Cleveland, writes, "Am in the advertising game with the H. K. McCann Co., 625 National City Bank Building. Like it first rate and am making good use of my M. A. C. training in the advertising of tractor, plow, and fertilizer accounts."

C. J. Seidel, 601 N. Linn St., Bay City, is in the creamery business with his brother.

The latter part of August we had this note from G. H. Gillespie, "Leaving August 30 for New York, via Washington, D. C., from where I expect to sail on September 4 for Liverpool. Will be gone about two months visiting relatives in Ireland and Scotland, and touring in England and France."

Glen Stewart is still county club leader of Boys' and Girls' Club Work with the Wayne County Farm Bureau. "Mrs. Stewart (Fanny Rogers '18) he says, "is keeping house and putting into practice M. A. C. recipes."

Edwin H. Pate, 603 Free Press Building, Detroit, is assistant to Russell A. Murdock, consulting engineer, 603 Free Press Building.

Lyle Wilson teaches agriculture in the Adrian High School again this year. He has spent the summer as field assistant in the Barbary eradication campaign.

Manual S. Tarpinian is a technician in Parks Memorial Hospital, New York City, and lives at 510 W. 135th St.

Daniel L. Mead, 741 Cass St. W., Grand Rapids, is construction engineer with Owen, Ames, and Kimball, at Grand Rapids.

William Keck may be addressed at 430 Lincoln Ave., Grand Rapids.

Henry G. Sommer is in the Engineering department of the Lansing Stamping & Tool Co., and lives at 214 N. Fairview, Lansing.

E. A. R. Lauffer has changed his Detroit address to 4741 Garland Avenue.

Clem Fry is starting his second year in the medical school at Northwestern, and lives at 2901 Prairie Ave., Chicago. He will be glad to have any of the old fellows call him when in Chicago. His phone number is Douglas 688.

H. C. Stewart, 9 John St., Worcester, Mass., is working in the Engineering department of the Sanford Riley Stoker Co.

Mary LaSelle is back in Detroit teaching, and is living with Gladys Gruner '18 and Jess Illenden '19 at 18 Lothrop St. "M. A. C. people are welcome at our apartment," they write.

Emma Harms is a chemist at the Detroit Testing Laboratory, and lives at 217 Massachusetts Ave., Highland Park.

'18

Quindara Oliver has entered Columbia University to do graduate work this year.

Holmes Froelich and Mrs. Froelich (Bernita Weese with '19) are living at 1314 Chippewa St., Flint, where they are at home to all M. A. C. folks. "Pull the latch string and walk in," writes Holmes.

Dr. Ross James Hinkle (with) finished his course in veterinary medicine at Ohio State, and is now practicing at Decatur, Illinois in the firm of Brown and Hinkle. He lives at 355 Main St.

Morris Alfred Nelson (with) is a civil engineer with Price & McCormick at Missouri Valley, Iowa. H. G. Denning, lives at 812 Shiawassee St. Lansing.

Muriel E. Dundaş is Director of Home Economics in the Mt. Clemens High School this year, and lives at 1031-2 N. Gratiot Ave.

Stanley W. MacKenzie (with) is connected with the United States Rubber Co. as Office General, Footwear Manager, with address 804 W. 180 St. New York.

Paul G. Andres lives at 218 Harlem St., Oak Park, Ill.

Wilfred B. Williams (with) and Mrs. Williams (Emily Castle '17) announce the arrival of Harriet Ellen, weight 8 pounds and 10 ounces, on July 31. "Bill" has re-entered college this fall to complete his work in the civil engineering course.

N. A. Kessler is living at Mountain, Wis. Mable MacLachlan has charge of the home economics work in the Sault Ste. Marie High School, and is teaching the sewing. Doris Stephenson teaches cooking.

'19

Erma Preston is teaching Household Science under the Smith-Hughes plan in Champaign, Illinois, High School and is living at 303 E. Healey St.

Winnie Haywood will continue to teach Household Art in the Manistee High School next year.

Frederick A. Clinton (with) is still underwriting life insurance for the "Travelers" at their home office, and is living at 248 Sargeant St., Hartford, Conn.

Russel H. Kelty is "spending another year with-in the influence of the campus, handling the 'little stingers in the summer time and teaching bees during the school year." He has been doing some research work on bee diseases recently.

Dr. Earle Gilbert Baxter is practicing veterinary medicine at Union Hill, New York, and living on Ridge Road.

G. T. Bentley, Assistant Works Engineer for the Detroit City Gas Co., lives at 218 Pingree Ave.

Boyd Rainey teaches agriculture again this year in the St. Johns High, and lives at 204 S. Church St.

Edwin R. Benkert is Assistant District Engineer for the State Highway department at Saginaw, and lives at 1219 S. Washington.

Norman H. Tenney is practicing veterinary medicine at White River Junction, Vermont.

Emerson Lindsay, 360 Second Ave., Detroit, is a bacteriologist with Parke, Davis & Co.

Gertrude Newbrough (with) is a chemist in the ice cream laboratory of the Detroit Creamery Co., and lives at 160 Hague Ave.

'20

Maurice Jewett and Mrs. Jewett (Marjorie Smith, with '18) are living at 1532 Detroit St., Flint.

Carl L. Warren '18 and '20, Adams, New York, is truck gardening with his father.

Willis V. Earsman, '18 and '20, is working in the Soils department at the college.

H. V. Hoffman may be addressed at 212 Public Service Building, Milwaukee, Wis.

A college man analyzed his class

to see how many could afford to subscribe to the Alumni Endowment Fund

A GRADUATE of one of the foremost colleges was asked to conduct the alumni endowment campaign among the members of his class. He made an analysis of the ninety-six members, according to his estimate of their financial resources, dividing them into three groups. In the first group he included those to whom a gift of \$300 would be impossible; forty men made up this group. The second group included those to whom \$300 would represent a maximum gift; there were thirty-seven men in this group. The third group included those who could give more than \$300; there were nineteen men in this group.

Why some college men earn so much more than others

The members of that class have been out of college more than 20 years; they are an average lot of hard-working, capable men.

Yet less than a third of the whole number are earning more than a mere living. What is the explanation? Among these men, of course, are a good many teachers and ministers. Salary, in their case, is no criterion of success. But with the men in business and in most of the professions, income is one basis of measurement. And if you will analyze this class—or any other—you will find this striking fact:

That the great majority have become settled in departmental places, while only one man here and there has gained the all-round knowledge of all departments of modern business that fits him to discharge high executive responsibility, or to engage in business on his own account.

An institution for rounding out men

The Alexander Hamilton Institute was called into being ten years ago to meet a definite need. A group of educators and business leaders had been impressed with the fact that modern business develops specialists but does not train executives.

They determined to provide a Course and Service which would enable a man to add to his equipment a working knowledge of the departments of business outside his own. To give the salesman, for example, a working knowledge of accounting and office management; to give the inside man a working knowledge of sales, merchandising, advertising, corporation finance, etc.—in other words, an institution whose business should be to round out men into full business leadership.

That was ten years ago. In the succeeding years thousands of men, representing every kind of business and every department

in business have enrolled in the Alexander Hamilton Institute, and have proved by their own experience its power to shorten the path to success.

Great universities and great businesses

No similar educational institution has ever received such high indorsement at the hands of educational authorities. In forty-four leading universities and colleges, the books of the Institute are used as texts.

And the indorsement of business is no less emphatic and impressive than the indorsement of the schools. In the U. S. Steel Corporation 545 Alexander Hamilton Institute men are at work; in the General Motors Corporation 335 men are to be found; in the Goodyear Rubber Company 319; in the Standard Oil Company 801. There is no great industry in the country which does not have somewhere among its executives, large or small, men who have profited by the Modern Business Course and Service.

Not money merely, but satisfaction

The Alexander Hamilton Institute does not base its claim for consideration upon its power to increase men's incomes. Increased income and power follow naturally increased knowledge. But the real product of the Institute is self-satisfaction and self-confidence—the sense of content that comes to a man when he knows he is making the most out of his life that he possibly can make.

Evidence that the Institute can accomplish this result and has accomplished it for thousands of men is contained in a book entitled

"Forging Ahead in Business"

Just what the Modern Business Course and Service is, just how it fits into your own personal needs, just what it has achieved for other men in positions similar to yours—all this is fully covered in "Forging Ahead in Business." It is a guide to business progress well worth any thoughtful man's attention. And it is sent without obligation. Send for your copy today.

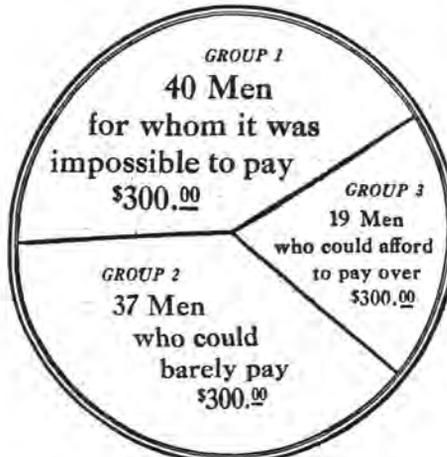
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