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ROBERT J. McCARTHY, '14, Editor.

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Union Memorial Building

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THE M. S. C. RECORD

Vol. XXXI. No. 13

EAST LANSING, MICHIGAN

December 14, 1925

ALUMNUS TELLS OF TRIP TO TROPICS

*Bradt, '25, Describes Guiana Where He Spent Summer As Member of Party
On Observation Tour; One of Nineteen College Graduates
Chosen for Work.*

Glen W. Bradt, '25, who is at present taking graduate work in zoology at the College, had a singular experience during the past summer. The University of Pittsburgh selected 19 men to study biological conditions in British Guiana. Bradt was one of the men chosen for this interesting expedition. An undergraduate in the division of applied science, Bradt put his greatest stress on biology and geology, making him desirable and valuable for a trip of this kind.

The expedition of the past summer marked the second trip of this kind sponsored by the University of Pittsburgh. The entire series of these trips are made possible through an endowed fellowship. The annual expeditions are not made with a particular purpose in view. Instead, general observations are desired, especially upon zoological conditions and tropical flora. A term's credit is allowed at the university to those participating in the trip.

Since his return Bradt has been called upon several times to narrate his experiences and discoveries before various groups, on the campus and off. In a recent issue of *The Michigan Agriculturist*, his observations on the trip are presented in an interesting style. The account tells of the topography of the country, the people, agriculture, resources and many other entertaining sidelights on the country.

Mr. Bradt states that the coastal area of Guiana is the only agricultural section of the country, being confined to a very narrow strip of land. Sugar cane, rice, coconuts, coffee, cacao, cotton, limes and other tropical fruits and vegetables are the staple crops of the region. The temperature is very uniform, varying from 72 degrees in

winter to 92 in summer. Rainfall is excessive, about 100 inches annually, almost three times the rainfall of this state.

According to Bradt the population is very mixed. Because the Portuguese, when they first conquered the land, found the native blacks exceedingly lazy, East Indians were imported for slave purposes. This movement was so marked that today these people represent 41 per cent of the population, while native blacks represent but 39. The remaining inhabitants are Indian, Chinese, white and mixed. The white population is about 4 per cent of the total. The population is about 300,000 and the country contains 80,000 square miles. This gives the colony but 3 1-2 people to the square mile. However, practically the entire population is localized to the extent that the greater portion of the land is uninhabited. Georgetown, capital of British Guiana, alone has a population of 120,000. In the interior of the country there are about 10,000 gold and diamond hunters camping along creeks near the headwaters.

The merchant class is Chinese and is rapidly displacing the old Portuguese merchants. The East Indians comprise the working class, many of whom now have their own holdings.

The donkey and water buffalo furnish power and locomotion to suit the needs of the populace. Much of the agriculture is carried on under water, making the buffalo a very desirable beast of burden.

Bradt states that very little agriculture is carried on for export purposes, as the country is out of the line of usual steamship routes. The country abounds in fruits, constituting the major diet of the native negroes, but due to poor transportation facilities, very little is exported.

There are but 250 miles of road and 116 miles of railroad in the entire province, states Bradt. Man power and donkey power are the means of locomotion.

The greatest spectacle in the land is the Kaieteur Falls, about 200 miles inland on the Potaro river. This fall has a perpendicular drop of 741 feet, a width of 350 feet at the brink, and a depth of 14 feet at normal times. It is nearly five times the height of Niagara falls. The inaccessibility of the fall has prevented it from receiving the fame which its proportions and grandeur justify. Bradt, with a party of five, was the sixth white man to see this unusual scene.

Mr. Bradt states that the journey up the Potaro from Georgetown takes about two weeks, and is made in canoes with Indian paddlers. Rapids and cataracts necessitate slow and dangerous travel. Some 200 people have been at the top of the falls, but only nine at its base.

In addition to being an exceptional scholar, Bradt has made a name for himself as a musician at the college. During his four years of undergraduate work he was a member of the band and orchestra. He plays clarinet and flute with unusual proficiency, having played first clarinet with the band during his affiliation with that organization. Bradt practically earned his way through college as a teacher of reed instruments, being instructor for both the band and orchestra.

U. P. ALUMNI MEET FOR ANNUAL SESSION

The Upper Peninsula branch of the M. S. C. association held its annual banquet at the College Eat Shop, in Marquette, November 12. Fifty people attended the banquet. This banquet always takes place in November during the annual extension conference, when many of the Michigan State College alumni are present.

The following alumni took part in the program for the evening:

L. R. Walker, '15, president; Wilbur Gasser, '07, toastmaster; Hugo Swanson, '23, yellmaster and song leader; Clinton Ballard, '12, "Kick Off"; Gladys Hoff, '24, "Forward Pass"; Gifford Patch, '16, "Touch Down"; Benjamin Pattison, '12, "Touch Back".

The banquet brought about a happy reunion for the alumni present and all joined once again in the famous college yells and songs.

Following the program, a short business meeting was held in which L. R. Walker was re-elected president of the organization for another year, and Emma DuBord was elected as secretary and treasurer, to succeed Mrs. J. G. Wells (formerly Bernice Woodworth, '17).

A motion was made by A. G. Kettunen, '17, and supported, that a committee be appointed to draw up a resolution opposing the propaganda printed in the press that the department of athletics at the State College is unsatisfactory. The resolution follows:

WHEREAS, certain articles have appeared in the Press, presumably coming from Alumni, to the effect that the work of the Department of Athletics at the College was unsatisfactory;

BE IT RESOLVED, that the Upper Peninsula Alumni Association go on record as being unanimously opposed to propaganda of this nature, and that they express to Director Ralph Young and his staff their sincere appreciation of the work done during the season just past, and

BE IT RESOLVED FURTHER, that a copy of this Resolution be sent to the Board of Control of Athletics at the College and to the Director of Athletics, Ralph Young.

Committee:

B. P. PATTISON
HUGO SWANSON
JOS. E. TURNER

Dated this 12th day of November, 1925.

WASHINGTON FINISHES TABLET CAMPAIGN

The M. S. C. Association of Washington, D. C. met at the Grace Dodge Hotel for an informal luncheon on Thursday, December 3. In true family fashion all gathered around one big table. Through Miss Clarke we learned, with regret of Gunson's illness, and a telegram wishing him speedy recovery was dispatched with haste in order that it might reach him while the luncheon was still in progress.

Following the luncheon, C. A. Reed, '05, president, asked the committee for a report regarding the bronze tablet which is to be placed in the Union Memorial building in honor of all college men who lost their lives during the Civil, Spanish American and World War. Dr. Taylor, '88, in the absence of C. G. Woodbury, '04, chairman of the committee, reported that all but \$10.00 of the necessary amount had been raised. Before the Association had time to act on how this deficit should be made up two members present each promptly presented Dr. Taylor with \$5.00.

A letter from the Barshal Company, Cleveland, Ohio, was then read, which reported that delivery of tablet could be made the second week in December.

The association voted to retain the tablet committee and give them authority to make arrangements for placing the tablet, and also for its appropriate presentation to the College. It was voted also to delegate some member of the Washington Association to make the formal presentation.

The meeting adjourned until some evening in February when the annual banquet will be held.

Members present were Dr. W. A. Taylor, '88, Mrs. Taylor; Dr. C. B. Smith, '94; Mrs. R. H. Waite, '98; Homer C. Skeels, '98, Mrs. Skgels; Mr. and Mrs. C. A. Reed, '05; Cora L. Feldkamp, '05; Florence Hall, '09; Blanche Clark, '09; C. D. Curtis, '11; Harry Lee Baker, '11; Harris Collingwood,

'11; H. B. Hendrick, '12, Mrs. Hendrick; R. R. Pailthrop, '13; B. E. Shaffer, '15.

H. E. Dennison, '11, field man for the American Jersey Cattle club, on his way to New York, stopped in Washington and spent last Sunday with R. A. Turner, '09. Other M. S. C. people learned that Dennison was in the city and who stopped in at the Turners to see him were C. A. Reed, H. B. Hendrick, '12, Edna McNaughton, '11, and Blanche Clark.

E. B. Reid, '12, has purchased a home at 1314 Delafield place. He has been attending the convention of the American Farm Bureau federation at Chicago.

FORMER COACH TALKS ON SCIENCE ROMANCE

"The world has been revolutionized by science," Professor F. R. Moulton of the University of Chicago told the students of the college at a special convocation on Friday preceding Thanksgiving. "The hours of toil have been reduced in number by science and its most important contribution is our relief from incessant labor."

"We have become enormously productive", continued Mr. Moulton, "but we should not be content with our productivity. We must look forward to a still greater increase. Youth loves adventure. I know that from the number of fantastic ideas of adventure that I had when I was young. Science offers adventure—adventure in exploring the realm of the construction of matter. We have had more adventures in science since 1900 than ever before in the history of the world and we shall continue to satiate our love of discovery and exploration in this field. A young man is fortunate who lives in this day and age of progress in a country that is finer than any other on earth. America is richer in resources than nearly all the eastern continent. Adventure will not be lacking in stimulating these resources."

Professor Moulton was at one time the football coach at the College.



VIEWS AND COMMENT



No further issues of THE RECORD will be printed until January 12. The lapse in publication for a period of three weeks over the holidays is due to the schedule calling for but thirty-five issues annually and three of these being published during the summer months. An additional advantage of a monthly publication is that it would be issued at regular intervals throughout the year. THE RECORD wishes its readers the Christmas joy of knowing that they have faithfully done all they could for the success of the Union Memorial building project and the satisfaction which comes from having their subscriptions paid up to date. For the New Year it offers wishes for success that its columns may be filled with good news about individuals and that their work of sending in the details about themselves may provoke similar activities in others.



In preparing the football schedule for 1926 Director Young was faced with the necessity of listing several teams, not because it was especially desirable that they be included but because it was necessary that some teams be brought to East Lansing. It would have been possible to play a first class list of games if all of them were contested on foreign fields. As it stands the schedule will be a strong one and one of the most interesting in recent years but it lacks, as its predecessors have lacked, the high spots which make such competition most attractive. Michigan will again be met, this time perhaps Coach Yost will bring his team to East Lansing, although that detail is by no means certain. Cornell will be met at Ithaca. Centre and Colgate will appear among the opposition because of a two year agreement and the Haskell Indians will play the final contest of the season in the new stadium. Of the other games that with Lake Forest will be closely fought and should be attractive with

Michigan colleges filling in the open dates remaining.

There is no let up in the rigor of the opposition afforded the team. Its exhibition during the past season does not indicate that there should be an effort to make the list of opponents less formidable unless it be to make a record in total scores for the season, an achievement of decidedly questionable value. In Michigan, Cornell, Colgate, Centre and Haskell the varsity will have a goal worth working for, with less worthy opposition any satisfaction gleaned from the results would be superficial. It may be that this type of schedule will take the emphasis off the Michigan game, as the highest spot in the season, at least that is an end to be fervently desired.



Soviet agrarian propaganda has been forwarded to THE RECORD with a request for an exchange of publications. The Russian leaders are of the opinion that the "toiling farmers throughout the world" should unite, for some reason not made clear in the communication and include a list of attractions of the various soviets which consist largely of the appropriations of staggering totals of rubles for improvements to aid the farmer. It seems a rather inappropriate time for this sort of propaganda. The American farmer is necessarily an individualist, one of the factors working against successful cooperation, but he is also well enough educated in economics and political science to see the error of "down with the capitalist order" for he is a capitalist.

A student writer in a recent issue of The State News finds much to be desired in the way of better productions by the dramatics organizations. He characterizes the plays as worthless and the acting as more amateurish than necessary.

"Close Beside The Winding Cedar"

President Seaton of Albion college addressed the convocation on December 9.

Under the auspices of the People's church teams of students are being sent to nearby places to conduct services in the churches.

Christmas was heralded on the Campus by decorating one of the large spruce trees with colored lights and surmounting it with an illuminated cross.

The varsity won both of its early season games of basketball, easily defeating Olivet and Adrian and demonstrating more individual merit than team play, a condition which is a recognized weakness on most fives when play is started.

It is announced in the Cornell Alumni News that Georgia L. White has resigned as dean of women effective July 1, 1926. Miss White was dean of the home economics division at the College from 1913 to 1918 and is a graduate of Cornell. The alumni publication pays high compliment to her ability.

Members of the class of 1927 are working out the plans for the annual J-Hop which will this year be held in the Union building. It will follow the custom of previous years and be the "best in history" but will add to the prestige gained by other classes because of the unusual opportunity offered by the new building.

Harold E. Brooks, '28, Lansing, a student in the engineering division, has received an appointment to West Point. He competed in the regular examination and was appointed first alternate. He then enlisted in the National Guard and was appointed to the academy through that organization. He was one of the most promising players on the freshman squad last season and expects to compete for the varsity this year continuing his studies at the College until Next June.

Students were urged to classify and register before leaving for the holidays.

Xi Sigma Pi, national honorary forestry fraternity will convene at the College on December 18. There are chapters of the fraternity in all important forestry colleges in the country. Professor A. K. Chittenden is president of the organization and P. A. Herbert of the forestry department is national secretary.

Equipment of the electrical engineering laboratory has been increased by the addition of two five-horse power motors loaned by the Century Electric company of St. Louis, Mo. The company proposes to loan the machines for a year and at the end of that time to replace them with others of the latest design at that time.

Carl Bittner, '26, Sodus, won first place in the speaking contest at the Grand Rapids convention of the State Horticultural society, speaking on the subject, "Development of Special Markets." H. B. Farley, '26, Albion, won second place. He spoke on "Why Thin Apples?" Louis Bregger, '26, Bangor, received third prize, speaking on "Can the Peach Come Back."

"Posture Week" was staged on the campus by the members of the Women's Athletic Association. Signs, posters and tags carried the message home to every one venturing on the campus, men and women alike, whether students or members of the college staff. Every member of the association was on the job continually, reminding people of incorrect postures and turned-in toes. The week's drive was brought to a close with a special convocation for women in the Little Theatre, at which lectures were given on correct posture, proper shoes and demonstrating the correct methods of walking, sitting, standing, etc. Margaret Foote, '26, Lansing, is president of W. A. A.

COLLEGE HORSES GAIN HONORS AT BIG SHOW

According to early reports, the College scored heavily in the Percheron class at the International show at Chicago.

Leila, 5-year-old Percheron mare, took first in her class in addition to being named senior champion Percheron of the show.

Utelem, 2-year-old Percheron mare, was awarded first in her class and made junior champion.

Dunham Marie, 5-year-old Percheron mare, placed third in her class.

The record is claimed to be the best ever made by one competitor at the show.

DETROITERS PROMISE BIG TIME JANUARY 15

The Detroit State College club is putting on a big jamboree at the Detroit Federation of Women's clubs, Second and Hancock, on Friday night, January 15; this jamboree to be in the form of a costume party. Elaborate prizes will be offered for the best dressed couple. There is still a question as to whether to offer a booby prize for the other extreme or to throw the individual deserving the booby prize out of the hall.

The best of music has been secured and refreshments of an unusual nature will be available. The committee doesn't wish the statement about the refreshments to be misconstrued, nor do we wish to build up any false hopes, but we repeat that the refreshments will be unusual.

This party is going to be a real get-together and mixer. Formality will be cast aside and a sure enough good time is going to be had. The committee wants a big crowd and the effort which is being put into this event justifies it.

The assessment fee will be very reasonable and the returns in good fun will be large.

Committee.

L. H. BAILEY, '82, HEADS FARMERS' WEEK LIST

Liberty Hyde Bailey, '82, will be one of the chief speakers at the annual Farmers' week meetings in February. Bailey served many years as dean of agriculture at Cornell university and is the leading publicist in the horticultural field. His portrait will occupy one of the most prominent spots in the new horticultural building and his name heads the list of those internationally famous in the science the new building will foster.

C. W. Warburton, director of extension work for the U. S. department of agriculture will also appear on the program which will be further filled out by later announcements.

Special exhibits for the week will include a showing of the work of the corn borer and specimens of the insects which have been doing such great damage in Canada and certain sections of Michigan. Other showings for the week will be along the lines pursued annually.

WOULD POPULARIZE UNION OPERA SONG

To create a keener demand for all-college singing, L. E. Skellenger, '26, cheer leader this year, has selected the chorus of the song "Varsity" as one to be learned by the students of the college. It is expected that this song will take its place with the Alma Mater and Fight Song in the favor of the students. The Varsity song was written for the Union opera "Campus Nights". The words of this song are:

"Varsity, my varsity, march on to victory.
Fight, fight, with all your might, you State
boys,

Can't you see the colors flying?
Green and white will wave above,
Colors we'll always love,

We're here to cheer for dear old Michigan
State."

FIRST ENGINEERING BULLETIN PUBLISHED

"The Heat of Combination of the Constituents of Brass" is the subject of the first bulletin to be published by the engineering experiment station of the College. F. E. Seifing, of the department of mechanical engineering, is the author.

To the engineer whose work involves metals and their use this bulletin should prove highly interesting. The pamphlet is so presented that the problem with its results, importance, history and thesis are all carefully written and set up.

The bulletin tells that quantitative work on the heat of combination of metals, notably copper and zinc, was treated as early as 1909 and that these preliminary experiments gave rise to the belief that more than one compound of zinc and copper took place, giving rise to the Cu-Zn series of combinations. The problem treated in this text report is a study of the change in energy taking place when the more common alloying metals are combined with copper.

The experiment presented discusses the use of the electric furnace in the alloying of metals. Samples containing varying amounts of copper, zinc, tin and lead were used in the experiment. Some contained but two of the metals, some three while others were composed of all four. The effect of electric furnace treatment of tin alloys receives considerable attention.

Dean Bissell announces that copies of this bulletin may be secured by addressing his office in the engineering building.

ELECTRICAL SHOW FOR FARMERS' WEEK

Under the auspices of the College branch of the American Institute of Electrical Engineers the senior electrical students will conduct an electrical show during Farmers' week in the laboratories and classrooms of Olds hall. There will be exhibits from various manufacturers as well as

those made up of the equipment available in the laboratories.

Seniors head the various committees. H. C. Roberts, Harrisville, is general chairman; R. J. Plourde, Vulcan, has charge of operation; R. A. Bailey, Ovid, is chairman of the exhibits committee; Elwood Geegh, East Lansing, and L. B. Whelan, Detroit, are other chairmen. Professor L. S. Foltz is faculty advisor. It is predicted that the show will be much larger and more complete than was the one which was staged last spring.

MINOR AWARDS GIVEN FOOTBALL PLAYERS

Special awards to members of the varsity football squad who did not receive the letter have been announced as follows:

Six football men were given heavy weight service sweaters and 12 received light weight service sweaters. The men to receive the heavy weight sweaters are as follows: Paul J. Anderson, Lansing, senior, end; Allen T. Edmunds, Bedford, senior, end; Fred F. Eberbach, sophomore, center; Perry J. Fremont, Bad Axe, junior, quarterback; Harold C. Kiebler, Manchester, junior, halfback; Eugene J. Valentine, Detroit, sophomore, guard.

The following men received light weight service sweaters: Gerald I. Collett, Hillsdale, junior, end; Horace B. Farley, Albion, senior, tackle; Charles C. Frederick, Saginaw, junior, end; Floyd C. George, Elsie, sophomore, halfback; Ogden E. Grimes, Des Moines, Ia., sophomore, guard; James A. Lewis, Owosso, sophomore, end; Walter W. Neller, Lansing, sophomore, guard; Jack W. O'Connor, Hastings, sophomore, end; William H. Schneider, Marquette, junior, halfback; Ralph C. Timmick, Muskegon Heights, sophomore, guard; Elwyn A. Wenner, Brooklyn, junior, tackle; Lyn M. Wolfinger, Litchfield, junior, quarterback.

Milton J. Francis, '26, Ontonagon was given the manager's letter.

1926 SCHEDULE NEARLY COMPLETE

Michigan to Be Met in Third Game; Cornell and Haskell Indians Replace Penn State and Wisconsin; Adrian Selected to Again Open Season; Promising Material Developed.

With Michigan scheduled for October 9, either at Ann Arbor or at East Lansing; Cornell at Ithaca, October 16, Colgate at Hamilton, N. Y., October 30; Centre either at East Lansing or Dansville, Ky., November 6 or 13, and Haskell Institute at East Lansing, October 20, Director Young has almost completed the listing of games for the 1926 season. Lake Forest will return to East Lansing on October 23, in an attempt to repeat its triumph of this fall and Adrian will open the season on September 25. Other dates with the exception of either November 6 or 13 will be filled by Michigan colleges. It is planned that there will be one week-end on which there will be no game.

In preparing the schedule Director Young corresponded with a large number of colleges and universities, he attempted to engage some of the smaller universities in the Conference and some of those in the Missouri valley. In all cases it was a matter of being unable to guarantee a home and home agreement or the inability to fix upon a date which would not conflict with other arrangements.

Among the Conference teams the attitude is that the smaller universities cannot afford to leave their home fields for an outside team because much of their playing within the organization must be done away from home. It is almost impossible, as well, to bring the larger teams to East Lansing, with the exception of Michigan which has consented in years past to make an occasional pilgrimage from Ann Arbor.

In the lineup, as announced, Cornell takes the place of Penn State and Haskell fills in for Wisconsin as compared with the

1925 list. There are no "soft" places in the opposition selected but the squad will have two games in which to prepare for the Michigan contest instead of running against the Maize and Blue in the second appearance of the year. When Lake Forest comes on October 23 it will have the best record of any smaller college team on the list. In 1923 and 1924 the Illinois school developed a constant threat and in 1925 capped its previous performances with a victory. Adrian is not such weak opposition as might be provided for the opening game but is still not in the class where it is likely to furnish a defeat for the home team in its first appearance of the year.

The past season saw the development of several players who should prove valuable to the squad next fall, in fact most of them were assets this year. In the backfield, Smith, McCosh, VanBuren, Fouts form an experienced quartet which would make good on most college teams and they were all playing their first year. In addition to these there is Boehringer and Fremont who will probably be available. The biggest surprise of the year was the consistent performance of Grim at end. In 1924 he was far from being a satisfactory player while this fall he was the best end State could put onto the field. Lewis and O'Connor will also be in line of duty as will Collett, who has seen some service. Ross at center, Garver at guard or tackle, Rummel at tackle, Eberbach, guard or center, Neller, guard, Valentine, Grimes and Needham, composes much of the reserve strength for the line.

Doubtless there will be men from among the freshmen to add numbers and an uncertain amount of strength to the squad which will attempt a better record than its predecessor on a schedule fully as difficult.

NEW MAN ASSIGNED UNDER FOUNDATION

Doctor Ballenegger, newly established head of the horticultural college in Budapest, Hungary, will be the third exchange professor to come to the College under the auspices of the American-Hungarian foundation. Ballenegger will study and do research work in soils under the direction of Professor McCool. He will arrive in time to take up his duties at the beginning of winter term.

The American-Hungarian foundation was originated and established at the College in 1923, first as a student enterprise and later, when given official recognition by the State Board of Agriculture, made into an activity of the College with the committee on advanced degrees, of which Professor Bessey is chairman, in charge of the foundation.

At present Professor H. J. Stafseth, department of bacteriology, is exchange professor to Hungary.

FRESHMAN NUMERALS AWARDED TO SQUAD

Members of the freshman football squad winning numerals this fall follow:

William Moeller, Detroit; Roy Fulton, Webberville; Carl Felt, Muskegon; Hugo Kanitz, Muskegon; Henry Arnold, Escanaba; William McGirr, Alpena; Rex Tuttle, Walled Lake; Fred Danzinger, Detroit; Howard Deuaville, Alpena; Ernest Deacon, Lansing; James Bothwell, Saginaw; Harold Fisher, Detroit; Dan Webber, Columbus, Ohio; Ed Childs, Adrian; John Anderson, Lansing; Dwight Archer, St. Joseph; Harold Haun, Charlotte; Jack Hornbeck, Lansing; George Smith, Kalamazoo; Burr Bevier, Battle Creek; James Zeller, Pontiac; Fred W. Barratt, Lansing; Glen Hitching, Petoskey; Ralph Wills, Flint; Louis Hernel, Traverse City; Marvin Egert, Lansing; Charles Grabill, Battle Creek; Joe Joachim, St. Claire; Theodore Ehinger,

Adrian; Ed. Richter, Bay City; James Warner, Flint.

WORK ON RAISING CROPS UNDER GLASS

Under the direction of Prof. J. W. Crist of the department of horticulture, experiments are being conducted on the raising of leaf lettuce under glass. This has been made necessary by competition from other sections of the country, notably California, where lettuce is being raised in large quantities and shipped to eastern markets.

In addition to leaf lettuce, Crist is studying the culture of Swiss chard, Chinese cabbage, French endive and New Zealand spinach, all of which grow under practically the same conditions as lettuce. Crist states that a year will be necessary to ascertain actual possibilities and obtain standardized results.

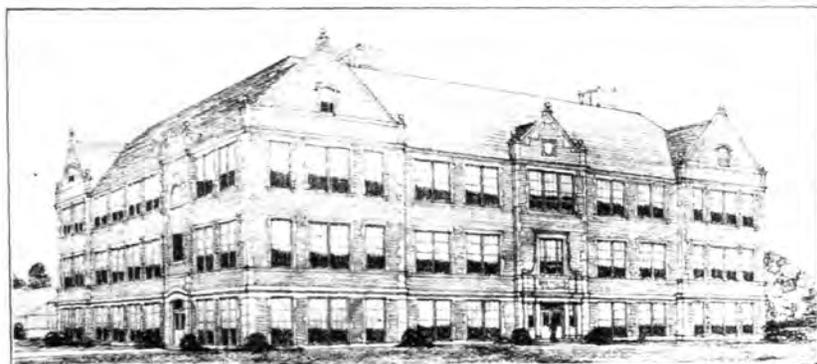
WKAR COOPERATING IN U. S. RADIO TESTS

Investigation of the problems which affect radio broadcasting is being carried on by the College engineering department in co-operation with the U. S. bureau of standards and several other institutions, of which WKAR is the farthest west.

Under the title of "Co-operative Investigation of Radio Wave Phenomena," tests have been made to measure the relative strength of radio signals received from a given station and graphically recording the results, the fading of signals during the eclipse of the sun and the fading signals at sunset. There has also been a comparison of the signals received from ordinary and super-power transmission.

In the finals of the co-ed hockey games the freshmen defeated the seniors. Final matches were delayed several weeks due to bad weather. The soccer games will be played off as soon as the weather permits.

Attraction for Horticulturists



Architect's drawing of new Hort building which will be formally opened by convention of State Horticultural society, Farmers' week.

NECROLOGY

WILLIAM H. CLEMONS

William H. Clemons, '86, died at his home in Durand, Michigan, on Tuesday, October 20. He had been ill for more than a year. Mr. Clemons was born near Pontiac August 23, 1864, attended the public schools at Davisburg and completed the course in agriculture with the class of 1886. Following graduation he went to Durand where he entered the hardware business, conducting a store for two years before starting work as a traveling salesman which he continued up to the time of his death.

He is survived by his wife, Aggie Button Clemons, two sons James and John, his father and a brother, John, '86. He was a member of several masonic orders and had served his home community in several capacities. In College he was a member of the Union Literary society.

Ray Riggs, '26, Flint, has been elected president of the newly organized student congress which will discuss Campus problems but which will not be an executive body. The congress is made up of representatives of all Campus organizations.

Believing that a name should be supplied for the athletic teams to replace the term "Aggies" the board in control of athletics has offered a prize of \$10 to the person submitting a name selected as most desirable by a committee whose membership will not include a member of the board. Suggestions should be mailed to Director Young.

The Michigan Union opera "Tambourine" is scheduled to appear at the Strand theater in Lansing on December 19. The State Union vaudeville with a greater number of good features than it offered last year, when it was highly commended by the audiences will be staged at the Gladmer theater during the last three days of Farmers' week.

Tau Sigma, honorary liberal arts and applied science society has announced the selection of the following new members from the senior class: John Breor, Hatfield, Mass.; Richard Lyman, East Lansing; Stewart Bair, Grand Ledge; Evelyn Cornman, Alpena; Garrett Cooper, East Lansing; Emory Houk, Boyne City; Gerald Montgomery, Lansing; Robert Powers, Hartford.

Why is *An Alumnus*?

It might be more to the point to ask, where do these theorists get the idea that in the life of an individual there is such a factor as college spirit.

An Alumnus is a person (either masculine or feminine, according to the most recent interpretation) who has received a degree from an institution of higher learning. It may be one of the various academic appendages conferred by the faculty or it may be an individual appellation presented by his classmates before the College made up its mind that he was eligible for the regulation honor. In any case *An Alumnus* is one who has extracted something from the atmosphere of a college which is not absorbed by the one who merely lives in a college town. One entitled to this distinction has qualifications other than those necessary to win the approval of the faculty and outstanding among these is college spirit.

This prolongs the argument, for college spirit is a much abused term. The true nature of the ailment has never been definitely decided, it is an infection which causes the heart to palpitate, an irresistible force which brings the victim to his feet when Alma Mater is played or sung, a chronic inflammation which had its inception when the *alumnus* was yet an undergrad and walked across the Campus on a bright spring day or waded through the snowdrifts after a January storm. More than this it exerts a mysterious influence which in later years draws the important events of college days into focus, sorting out individuals and occasions but blending the whole into a tapestry woven from fondest memories. It constitutes—and draws to itself strength—the bonds which draw the graduate to his alma mater.

There are some three thousand of these peculiar individuals who read The M. S. C. RECORD thirty-five times each year and the cost to them is but \$2.50 each twelve months, for which they are also given the privileges accorded members of the M. S. C. Association. Of course the office of this publication is on the Campus at East Lansing.

(Reprinted from the 1925 Wolverine).

CLASS NOTES

'74

Charles M. Chaffin, Ithaca, has had an interesting and varied career. Following his course at M. A. C. he taught school successfully for 20 years. He was a practical photographer, being considered a view artist of more than usual ability. For the last 40 years he has been reporter for the Gratiot County Herald and he is still making views and groups for the Michigan Farmer.

'76

Russel A. Clark received his B. S. degree at the college in 1876 and the L. I. B. degree at Michigan in '78. Until 1890 he was an attorney and from that he went into the insurance business, remaining there until 1908. Since that time he has been engaged in the iron and steel business in Pittsburgh. Present address 1215 Chamber of Commerce building in that city. One of Clark's achievements is the invention of a nut lock.

In 1907 Clark was president of the Alumni Association. He presided at the Semi-Centennial of the College in 1907. A nephew, Frank G. Clark, was with the class of '93, and a son Russel A. Jr., attended from 1902-04.

Erwin D. Clark was with the class of '76 and received the M. D. degree at Michigan in 1885. He was a farmer and teacher until 1885. Since then he has practiced medicine, specializing in eye, ear, nose and throat diseases since 1895. His present address is 710 S. Park street, Kalamazoo.

'81

Herbert Bamber has practiced civil engineering since his graduation from the College, residing in Highland, Mich. A brother, Albert M., was with the class of '83; a cousin, Glenn H. Hayes, with the class of '07, and a nephew, Herbert J. Buell, with the class of '15.

'82

Alford J. Chappell graduated from the agricultural course in '82. For a time he was deputy surveyor of Montcalm county, taught school from 1885-87, was a druggist from 1887-89 and then returned to school work as superintendent, a position he has since held. His address is Farwell, Clare county. While in college he was a member of the band and orchestra.

'84

Warren D. Barry, since his graduation in '94, has been in railroad survey work in Kansas, Colorado, Utah, California and Mississippi. Since then a hardware merchant. Address is Long Beach, Calif.

'88

Albert E. Bulson, 406 W. Berry street, Fort Wayne, Indiana, is told of as follows in "Who's Who in American Medicine."

"B. S. from M. A. C. in 1888, M. D., Rush college in '91. Post graduate at Michigan and Philadelphia, 1894. London and Berlin, 1906. Since then he has practiced and taught medicine and surgery. He is a Fellow of the American College of Surgeons. During the war he rendered volunteer medical service with the medical advisory board at Fort Wayne. He is associate editor of several books relating to ophthalmology and is the author of 100 or more articles relating to diseases and surgery of the eye, ear, nose and throat, published in various American medical journals.

Paul M. Chamberlain received his B. S. in engineering in '88. Since that time he has closely followed the study of his profession, having taken advanced work at Cornell in addition to his work at the College. Chamberlain has been engaged in work dealing with conveying machinery, steam engines and refrigeration machinery. From '96-'98 he was a member of the mechanical engineering staff at the College, leaving that to enter the field of consultant engineer. During the war he held the rank of major. He may be reached at the Marquette building, Chicago.

'91

V. S. Hillyer now lives at 2829 Central avenue, Indianapolis, according to postal authorities.

'11

I. J. Cortright stopped at the alumni office the other day. He is at present athletic director at North Dakota Agricultural college. He had a very successful season in football, winning the North Central Conference championship. On Dec. 7 his basketball team defeated Wisconsin at Madison. Cortright says: "The College shows a lot of expansion and growth since I saw it last. The new stadium and Union building are fine and make me feel proud of the old school. Other M. S. C. men at our school are: O. O. Churchill, '87, in agricultural work; F. McCardle, '87, secretary of the college; J. Dice, '08, dairy work and E. A. Willson, '07, in extension work."

'12

R. B. Delvin turns in the following change of address: 270 East 41st street, N., Portland, Ore.

'15

The office is notified of the change of address of H. J. Buell to 33 West 33rd street, Indianapolis.

'17

S. J. Culyer lives at 616 Lockwood, Petoskey. He is agricultural agent for Emmet county.

'18

H. K. French is now manager of the Plymouth and Northville Gas company, Plymouth.

'19

Burt L. Schneider lives in Deseret, Utah.

'21

Loren Shedd, 501 E. Ann street, Flint, writes: "Have just started to 'labor' in the engineering department of the Buick Motor company. I find a goodly number of State men here so I will not lack for company."

'25

Jay Bee Martin is with the People's Gas company, Glassboro, N. J.

Louis J. Vincent is teaching agriculture at Hudson. His address is 120 Seward street.

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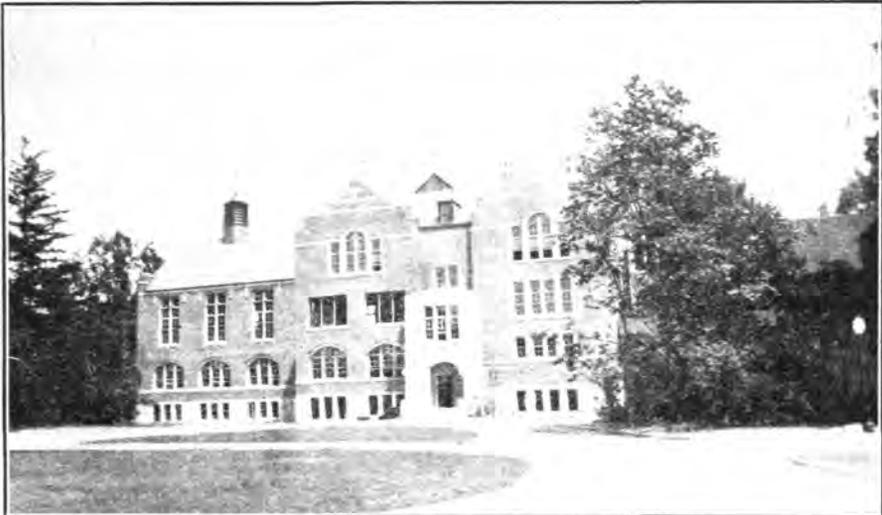
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