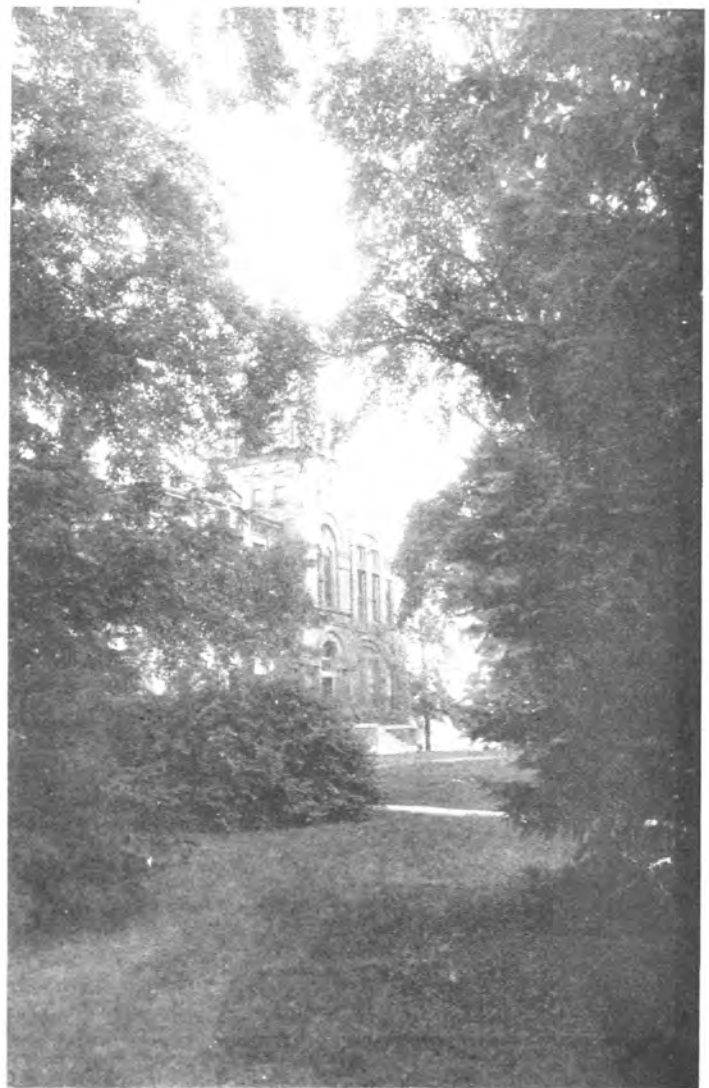
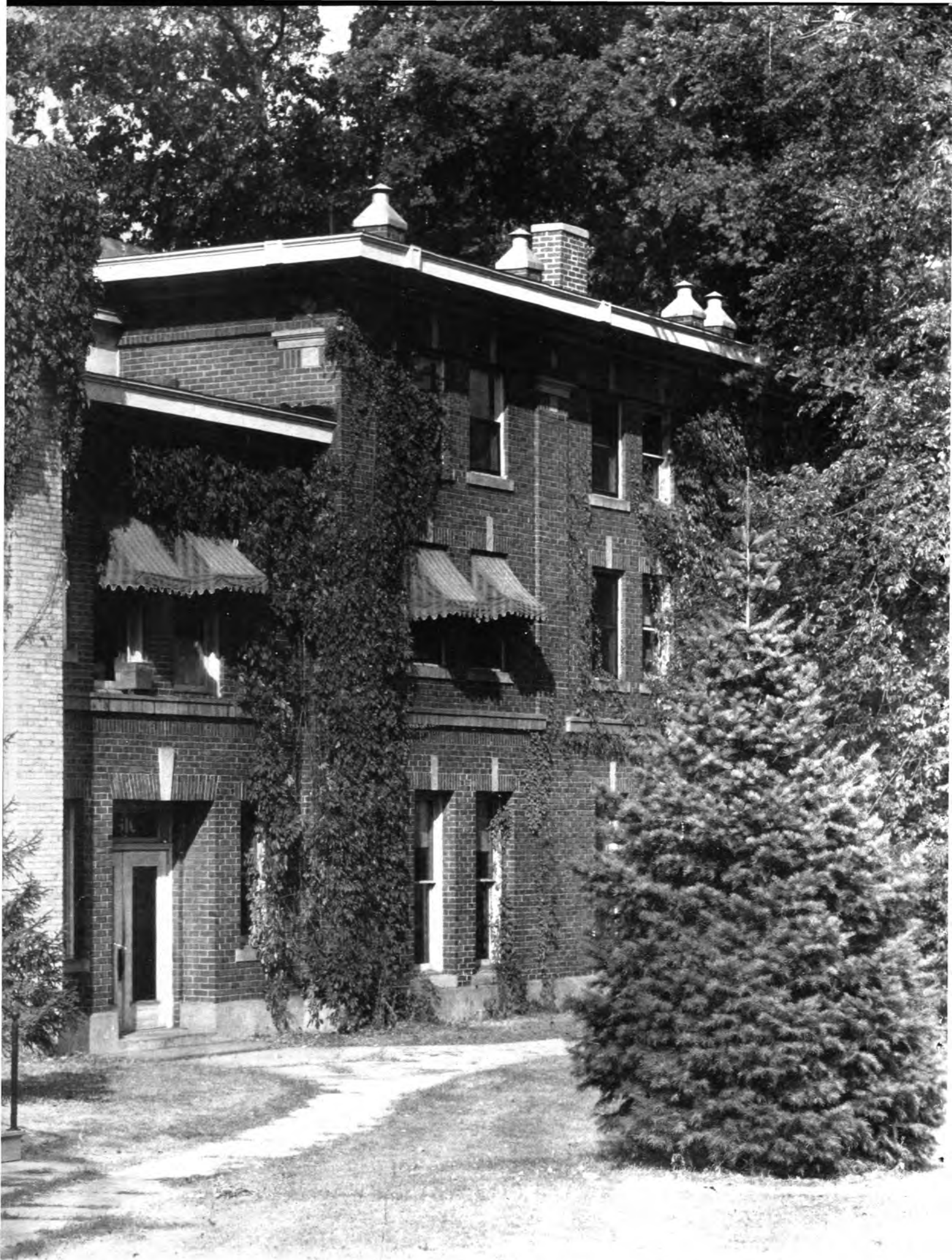


MICHIGAN STATE COLLEGE



RECORD



PHYSICS BUILDING . . . ONE TIME CHEMICAL LAB

Listening In

● "CRITICS of American higher education generally agree on one point, if on no other: "mass education, in principle and practice, has been its chief characteristic. The training of leaders has also been a characteristic, but in the main we have not resolved this paradox and the second has usually been obscured by the first.

"As long as the American people continue to believe in education as the vitalizing force of the democracy, so long will they continue to support schools of all kinds. There is no evidence of diminution at this point, the curve is upward, not downward.

"Now the factor of internal adjustment to this problem enters. Although lack of selectivity, in the European sense, will probably continue, there is no reason why mass treatment need continue. In the past, adjustment of the student to the institution has been the prevailing point of view. In the future, institutional adjustment to personality will be the objective.

"The range of individual differences is so great in every student body, as the psychologists have shown, that it is no mystery why mass treatment has failed. Educational guidance is beginning to point the way.

● "GUIDANCE is the essential principle to many college plans and programs today. It operates in many diverse ways, according to the varying conceptions of our institutions, but its principle is the same. This principle is so to organize the college work that each student may reach his highest potential.

"Special treatment according to the needs and interests of students has resulted in major changes in the college. It has brought about changes in curriculums. It has demonstrated that differentiation of functions within the faculty is often desirable. It has cast its light upon many dark corners in educational practice.

"But its most important contribution is that it has again revealed the one, unchanging factor in our problem, the human, individual student. With the student's problems, difficulties, and successes the college will be much more occupied in the future. In that sense it will be increasingly effective since its goal will be better educational service to the citizens of tomorrow."—John D. McKee, Alumni Secretary, Wooster College.

Let's Go, Gang! . . .



Remember way back when that clarion call thrilled you through and through? How your pulse jumped to 100, and you leaped to answer the call?

The same old call is ringing out today to every alumnus of M. S. C. The old college needs your help, to be given in the same spirit and with the same fervor as in the old days. Let's go!

The time has come to secure new students for next fall, and the alumni, as in the past, are the spearhead of the attack. High school seniors are already beginning to talk of college and to make plans for the coming year. The opportunity to come to the aid of your Alma Mater in a practical way is here. What are you going to do about it?

For some months in the past year, a series of ads in the "Record" has given you the necessary information regarding the curricula of the College. Two divisions—Veterinary Medicine and Engineering—have not yet been covered, but they will be in the next month or two. In the meantime familiarize yourself with the diversity of courses offered in the other divisions, and go out and talk M. S. C. To you as alumni, there is no institution like it. Make the prospects whom you contact feel the same way. Let's go!

Send the names of students who are likely prospects and who stand high in scholarship to the Registrar so that the College itself can contact them and reinforce your efforts with booklets and circulars about the institution and the courses offered. Action is what counts. Strike while the iron is hot!

« LET'S GO! »

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MICHIGAN STATE COLLEGE RECORD

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GLEN O. STEWART, Editor

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Volume 40

MARCH, 1935

Number 7

What Will the Next Two Years Bring Forth?

● JUST how much money will be appropriated by the State Legislature for the support of Michigan State college during the next biennium, is of course not known at this time. President Shaw and Secretary Hannah have carefully worked out, with deans of each division and department heads, what they consider to be a bed-rock budget. There have been plenty of scars made during the past few months on institutional budgets but the big scar, to the casual observer, were the House and Senate bills passed recently eliminating all future mill tax appropriations for the College and the University. It means, if both branches of the state government approve and Governor Fitzgerald adds his signature to a concurrent bill that all future appropriations for the two leading institutions of higher learning in Michigan will have to be made each biennium by the Legislature directly from the general fund of the state of Michigan. Just on what basis the appropriations are likely to be based is at present the big problem.

● SPEAKING before the Ways and Means committee of the House last week Secretary John Hannah, who is handling the College appropriation, stated: "The request we are making for Michigan State college represents the most deliberate and conservative judgment of the administration and is tempered by a corresponding appreciation of financial conditions of the state. The College has gladly accepted the requests of previous administrations to adjust operations downwards to conform to the requirements of economy. We have lived within an income from legislative appropriations which declined from an annual appropriation of \$1,640,248.18 per year for 1929-31 biennium to \$1,000,000 for the current biennium, a reduction of 39 percent.

"The annual appropriation for agricultural extension work has been decreased from \$335,000.00 for each year of the four year period 1927-1931 to \$178,609.00 for each year of the current biennium, a reduction of 47 percent."

● THE legislative committees of the House and Senate have visited the College and during the past week several bills have emerged from committee chambers. Perhaps by the time of the April issue a

complete appropriation bill will have been passed and the RECORD will be able to give complete details. For the present, however, Senator Mosier's bill asking for a College budget appropriation equivalent to the value of 30/100 of a mill out of the general budget, has the approval of the College authorities. If this bill is passed, the biennium appropriation would be about \$1,669,000.00 for each of the two years, and out of this the College would match all monies coming to the institution for extension work and in addition allocate \$276,000.00 for the experiment station.

One of the problems confronting administration authorities is the inability to forecast with certainty what general economic conditions will be during the next two years. The recent rise in optimism may prove temporary or it may be the beginning of a sustained come-back.

● ACCORDING to Miss Elida Yakeley, registrar, more applications are arriving concerning enrollment for next fall than her office has ever experienced. This registration curve, which started here last fall with a 17 percent increase, has apparently reached many other colleges and universities. The probability would seem to be that this rise in registration will continue on an even larger scale through the coming biennium. Again, the rise or fall will depend upon economic conditions.

● SHOULD this expected upturn in enrollment take place, the burden which has been placed on the teaching staff through the policy pursued during the depression years of non-replacement of staff members who have left either by reason of resignation or death, will be materially increased. Classes are now practically at the saturation point. Should the enrollment increase accompanied by an increase in the size of classes, the quality of instruction must surely suffer, unless the teaching staff is increased to care for the additional students. All of these facts were presented to the legislative committees by the administration when the institutional budget was submitted to them. Legislators are completing a careful study of the facts submitted and will shortly make their estimate as to just what the next two years will bring forth.

Five Reasons Why . . .

1. The College has taken the lead in the economy program of state educational institutions by limiting its personnel and cutting salaries.
2. The large increase in enrollment places heavier demands upon its personnel and physical plant and indications are that the College will see its greatest growth during the next four years.
3. Its legislative request represents conservative judgement—President Shaw insists on exact statements of fact rather than "inflated requests".
4. The demands on the Extension Division and Experiment Station are increasing, not lessening, through the many new activities of the Agricultural Adjustment Administration, for extra services for Farmers' Week (whose attendance is the greatest in America) and a variety of special conferences.
5. The people of Michigan believe in the College as is indicated in the enrollment this year—M. S. C. is an agency for the development of the manhood and womanhood of the state—and is asking for sufficient funds from the legislature and the governor to share jointly the trusteeship which will meet adequately the confidence of the people of the Commonwealth.

Administrative Board to Decide Fate of Union Building

● **FACED** with a huge unpayable debt of \$300,000 on the Union Memorial building, the M. S. C. Association and the M. S. C. Union have requested the State Administrative board to take full control of the building and the ground lease upon which it stands, with a request that as soon as possible it be placed under the direction of the State Board of Agriculture and run as a department of the College.

This action was taken on March 12 after it became evident that the first mortgage bonds could not be retired in November. Only about \$23,000.00 has been paid on interest; it has been impossible to meet the balance. A vigorous and hopeful effort is being made to settle a contractors lien on original construction and this the Alumni Association expects to do before May 11. Many people have recently paid fifteen percent of the balance of their old pledges and others have promised additional assistance to meet this particular debt of honor.

When complete data was placed before Governor Fitzgerald and the State Administrative board last week the matter was referred to the finance committee of that body.

● **FOR** some time it has appeared that the Union project was too large for the alumni to finish. Economic conditions of the past five years virtually stopped all pledge income, yet the building remained opened and became more useful each year as a campus building. College authorities agree that the Union building has filled an important part in the development of the institution and want to see it finished and completely furnished with attractive interior appointments. In addition to the \$300,00.00 mortgage money which was put into the building, approximately \$160,000.00 of alumni pledge funds have been used in the construction and furnishings. If the contractors lien can be removed and the State cancels the bonded indebtedness, the College authorities believe it possible to receive PWA funds to complete the building.

Omicron Nu — Its Founding and Progress

● **THE ONLY** national fraternity ever founded at Michigan State college is Omicron Nu, the home economics honorary. Its twenty-eight chapters are located in most of the larger home economics departments in colleges in the United States.

Organized in 1912 on the same basis as Phi Beta Kappa and Sigma Xi, well known liberal arts and science honoraries, Omicron Nu confers membership on junior and senior home economics students who have attained very high rank scholastically. In addition to the scholastic standards, executive ability and promise of future achievement are considered when Omicron Nu sends out bids. The fraternity was founded for the purpose of promoting home economics ideals and scholarship among the students.

Members of the home economics staff under the direction of Dean Maude Gilchrist organized Omicron Nu. Mrs. C. M. Cade (Agnes Hunt, home economics teacher) was especially active in its formation. That 1912, when the organization of Omicron Nu took place, was "way back when" compared to 1935 at Michigan State college is evidenced by the fact that one of the charter members was a teacher of music, Miss Louise Freyhofer. Strange as it seems now, home economics was then the only course for women in the College, and music came under home economics.

● **AS PIONEERS** in the organization of a Greek letter fraternity on this campus the founders of Omicron Nu encountered obstacles both serious and humorous. One of the most perplexing problems was to find a name for the society. Dr. T. C. Blaisdell, professor of English and modern languages, was the only man in the college who knew Greek. Hence he was given the honor of naming the fraternity. After weeks of pouring over his Greek literature to find words which bore relation to home economics, Dr. Blaisdell finally suggested Omicron Nu.

The Omicron Nu key, in two shades of gold, was designed in the drawing department of Michigan State college. Hence the whole idea, the organization, the name, and the key of Omicron Nu, is a product of this college.

Alpha chapter of Omicron Nu at Michigan State college received the first application for a charter from Purdue university, but due to a delay in the action of college officials, a charter was granted first to the New York State College for Teachers, which became the Beta chapter. Other chapters of Omicron Nu were established within

the next few years, and a national organization of college and alumnae chapters was built up. Mrs. C. M. Cade, one of the founders of Omicron Nu, is now national editor for the fraternity, and the magazine, Omicron Nu, is printed in East Lansing. The national organization holds a convention every other year in connection with the convention of the American Home Economics association. This year the meeting will be in Chicago in June.

● **AT** Michigan State college Omicron Nu presents every year to the sophomore student of home economics with the best record in scholarship and leadership a cup, given the fraternity for this purpose by Mrs. J. L. Snyder, wife of former President Snyder. The fraternity also entertains honor freshmen in the spring, and holds one open meeting a term to introduce faculty and outside speakers to the student body.

The national organization of Omicron Nu is now sponsoring, in conjunction with the American Home Economics association, a study of the effect of the depression on 500 families of Omicron Nu alumnae. Studies of these families were made five years ago, and a repeat study is being made at the present time. One hundred families living all over the United States have been actually visited in the course of this study, and six or seven of the families studied live in Lansing. The National Child Study Institute at the University of Minnesota, which is directing the study, will publish the results this spring.

● **OMICRON NU** has other national projects. In conjunction with the American Home Economics association it gives fellowships for research in home economics; one for work in consumer education, and another for study in connection with the Tennessee Valley project of the United States government.

Charter members of Omicron Nu at Michigan State college were: Mrs. Thomas Gunson (Lutie Robinson, '12); Mrs. Vera Bates Coffeen, '12; Mrs. F. E. Fogle (Josephine Hart, '12); Mrs. Durward Fisher (Alida Dearborn, '12); Grace E. Stevens; Mrs. Lillian L. Peppard, '10; Mrs. R. F. Valteau (Verna S. Allen, '12); Mrs. Laver (Hazel Berg); Mrs. W. C. Geagley (Bessie Gertrude Howe, '12); Mrs. T. E. Nehil (Lillian Muellenbach, '12); Mrs. M. M. Babcock (Fernelle M. Allen, '12); Mrs. Crossman Pratt (Philena Smith, '12); Mrs. R. P. Lundberg (Helen M. Sheldon, '12); Mrs. J. W. Knecht (Helen Louise Norton, '12); Miss Louise Freyhofer, and Dean Maude Gilchrist.

Burr Wheeler, '03 Eng., Manages the World's Largest Copper Deposit, Chuquicamata, Chile

The Record Carries on
a Long-Distance
Interview



Burr Wheeler, '03

● APPROXIMATELY one hundred and sixty miles inland northeast of the port of Antofagasta, Chili, lies the world's largest copper deposits. The Chuquicamata ore deposits were first commercially tapped by the Chili Exploration company in 1913 when the first unit of the present plant was begun. Burr Wheeler, graduate of the engineering school at Michigan State college in 1903, is general manager of the company having started in that capacity fourteen years ago.

The property is not tropical as some people suppose but the climate is delightful all the year around because of the altitude, which is 9,000 feet above sea level. The Chili Exploration company is the operating company under what is commonly known on the stock exchange as "Chili Copper." The Chuquicamata field is the largest single deposit of copper in the world today—about 700,000,000 tons of ore with the average content of 42 pounds per ton.

In recent communications with Mr. Wheeler, he writes that many interesting things are to be seen at the location. The most striking feature of the country around the mine is the almost complete absence of rain and snow and the entire lack of vegetation. A great deal of comforts had to be provided for the workers. There are about 175 American citizens and about 25 British on the payrolls and of these perhaps fifty have their families with them. The clubhouse at the mine compares favorably in size and equipment with anything of the kind in a town of 10,000 population. It has excellent accommodations for lounging, dramatics, dancing, swimming, and all kinds of indoor athletics. Golf is played under some handicaps, but nevertheless is played. Fairways are made of packed oiled sand to keep it from blowing away. Some find the fairways much harder to negotiate than grass. The greens are of a much better composition consisting of a sub-grade of stone overlain with a thick layer of sand mixed with oil that hardens.

● WHEN ASKED about the climate, Wheeler stated, that it is very healthful. The elevation of Chuquicamata being 9,000 feet above sea level the range of temperature is so slight that it is neither very cold in the winter or warm in the summer. Diseases are not prevalent; typhoid is infrequent perhaps as a result of the excellent water supply from the mountains close at hand. The company has extensively irrigated truck farms of its own at Antofagasta where a large variety of fresh vegetables are grown for the use of the employees. The company also operates its own abattoir and refrigeration plants. The beef cattle are herded across the Andes on the hoof. These animals are shod because the travelling is hard and at the end of the trip the shoes are worn almost completely away.

One of the important phases of mine operation anywhere is the availability and competence of the workmen. At the workings of the Exploration company there are 6,000 Chileans on the payroll a large portion of which have permanent homes near the plants. Most of these homes are built and owned by the company. The Chileans average very high as workmen; they make excellent

mechanics and are particularly skillful in operating machinery. Formerly, there were Americans operating the machinery and working as engineers on the shovels and locomotives, but now all the work is entrusted with the Chileans.

There are public schools for the Chilean children which include the instruction in manual training, athletics and personal hygiene. One of the requirements is that the hair must be cut at appropriate intervals. A steam-heated hospital complete with modern equipment and 125 beds and a separate maternity hospital are among the service features at the company camp.

The contract and bonus system is used for the manner of payment. The average earnings of the Chileans are in the neighborhood of 13 pesos or the equivalent of \$1.50 a day in American money. Company stores are operated for the benefit of the workers in order to make their earnings go as far as possible.

● IN TOUCHING the innermost part of the workings of the mine proper we find that the work is done by means of twenty-one electrically operated steam shovels, the largest of which handles eight cubic yards of ore at a load. The ore is loosened from the pits with the use of heavy blasts which are placed by means of churn-drills. It is delivered to the blasts by means of elaborate conveyor belts. The reduction plant has a capacity of 55,000 tons of crude ore per day. From this plant the unfinished product is placed in reinforced concrete, mastic-lined leaching vats which holds 11,000 tons of ore. In this step of the manufacture the copper is extracted from the compound. The metal is collected around 150 pound cathodes and sent to the refining furnaces where it is made ready for shipment to the coast and export markets of Europe and America.

As was mentioned, the entire equipment is operated by electricity. The power is furnished by a plant at Tocopilla, 90 miles distant. Crude oil is used, coming for the most part from the oil fields of California. The power is generated through the operation of five turbo-generator units.

The Engineering and Mining Journal, published in this country, devotes many pages at various times describing the policies and activities of the Chili Exploration company, which is considered one of the most efficient complete copper mining in the world. The Guggenheim interests of which Burr Wheeler is general manager in Chili, had their control transferred to the Anaconda but the action affected no disruption in the staff.

The present operating extent of the company is about one-fourth due to the low price of copper which sells around six cents per pound. Copper mining as everyone knows at the present time has received many setbacks due to the price slump. Decreased production in all lines of metal manufacturing has hit the copper producers. Operating on small capacities, companies are still unable to sell the entire output. The Chuquicamata outfit, still the largest in the world, is rated as the lowest cost producers in the world.

(Continued on Page 9)

Cleveland Club Holds Annual

● WORD comes from the Cleveland M. S. C. Alumni club secretary, Mrs. Amy Gumm Pearsol, '17, that the group down there held their annual dinner meeting at the Sovereign hotel, 1575 East boulevard, Saturday evening, March 2. More than twenty-five people enjoyed the dinner and the meeting which followed under the direction of Floyd H. Valentine, '09, president. A letter of greeting was read from General Secretary Glen Stewart of the College, and P. O. Fleming, husband of Dorothy Kahres Fleming, '19, gave a very interesting talk on their recent trip through Germany. Plans were formulated to hold a summer picnic when Secretary Stewart could visit the club and to invite all graduates and former students of Northern Ohio to attend. Officers elected for the following year were: George Francisco, '02, president; Lou Appleyard, '00, vice-president; Amy Gumm Pearsol, '17, secretary, and Dorothy Kahres Fleming, '19, treasurer. At the close of the meeting the following resolution was adopted and forwarded to the RECORD.



"Whereas, the passing of Dr. Frank S. Kedzie is a real loss to the College and its alumni,

"Be it resolved, that the members of the Cleveland Michigan State college alumni association, at their annual meeting assembled, do hereby express their sorrow on the death of their friend and instructor, Dr. Frank S. Kedzie. He was beloved by all the alumni and each one remembered some kindness he had shown them. He will be greatly missed."

Washington, D. C., Meeting April 3

● The M. S. C. Alumni club of Washington, D. C., will be one of more than 30 college groups to meet in the Nation's capital on Wednesday evening, April 3. Word from D. F. Fisher, '12, president of the Washington Club, states that the annual meeting of that group will be held at the Highland, Connecticut avenue and California street, with dinner starting at 7:00 p. m. Glen O. Stewart, alumni secretary, will be the guest speaker from the College.

The changing of dates from February to April was planned by the officers of the Washington Club to meet the convenience of Secretary Stewart, who as secretary of the American Alumni Council, will be in the city from April 3 to 6 to attend the national meeting of alumni secretaries. All college and university alumni groups holding meetings simultaneously will tune in on a special radio program being planned for the evening of April 3 by the American Alumni Council. The speakers will be announced through the Washington press.

Indiana Alumni Meet at Lafayette

● MORE than sixty alumni drove from Indiana cities to the Purdue Union in Lafayette to attend the second annual state-wide meeting. After a business meeting held at four o'clock in the afternoon, the group was served a dinner in the Union. After dinner the president of the club, Dr. R. C. Fisher, '95, called upon President R. S. Shaw, who addressed the alumni, telling them of College problems and progress. Daniel DenUyl, '22, assisted Dr. Fisher in making plans for the meeting.

The Kedzie Epic of M. S. C.

● THE ABIDING influence of the Kedzie spirit in the affairs and fate of our Alma Mater has been emphasized by the loving tributes paid to the memory of dear "Uncle Frank." The inspiring lives and devoted labors of Dr. Robert C. Kedzie and Dr. Frank S. Kedzie, connected as they were by continuous service for so long, have been cemented into a sort of epic of the progress of the College from the beginning.

But there were two other worthy members of the remarkable Kedzie family, sons of Robert C. and brothers of Frank S., who were intimately connected with the early College life, two very bright and really brilliant boys whose brief but most promising careers were cut short by untimely death.

William F. Kedzie, of the class of 1870, and Robert F. Kedzie, of the class of 1871, are remembered with deep affection and respect by the older Patriarchs of the alumni body.

● BOTH of these brilliant young men remained long enough at the College to impress their attractive qualities on the early institution and on the student life of their time. Both chose chemistry, especially as applied to agriculture, as their calling, both pursued their studies at eastern institutions or abroad, and both did original work of great value in experimental chemistry with soils, crops, foods and other products, with results made useful by their father in his work for sugar beets and by the College later in experiments with grain and seeds.

Both these young men received appointments to professorships in chemistry at important institutions, Will Kedzie at the Agricultural College of Kansas and Robert at the Agricultural and Mechanical Institute of Mississippi. Both embarked upon successful and promising careers. Both were happily married and both became useful, popular, and beloved in their respective fields of life. But by inscrutable and untimely fate both these anxious and uplifting souls were called away at about the same age of thirty years. But few lives make such records in such short time.

It is hard to sift from the bewildering mazes of circumstances and time the tangled webs of impulse that come down from earlier days. Yet I doubt not that some seeds of aspiration may have been sown by these choice characters in the early and inspiring traditions of M. S. C.

—Contributed by HENRY A. HAIGH, '74.

Detroit Grads Bury Depression

● DETROIT alumni proved that "old man depression" had left the motor city when on February 15 more than two hundred grads, members of classes as old as '70 and as new as '34, gathered in the Intercollegiate Club in the Penobscot building to honor President and Mrs. R. S. Shaw and Coach and Mrs. Charles A. Bachman. The occasion was a formal dinner-dance, the first held by the Detroit Michigan State club in several years. B. F. Beach, '15, acted as toastmaster and introduced as guest speakers from the College, President Shaw, Coach Bachman and Alumni Secretary Stewart. After the speeches, younger alumni stayed to dance to the tunes of an orchestra from the Statler hotel until the small hours of the morning. The Detroit Club's president, Walter G. Knickerbocker, '16, selected John H. Kenyon, '14, to act as general chairman for the affair. Kenyon was assisted by several capable committees.

Nominating Committee Presents Slates for Spring Election

● IN LINE with the constitution and by-laws of the Association, adopted last June, President Schneider appointed a nominating committee of three from the list of past presidents who were asked to make their report in time for publication in the current issue of the magazine.

The committee was composed of Dr. L. T. Clark, '04, Detroit, Ellis Ranney, '00, Greenville, and R. Bruce McPherson, '90, of Howell. Chairman Clark writes that after careful investigation of the present members of the executive committee and investigation of possible nominees for new posts the two slates are presented. The committee reports that it believes Mr. Schneider should be returned as president for another year because of his untiring efforts to see the Association through the present crisis. His name, therefore, appears on both slates.

● BEFORE MAY 1 ballots will be mailed to all members of the Association in good standing and up to ten days before that date it will be possible for any group of twenty active members to add names to the ballot. Otherwise the only names appearing will be those listed above. Members in good standing are those who have made payment of membership dues of \$2.50 for the year 1934-35, ending June 30.

SLATE NO. 1

President—C. Fred Schneider, '85
Grand Rapids (Present Incumbent)
First Vice President—Clyde Allen, '23
Dansville (Present Incumbent)
Second Vice President—Hans Keydel, '20
Detroit
Treasurer—Harold Plumb, '21
Jackson (Present Incumbent)
Director—3 year term—John A. Hannah, '23
East Lansing (Present Incumbent)
Representative Alumnae League—Mrs. Helen Erickson, '23
Lansing (Present President)

SLATE NO. 2

President—C. Fred Schneider, '85
Grand Rapids (Present Incumbent)
First Vice President—Arthur Knoblauch, '29
Buchanan
Second Vice President—Otto Hess, '16
Grand Rapids
Treasurer—Merle J. Weaver, '26
St. Clair
Director, 3 year term—James Buchanan, '27
Flint
Representative Alumnae League—Mrs. Helen Erickson, '23
Lansing (Present President)

Choose Your Candidate Wisely

C. FRED SCHNEIDER, '85, of Grand Rapids, Michigan, is the present president of the Association. He was connected with the U. S. Weather Bureau for many years, leaving the bureau to enter the banking business in Grand Rapids. At present he is operating a general receivership business in that city.

CLYDE ALLEN, '23, candidate for first vice president, is superintendent of schools in Dansville, Michigan. Allen has served as vice president during the past year.

The other candidate for first vice president is ARTHUR KNOBLAUCH, '29, principal of schools at Buchanan, Michigan. Knoblauch has been president of the Berrien county alumni club this year. He is also president of the Berrien County Teachers' association.

HANS KEYDEL, '20, candidate on slate No. 1 for the office of second vice-president, is president of the Household Paper Products company in Detroit. He is a past president of the Detroit Alumni club and Michigan State College's representative on the board of directors of the Detroit Intercollegiate Alumni club.

OTTO HESS, '16, is engineer-manager of the Kent County Road commission and president of the Grand Rapids Alumni club. He will oppose Keydel for the office of second vice-president.

HAROLD PLUMB, '21, who will in June complete a one-year term as treasurer of the Association, is an engineer with the Consumers Power company in Jackson.

MERLE J. WEAVER, '26, who will oppose Plumb in the race for treasurer, lives in St. Clair, Michigan, where he is principal of the St. Clair High School.

JOHN A. HANNAH, '23, who has served the Association on its board of directors for the past three years and is again a candidate for the office, is the new secretary of the College. Hannah of course lives in East Lansing.

Opposing Hannah for the position on the board of directors will be JAMES BUCHANAN, '27, of Flint, Michigan. Buchanan is a metallurgist for the Chevrolet Motor company and a past-president of the Flint Alumni club.

Nominated on both tickets is MRS. HELEN ERICKSON, '23, now serving as president of the Alumnae League.

MANAGES WORLD'S LARGEST COPPER DEPOSIT

(Continued from Page 7)

● BURR WHEELER entered Michigan Agricultural college with the class of 1903 as an engineer. While attending the institution he acted as manager of the college football team during his junior year. He was also active in the military departments, holding the rank of Captain of Company "C." During the seasons of 1900-01-02 he gained a place on the college tennis team, earning his letter in that sport. He was also president of the Hesperian society of which he was an active member.

Leaving the College in June, 1903, Wheeler became connected with the Westinghouse, Church and Kerr company, acting as foreman of electrical construction until 1907. In 1907 he became chief electrician of an eastern railroad company having charge of a large power station. He remained there until 1909, then taking a position as assistant engineer in the electrical department of the Connecticut Power company at New Haven, Conn. Thereafter he returned to the Westinghouse, Church and Kerr company, where he was connected at the time of transfer to the Chilean copper field.

Wheeler returned to the Campus in June, 1933, during the class reunions to visit with old friends and classmates. He stated that he held no resentment of having to go back so far away from the United States in that conditions were such that nothing was lacking except familiar friends. He is one of the many grads who have travelled far and located at distant points to make their place in the world.



No line when the doors open on the first day of pre-registration, a small line on the second day, a long one on the third day, and one which extends from the ballroom down into the Union lobby and winds around the pillars of that room on the fourth day, is the way students treat that important part of College term. Seniors come the first day, and seniors will not get up at eight o'clock to go to class, to pre-register, or to eat. Juniors come on the second day and a few of them can be pried out to be ready when the doors open. More sophomores are interested in being the first of their group to classify, and when the final day arrives, freshmen with their minds full of closed sections, eight o'clocks, Saturday classes, and tough instructors, think that getting up at five or six in the morning is well paid for if they can escape but one of the terrors which greet late registrants.

International Relations club held a most unusual dinner meeting in the Union on February 20. Members came garbed in the costumes of every leading nation of the world, music was cosmopolitan in nature, and informal toasts were presented by representatives of the various nations. The address of the evening was given by Prof. E. H. Ryder who had as his subject "From Calcutta to Bombay."

The last of the roasters in which students aired their pet gripes and faculty members answered them found a majority of students of the opinion that the roasters had made an important contribution to the social program, but also of the opinion that while an axe in the form of a grade to be given remained over the head of the students, they might not say all they felt like in the presence of faculty members.

Arthur Pillsbury, prominent nature expert, together with his moving pictures of many of Nature's secrets, appeared on March 7 as the final lecturer of the term on the Liberal Arts course. Pillsbury was heard by many students who proclaimed his lecture to be one of the most interesting ever heard on the Campus.

As a memento of the year's biggest social event, the State News staff early this month, published a tabloid size newspaper which was distributed at the J-Hop. Pictures taken at the start of the Hop were quickly developed and made into cuts, copy was hastily written, and the paper was available to "Hoppers" before the close of the party.

Named as chairman of the senior water carnival was Paul Kindig of Elkhart, Indiana, a student in the business administration course. The carnival will again be held in connection with the commencement week program.

"CLOSE BESIDE WIND"

An interesting sidelight of the military ball took place when twelve second-year soldiers who were checking coats and wraps for cadet officers failed to use military precision in placing the wearing apparel on the checking racks in Lansing's Masonic temple. Confusion reigned when late leavers—approximately ninety per cent of those attending were late leavers—tried to get their checks traded for coats. Co-eds had but a few minutes to cover the three miles to their sorority house and dormitory rooms before "late minutes" would be chalked up against them. The cadets, remembering they were officers and perhaps forgetting they were gentlemen, charged the hapless underclassmen, each trying to find his coat in the mass of more than four hundred garments. Finally after a great deal of skirmishing, retreat was blown—and each soldier retired with a coat—either his own or one belonging to someone else.

After serving as acting dean of Liberal Arts since last September, Prof. L. C. Emmons was named full dean at the February meeting of the State Board of Agriculture. E. H. Ryder, the only man who had occupied the position since the organization of the division in 1925, after a leave of absence of three months spent in study in New York City, will continue as professor and head of the department of history and political science.

For selecting names for the various rooms in the Union, some enterprising State student will receive a prize donated by the Union Board. While there is no Rathskellar to be named, as at Wisconsin, it is hoped that appropriate names will be selected for the ballroom, lobby, and other rooms which are so far completed as to be usable.

R. O. T. C. riflemen proved to be the best shots in the Sixth Corps Area and earned the right to enter the national contest. Meets are carried on by telegraph and nearly every Land Grant college in the country has a team.



DE THE ING CEDAR"

The Unhappy Warrior of Battle Creek was what Cornelius Vanderbilt jr. called himself when he appeared on the platform of the Peoples church as a speaker on the Liberal Arts course. Vanderbilt, who had been embroiled in an argument with Battle Creek school authorities over the use of political material in a lecture there, entertained a large audience with stories of his encounters with celebrities of many lands.

John Manning, a senior engineering student from Grand Rapids, was very seriously injured on February 14 when a car in which he was riding collided with a taxi near the city limits of Lansing—right by the place the old split rock used to be. Manning's condition was critical for some time, but he is now well on the road to recovery.

The annual all-ag banquet, held this year in the Union on February 18, had as its main speaker A. G. Phillips, president of the Allied Mills. Medals and cups were awarded ag students who during the past year have made impressive records in scholarship or extra-curricular activities. Entertainment was provided by students of the division—making it truly an all-ag banquet.

Hotel Training students have banded together in an organization known as the Michigan State College Hotel association. Its object is to unite the students in that course more closely and to provide a place for the discussion of problems common to hotel workers. The hotel course has become very popular since its inception at the College—Michigan State being one of two approved American colleges to offer such a course.

Commencement this year for those of you who make your plans early, will take place on Monday, June 10. This, of course, will make Alumni Day come on June 8. Plans are already under way for the annual Patriarchs' dinner and for the class reunions of 1930, 1925, 1920, 1915, 1910, 1905, 1900, 1895, and 1890.

Following an inspection period by the National Association of Schools of Music, the music department of the College was admitted to membership in the association. Especially honored was the College by not being compelled to undergo the period of probation customarily demanded by the association.

A new dormitory for women is being planned by the State Board of Agriculture. A PWA loan is being sought to cover the cost of the building, which, if built, will occupy the ground west of the College hospital, and will be similar to Mary Mayo hall. The Woman's building will be rebuilt into a classroom and office building, according to present plans.

Four men were named by Debate Coach J. D. Menchhofer to make a trip through the east during which twelve eastern colleges and universities will be met. The subject discussed will be whether manufacture of armaments should be governmentally or privately controlled.

Ending the social season as far as the large formal parties are concerned were the Senior Ball on March 1 and the Sophomore Prom on March 8. Following the lead of other parties this year, they were held in the Lansing Masonic temple with nationally known orchestras playing. Large crowds attended both parties despite false rumors of pick-up bands and absent headliners.

Artur Schnabel, famous pianist, and once a member of a trio which included Alexander Schuster of the College music department and which made an extended tour of Europe, appeared before a not too large audience in the gymnasium on February 18.

Furrowed brows and vacant stares meet the visitor on the Campus. He wonders if Michigan State is really the "friendliest college in the mid-west." If he inquires, he finds that students do not always appear so worried and so forlorn; he learns that he is in the midst of the cram period which precedes the end of each term. He finds that lights are on until a late hour in dormitories and fraternity houses not because of a party but because a complete knowledge of "Modern Economic Society" must be gained in a few hours, that the book of several hundred pages which tells all must be read or the course flunked. The J-Hop, Military Ball, and fraternity dinner-dance are being forsaken for Europe Since 1870 or thermodynamics. He is told that in a short time all will be changed, frowns will be replaced by grins, eyes will shine brightly, and a cheery hello will greet the passerby—for spring term, best part of the school year, will be with us again.—G. A. C.





ROBERT HERRICK,
JACKSON
Guard



MILO ROUSE,
BOYNE CITY
Guard



ARNOLD VAN FASSEN,
HOLLAND
Center

TRIUMVIRATE OF SEN-
IORS CHOSEN CO-
CAPTAINS OF SUCCESS-
FUL 1935 BASKETBALL
MACHINE.

● FIVE THOUSAND loyal Spartan fans were on hand to witness the greatest team ever coached by Ben Van Alstyne when the State cagers electrified the country by defeating the strong University of Kentucky five on February 13 by the score of 32-26. Kentucky, rated by basketball experts the country over as the most perfect court five, came here with the record of one defeat in sixteen starts and that at the hands of New York university, 23-22.

The defeat of Kentucky continued the string of consecutive State victories to ten, beside rating them with the best basketball teams in the country. Every minute of the game was packed with thrills and the vast throng present repeatedly paid tribute to the fast-moving Spartans who had carried themselves through a record season.

● LeROY EDWARDS, six foot four inch "Kaintuck" center, lived up to his name as the best pivot man in basketball this year and was a constant menace to State's chances for victory. Arn VanFaasen, State center, succeeded in playing a fine game against this All-American and managed to get his share of the points through Edwards. First scoring by either side were foul shots by Tucker of Kentucky and Herrick for State tying the score at one all. Mike Rouse, Boyne City guard, put the Green and White out in front a few seconds later with a beautiful floor shot. During the entire time of the first half the score seesawed back and forth with each team scoring by sensational shots from the center of the floor. As the half ended, Herrick arched a shot into the basket to put State into the lead 16-14.

The game kept that small margin during the second half until with four minutes left to play the score read 26-26. At this time the Spartans came into fame, got control of the ball and Spence Rogers, Amsterdam, New York flash, cut loose with a beautifully executed shot and once again put the Green and White out in front. Scoring

SUCCESSFUL BASKETBALL SEASON CLOSES

Win 14 — Lose 4

twice by this method and aided by two perfect foul shots by Garlock, the Spartans emerged victorious 32-26 to hand the "Old Kaintucks" their second defeat of the season.

Bob Herrick, Jackson guard, led the scoring for State with a total of 12 points and "Baby" LeRoy Edwards for the visitors with an individual score of 16 points. This marked the last home game for Arn VanFaasen, Mike Rouse and Bob Herrick, Spartan seniors.

● JOURNEYING to Milwaukee, Wisconsin, on February 18 to meet the strong Marquette university quintet for the second time this season, the State cagers cracked up to just miss winning their eleventh consecutive game when Marquette forged to the front in the final minutes of play to win 20-17.

State started the game fast with baskets by Herrick, Garlock and Reck and a free shot by VanFaasen to put them in front by a score of 7-1. The Hilltoppers kept in the game the first half merely by means of their accurate free throws. The half ended with State in the lead 10-8. Early in the second frame, Marquette took the lead which they never lost, by baskets of Rubado, Ehrig and Seeger and a free throw by their captain, Morstadt. The Spartans rallied furiously during the last few minutes of play but scored only on free tosses. VanFaasen's brace of foul shots marked the final scoring of the game with the Spartan quintet on the short end of the score 20-17.

● NOT ONLY was the season a successful one in the point of view of the scores but also the wealth of material uncovered by VanAlstyne for next year's use. In the persons of Ronald Garlock, Lansing, Spence Rogers, Joseph Smith, Amsterdam, New York, and Curtis White, East Lansing, Coach VanAlstyne has a good foundation for next year's quintet. These men replaced the regulars in many games and carried on the work and scoring as veterans. These men are sophomores this year and have two more full seasons ahead of them as State cagers.

The scores for the season are as follows:

M. S. C.	43	Central State Teachers	14
M. S. C.	30	Kalamazoo College	25
M. S. C.	25	University of Michigan	31
M. S. C.	26	Northwestern University	39
M. S. C.	26	Loyola University	19
M. S. C.	25	Stanford University	18
M. S. C.	21	University of Wisconsin	23
M. S. C.	31	Wayne University	17
M. S. C.	31	Michigan State Normal	17
M. S. C.	34	Western Reserve	33
M. S. C.	30	Marquette University	29
M. S. C.	45	Hillsdale College	24
M. S. C.	53	Michigan State Normal	28
M. S. C.	37	Wayne University	20
M. S. C.	36	Western Reserve	20
M. S. C.	30	University of Michigan	28
M. S. C.	32	University of Kentucky	26
M. S. C.	17	Marquette University	20
M. S. C. Total	572	Opponents Total	431

Swimming — Wrestling

● COACH R. B. DAUBERT traveled with his swimming team to Grinnell college and Iowa State university on February 18 and 19. Winning from Grinnell by the score of 54-30 and breaking records in five events they continued to Iowa where they were beaten in a family affair by a team coached by Coach Daubert's father and officiated by his brother Clarence, with the same score as the evening before 54-30, reversed. On the following week-end State came home to defeat the Butler university team 62-24, but lost to Loyola university, of Chicago, by the score of 45-41.

Wrestling, the sport gaining in popularity on the Campus for the past few seasons, has furnished mat enthusiasts with some interesting meets during this term. On Saturday, March 2, the Spartan matmen handed Detroit Tech their third defeat of the season by the compiled score of 28-8, State winning every match but two. On February 23, Coach Fendley Collins' men met the strong champs of the Big Ten, the Indiana university wrestling team. They shoved the Green and White grapplers into the cellar with a victory of 22-10. Indiana took all but two classes and these were won by Walter Jacobs in the 145 pound class and Joe McDevitt in the 165 pound class. Gordon Reavely, Durand champ for the Spartans in the heavyweight class, was successful in every fight he entered except the one against Indiana. Reports have it that Reavely is contemplating entering professional wrestling upon completing his college work.

Baseball

● WITH a touch of spring in the air from time to time, Coach John Kobs, power behind the smooth working State baseball nines, continues to whip his candidates into shape for the spring training trip which will again take place during the spring vacation. This season's schedule is rated to be one of the toughest ever attempted by the Kobsmen and much reliance is placed on the many sophomore candidates that have reported for practice this season.

Captain Art Rouse, Boyne City, brother of the basketball star, and Irving "Buzz" Bartling, Flint, are the two veterans around which the team is being worked. Among the sophomore candidates are Pete Weimer and Steve Sebo, Battle Creek, and Milton Lehnhardt, Detroit, Cortland Cromwell, Birmingham, and Joe Smith, Amsterdam, New York.

The schedule including the southern spring training trip for this season is as follows:

March 25—Clemson college, Clemson, South Carolina.
March 26—Furman college, Greenville, South Carolina.
March 27—Newberry college, Newberry, South Carolina.
March 28—University of South Carolina, Columbia, South Carolina.
March 29—Davidson college, Davidson, North Carolina.

HOME SCHEDULE

April 13—Hillsdale college, here.
April 20—Northwestern, here.
April 25-26—Wisconsin, here.
May 4—Western State Teachers, here.
May 11—Michigan State Normal, here.
May 16—Hillsdale college or Bowling Green Normal, there (tentative).
May 17-18—Ohio State, at Columbus.
May 21—Michigan Normal, at Ypsilanti.
May 23—Notre Dame, here.
May 25—Western State, at Kalamazoo.
May 27—University of Michigan, at Ann Arbor.
May 30—University of Michigan, here.
June 1—Notre Dame, at South Bend.
June 7-8—University of Iowa, here.
(Saturday, June 8, Alumni day game)

Indoor Track

● WITH the completion of basketball season the athletic fans of the College turned to the minor sports, swimming, wrestling and track for their interest during the closing part of the winter term at the College.

Several members of the Spartan track team placed in the Michigan A. A. U. track carnival held in Ann Arbor on February 9 in the mile and freshman relay. Captain

Wesley Hurd, consistent fast stepper for the Green and White turned in the best time at the meet for the mile winning over the field with the time of 4:27. The Spartans dominated this field with Nelson Gardner taking second and Kenneth Waite, a State frosher, in third place.

On February 16, the College was host to a group of Michigan colleges at the indoor track carnival. Individual honors were captured by State in the 40 yard dash, 300 yard dash, pole vault and two mile run. State's freshman track team opened up on March 2 and defeated Wayne university trackmen by the score of 73-29. Russell Bath, Detroit, set a new record for freshmen for the 880 yard run with the time of 2:07.7.



CLAUD R. ERICKSON

Erickson Heads Engineers' Society

● CLAUD R. ERICKSON, '22, was elected president of the Michigan Engineering society at the 55th annual meeting of the society at the Hotel Statler in Detroit, February 23. Mr. Erickson is mechanical engineer for the Lansing Board of Water and Electric Light Commissioners. At the same meeting Otto S. Hess, '16, engineer for the Kent County Road commission and president of the M. S. C. Alumni club of Grand Rapids, was named secretary of the society for the coming year. During the two-day session Professor L. S. Foltz, of the electrical engineering department of the College, discussed "Contributions of Engineering Training in Politics."

Alumnae League Plans Benefit

● THE ANNUAL bridge benefit sponsored by the Alumnae league will be held at the Union Saturday, April 6, starting at 1:00 p. m. The benefit this year will be a dessert bridge and one of the outstanding features of the day will be the novel style show being arranged by a prominent Lansing merchant. Last year 120 tables were in play during the afternoon but because of the demand for tickets the party will be increased to 140 tables this year. General chairman for the benefit is Miss Mabel C. Mosher, '08, and Mrs. Helen Erickson, '23, is directing ticket sales. Proceeds of the venture will be added to the Alumnae League Scholarship fund handled under the direction of the State Board of Agriculture.

Where They
Are Located

ALUMNI AFFAIRS

What They
Are Doing

PATRIARCHS

Rodney S. Abbot, '84, in a recent letter to William Caldwell, '76, writes: "I received both the college paper and the pictures you sent me, and I appreciate very much receiving them both. Charles Garfield's death comes to me as a direct personal loss; I had known him as far back as I can remember. I remember his marriage to Alice Rockwell. Edith, the youngest of the three sisters, was my sister's playmate. My sister's family is now all gone. Margaret, her daughter, died in 1932, and Mr. Moore last summer. The row of elm trees look as if they were in fine condition. Perhaps you have forgotten but my inquiry about them was because my father was a great lover of the elm, wanted this row planted and Dr. Beal objected for he claimed they would grow irregular, some would be stunted, some would die, and as a whole they would not be a thing of beauty. From the picture it looks as if the good doctor has lost his bet."

1885

GOLDEN ANNIVERSARY REUNION

Alumni Day, June 8

From far and near will come the members of your class for their fiftieth reunion this June. Why don't you plan to come back and be inducted into the famous Patriarch's club? The time is June 8, 1935; the place, Michigan State College campus. What is it? The Golden Anniversary of the '85ers. Start planning, it's not too early. Be here and meet your friends and classmates from way back.

1890

FORTY-FIFTH ANNIVERSARY REUNION

Alumni Day, June 8

Forty-five years out and wouldn't it be great if you could all show up for the Alumni Day, June 8. Stop to think! It isn't impossible and think of the good times you would have greeting your classmates after all these years. Why not make June 8 a red letter day on your calendar and plan on coming back for the biggest reunion ever held by the class of '90.

1895

M. G. Kains, Secretary
Suffern, N. Y.

FORTIETH ANNIVERSARY REUNION

Alumni Day, June 8

Will we be seeing you here for the class reunion on June 8? That's the spirit! If you will consider what a

TO FRANK S. KEDZIE

All nature in stillness listens! listens
To vesper voices of nightingales' call;
Over the Cedar's face no ripples glisten,
Deep throbbing from far-off echoes fall.

'Tis the vesper-forest hour. No bells;
My heart beats softly-lost, midst shadows;
Midst memory of a past that tells,
How a kindly friend fought life's battles.

And cheered all the way, kindest deeds and
smiles,
In that holiest hour, when friendship goes
abroad.

—J. E. Taylor of '76.

pleasure it will be for both you and your classmates to get together again and "hash" over the school days you that it is the proper plan to make. It's none too early to make your plans for your fortieth reunion, do it now!

1900

Bertha Malone, Secretary

81 Waverly Ave., Highland Park, Mich.

THIRTY-FIFTH ANNIVERSARY REUNION

Alumni Day, June 8

How many times have you wanted to know the answers to questions concerning members of your graduating class? Make your plans now for Alumni Day on June 8 and come back to renew acquaintances and get those answers you were looking for. June isn't so far away so why not put a ring around the date so you won't



The latest brain child of M. G. Kains, '95, "Five Acres," was born in time to allow the parent ample time to plan a bang-up reunion for the class of '95. Kains' book is called by the publishers "a practical guide to the selection and management of a small farm", and has been favorably reviewed by a large number of critics.

forget. Come on back and join the fun with the rest of your gang!

1905

V. R. Gardner, Secretary

East Lansing, Mich.

THIRTIETH ANNIVERSARY REUNION

Alumni Day, June 8

Wouldn't you like to sit down to luncheon with your classmates of 1905 again? That could be easily taken care of if you would check the date of June 8 and plan to make the trip back to the Campus and meet your fellow graduates. You shouldn't deny yourselves all the privileges of a good time, why not make up your mind today that you will journey back for the class reunion. It's a promise for an extra good time!

1910

Minnie Johnson Starr (Mrs. R. W.), Sec'y
517 Madison Ave., Grand Rapids, Mich.

SILVER ANNIVERSARY REUNION

Alumni Day, June 8

It doesn't seem so long ago that the class of '10 left this institution of higher learning to brave the cold, cold world. But the fact remains that this year will mark the twenty-fifth anniversary of your graduation. Doesn't that suggest something to you? It should. Make your complete plans now to attend the reunion on June 8 for it's going to be a red letter day for anybody's calendar. Further details will appear in later issues but don't let that stop you from planning your trip down here!

1915

Rolan W. Sleight, Secretary
Laingsburg, Mich.

TWENTIETH ANNIVERSARY REUNION

Alumni Day, June 8

When it comes time for graduation at the College it should awaken memories for most of you who have donned the cap and gown in the past. Glance through your old year-book and see those faces that you knew so well in college. That should travel back here to M. S. C. and instill the determination to travel—renew friendships and memories that once you knew so well. There is still plenty of time to make those plans to visit the Campus and some of you can visit your children who are attending school now. Anyway, June 8 is the date!

1918

Willard Coulter, Secretary
1265 Randolph S. E., Grand Rapids, Mich.

John H. Harman is "still with the U. S. Department of Agriculture, as an entomologist in charge of Japanese

beetle and European corn borer quarantines for the state of New Jersey." Harman lives in Trenton at 225 S. Cook avenue . . . Captain Ralph G. Strobe commands 1677 Company CCC Camp, Pigeon River, Vanderbilt, Michigan.

1919

Paul Howell, Secretary

1010 Braman St., Lansing, Mich.

Harry Franson dispenses instruction in the Redford high school in Detroit, in which metropolis he lives at 16801 Chapel . . . C. Fred Steele is a partner in the insurance firm of Green & Steele, 110 W. Chisholm street, Alpena, Michigan . . . "Will be glad to do any of our old friends if they are coming to Battle Creek," writes Red Wood, in the garage business in that city. He and Mrs. Wood (Ruby Clinton, w'18) live at 60 Oaklawn avenue. He continues: "Mrs. Rex P. Bond (Olive Clinton, '22) is now living here in Battle Creek at 87 Howland street. Fred A. Clinton visited us in November. His address is 873 Tower avenue, Hartford, Connecticut. He works with Travelers Insurance company."

1920

P. G. Lundin, Secretary

East Lansing, Mich.

FIFTEENTH ANNIVERSARY REUNION

How many times have you seen the Campus since you graduated? Do you realize how many changes have taken place with both the grounds and buildings? Then, in comparison, think how many changes there could have been with the fellow classmates of yours. Don't you honestly believe that you owe it to yourself to come back for your fifteenth reunion and renew acquaintances? The date, if you haven't remembered is June 8; make a mental note of that and make those plans for a glorious time for a day or two on the old Campus again.

1921

Maurice Rann, Secretary

1509 Osborn Road, Lansing, Mich.

David K. Robinson engineers in the Coast Guard service of the U. S. Treasury department, and resides at 200 Shepherd street, Chevy Chase, Maryland . . . Walter H. Simmons owns the Welding Sales and Engineer company of 1627 W. Fort street, Detroit. He is married and lives at 4351 Courville avenue.

1922

Mrs. Donald Durfee, Secretary

12758 Stoepe Ave., Detroit, Mich.

Mrs. Flucke's son Arthur has a job with the Michigan Bell Telephone company in Saginaw where he lives at 608 S. Park avenue.

1923

Wm. H. Taylor, Secretary

Walled Lake, Mich.

The other partner in the insurance

Detroit's

headquarters for
graduates and
undergraduates

* * * *

Luxurious dining-rooms and lobbies make ideal meeting places for both young and old classmates.

* * * *

Always the home of visiting athletic teams.

* * * *

A popular coffee shop and a beautiful dining room featuring luncheon concerts and dinner dancing.

* * * *

And for those who stay overnite there are most attractive rooms with soft, sleep-inspiring beds at no more than the cost of an ordinary hotel.

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\$2.00 SINGLE
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HOTEL DETROIT-LELAND

MOST CENTRALLY LOCATED AT
CASS AND BAGLEY AVENUES

DETROIT

AMPLE PUBLIC PARKING SPACE

firm of Green & Steele (see '19) is Burnett E. Green who lives in Alpena at 130 W. Lewis street According to the Forestry department, Harold R. Heathman is employed in Indianapolis by the Indiana State Department of Conservation Bill Taylor, good class secretary that he is, comes through with the following: "Fred and Dorothy (Maxson, '25) Henshaw and Dan and Ann report their address as 329 Willard avenue, Friendship Heights, Maryland. Fred is chief of the field information section of the AAA and will be busily engaged in Washington for some time. Hester Bradley reports her usual share of activity at Crystal Falls. As president of the Crystal Falls Teachers' club, vice-president of the Iron County teachers' club, secretary-treasurer of the U. P. Federated teachers' clubs, and secretary of the Crystal Falls college club, Hester has her hands full in what spare time is left from teaching science in the high school. She invites the class up for a grand snow fight" Margaret J. Patterson teaches in the girls vocational school in Detroit where she lives at 2909 Whitney Carl Ripatte superintends Chimney Park camp, a CCC outfit at Laramie, Wyoming.

1924

Roberta Hershey, Secretary

128 S. Pennsylvania, Lansing, Mich.

A. J. Durant is on the veterinary staff at the University of Missouri in Columbia The last clipping that "Uncle Frank" Kedzie sent to the Alumni office was from the Chicago Tribune of December 30 announcing the appointment of Benjamin V. Halstead as corporate trust officer for the Metropolitan Trust company Paul and Lucile (Grover, '23) Hartsuch are living in Chicago at 5625 Blackstone avenue Irene Patterson is listed on the College staff as a supervising teacher in home economics at Eastern high in Lansing, where she lives at 1017 Eureka Mr. Farley's representative at Cleveland, Ohio, says that the Harvey Prescotts have moved in that city to 3300 Norwood road David Stuart field engineers for the Michigan Bell Telephone company in Ann Arbor—address 319 E. Washington street.

1925

Frances Ayres, Secretary

East Lansing, Mich.

TENTH ANNIVERSARY REUNION Alumni Day, June 8

Lots of things can happen in ten years. What are your plans for June 8? What could be more satisfying than to return to the old stamping grounds and meet the old friends? Save your pennies and mark the date down so you can't possibly forget.

Come on back and have the best time you've had in years at the '25-ers tenth reunion.

Ralph G. Aronstam directs the Medical laboratory at 622 Maccabee building, Detroit Leland Dewey is still on active duty with the Army, commanding the 675th company, CCC, at Camp Lunden, Lewiston, Michigan "Still making gas for Consumers Power" writes Seth D. Goodman from 1510 Stockbridge avenue, Kalamazoo Ruth Morse Gray (Mrs. W. L.) gives her address as 616 First street, Alpena, Michigan '25 is well represented in Chicago, with Oscar Gullans at 8748 Indiana avenue, J. B. Martin at 804 E. 81st street, and C. M. Park at 230 East Ohio street The lassies in Midland get their home ek from Grace Mitchell James A. Porter holds forth at the Court House in Ithaca, Michigan Elsworth Thiele is helping to landscape Miami, Florida, where he lives at 3518 N. W. 17th avenue R. E. Warner claims 2980 Pingree, Detroit for his address.

1926

R. H. Riggs, Secretary

East Lansing, Mich.

Don R. and Ruth (Abbott, '24) Haskins recently moved to Knoxville, Tennessee, where they are located at 2730 Magnolia avenue. Don still works for Firestone James S. Keller may be reached in care of 639th company CCC at Glenview, Illinois Lila Koch's a home ek teacher in Grand Rapids, 547 Sheldon avenue S. E. . . . Kenneth Landsburg is employed by the Inter-state Milk Producers association at 219 N. Broad street, Philadelphia. Mrs. Landsburg was Alison Rosenberger, w'35, and they live at 122 Pennsylvania avenue, Prospect Park, Pennsylvania On June 2 Howard Preston will celebrate his first wedding anniversary—she was Harriet Wright of Buffalo, and a Goucher graduate in '32. They are living at 19 Arlington place and Howard continues with the U. S. Engineer's office. He reports that the following are employed in Buffalo: A. J. Hawkins, '30; S. B. Hunt, '29; R. E. MacVay, '30; S. W. Moore, '29; V. H. Donaldson, '30; and Lyell F. Hauger, '33 'Tis reported that "Swartz Creek" Skellenger is located in Manistee, Michigan, where he helps Uncle Sam run the Manistee national forest The "bundle from Heaven" which the George Weners received Christmas morning, has been named Jack Harpster. Jack and his parents live in East Lansing where his daddy is extension specialist and assistant in Farm Crops. . . . Under the supervision of Dorothy Yakeley, the girls of East Intermediate school in Jackson are learning to "sew a fine seam." Dorothy lives in Jackson at 510 S. Jackson street.

1927

Eleanor Rainey Mallender, Secretary

1836 Oak, Birmingham, Mich.

Eleanor Rainey Mallender (Mrs. M. F.) sends her change of address—to 1836 Oak street, Birmingham—with the following note: "The Duane Beurmanns have moved to New York city where he's to be associated with Campbel-Ewald. (Ed. note: They are living at 49 Secor road, Scarsdale.) She was Phoebe Ann Taft, of our class, and he graduated mid-year in '28, I think. He's been with firm of advertisers since graduation and this is a grand promotion, he will be assistant to Mr. Richards, president of this newly organized branch. They have lived in Birmingham for the past three years. They have a two-year-old son, Duane Cline. Also had a Christmas greeting from Helen Klute. She's still in West Virginia at the Ohio Valley General hospital." Mabel Lucas is employed by the Illinois Emergency Relief commission as a caseworker in Chicago, where she lives at 5929 S. Michigan avenue Charles and Dorothy (Giltner, '25) Parrish are living in East Lansing at 317 Evergreen avenue. Chuck works in Lansing in the Liquor Control commission Elias Somerville has come to light down in Temple, Texas, where he is junior soil expert for the Soil Erosion service The Green's boy Stanley engineers for the Underwriters Laboratories in Chicago where he lives at 2521 Winnemac avenue Don and Mary (Batchelor, w'29) Kline have moved in Howell, Michigan, to 316 Maple. Don's still the Smith-Hughes teacher there William H. Schneider crashes through with a good address for himself, 335 E. Ridge street, Marquette, Michigan Commercial Bank building, St. Louis, Michigan, reaches Walter B. Wilkinson.

1928

Karl Davies, Secretary

1507 Corbett, Lansing, Mich.

Arnold Bean is down in Minden, Louisiana, with Uncle Sam's soil erosion service Comes word from the Daileys—Ralph E. and Margaret Longnecker—that they are living in Detroit at 15061 Appoline. Ralph is vice-president of Martin & Krausmann company, general contractors in Detroit Hod Fish has moved in Grand Rapids, Michigan, to 13 McConnell S. W. . . . Marjorie Kenyon is assistant professor of biochemistry, no less, at the Woman's Medical college of Pennsylvania in Philadelphia It's Doctor Bernard T. Alm now, at the Receiving hospital in Detroit Lieut. Harold E. Brooks has moved in from the Philippines to Fort Sill, Oklahoma Frank B. Manning works for the Pere Marquette railroad in

Grand Rapids, and lives there at 715 Union avenue S. E. . . . Margaret Matthews writes from 3238 N street N. W., Washington, D. C.: "I have been in Washington nearly four years with the Washington Gas Light company. My particular work is the 'home service' end of the business, which means that I go into the consumers' home and talk with the housewife after she has purchased new appliances. Home demonstrations, cooking school work, etc., are a part of the work." . . . "The book of life has opened for Edward Bruce, January 22, 1935, weight 8 pounds 2 ounces" is the message in the two and a half by three and a half envelope from Jim and Annie Laurie (Walls, '26) McElroy of St. Johns, Michigan . . . Karl Schuster is located at CCC camp, Presque Isle, at Onway, Michigan . . . Buy your posies from Harold Widdis, he's a florist in Buchanan, Michigan . . . Henry and Lilah Kyser Wylie have moved to Hancock, Michigan, where they live at 211 Water street.

1929

Phil Olin Secretary

138 Linden, East Lansing

Walter Dernberger is married and lives at 102 Division street, Petoskey, where he works for the Michigan Bell Telephone company . . . E. M. Cray engineers in Schenectady for Harvey A. Dwight Oil Heat & Supply company, Inc., of Albany, New York. His local address is 959 Wendall . . . Horace A. Gage audits for the Michigan Bakeries, Inc., of 100 Commerce avenue S. W., Grand Rapids . . . The sympathy of the class is extended to Hendry B. George whose father recently passed away. Hendry is central division manager in Lansing for the Cities Service Oil company . . . Marian Megchelsen writes from 17320 Fairfield avenue, Detroit: "Please note change of address so that I continue to get my copies of the RECORD as I do enjoy reading them. (blezzerheart). Still working in Detroit. Had a grand vacation this summer in Europe—only trouble was I didn't have time to look up some of the M. S. C. students who are living over there." . . . Earl and Marion Trumbull McCormell are living in Birmingham, Michigan, at 883 Ridgedale avenue. Earl continues with the Sparks-Withington company of Jackson . . . Mildred Babbitt Sweet (Mrs. H. G.) lives at 315 Storch street, Saginaw . . . Doug Watkins is employed in the conversion division of the Cedar Rapids, Iowa, gas company.

1930

Effie Ericson, Secretary

250 Beal St., East Lansing, Mich.

FIFTH ANNIVERSARY REUNION
Alumni Day, June 8

This is a golden opportunity for

you to set a record with the best percentage of your class members back for their reunion. Come on back and see what a success your former roommate has been or how much money he has made. Maybe you can "touch" him for a loan! Bring your wife and kids, sweetheart or sumpin', everyone's welcome at the class of '30 reunion. More news later, just remember the date and we'll plan on seein' ya' June 8.

"Mary Margaret Bell wishes to announce the arrival of a baby sister on December 29, 1934, Katherine Louise, weighs 8 pounds and is 21 inches long" reads a note from Tom and Margaret Hubbard ('29) Bell of Alpena, Michigan . . . Irene Brownson's a medical dietitian at the Rochester General hospital, Rochester, New York. Irene hopes to return to the Campus for alumni day this June.

MARRIAGES

Fitch - Pichler

William A. Fitch, '26, and Carolyn Pichler were married January 19, 1935, and are making their home at 193-18 109th avenue, Hollis, Long Island, New York.

Foster - Hess

Emery G. Foster, '33, and Florence Hess, '34, were married in Chicago on January 25, 1935. They are living at 925 Glengyle place. Emery, who took the hotel training course, is working in the Palmer House. He is a Lambda Chi, a member of Scabbard and Blade, and helped elect Flo R. O. T. C. corps sponsor in the fall of 1932.

Huber - Dunkley

Burl D. Huber, '33, and Marie Dunkley were married September 8, 1934. They are living at 702 E. Ellsworth, Midland, where Burl is an accountant for the Dow Chemical company.

Johnson - Harris

Dale W. Johnson, '34, and Bernice Harris of Flint, Michigan, were married last Thanksgiving day. Their address is 35 N. Mason avenue, Chicago, Illinois. Dale works for the International Harvester company at the McCormick works.

Mate - Jacobs

Byron Mate, '31, and Ruth Jacobs were married in Chesaning on September 2, 1934. They are living at 803 E. Carpenter street, Midland. Byron mixes chemicals for the Dow Chemical company.

Porter - Hummel

William J. Porter, Jr., '32, and Lucile Hummel of Lansing were married August 25, 1934. They are liv-

ing at 423 N. Butler, Lansing, and Bill works for the Olds Motor. He also runs the popular dance band known as "Bill Porter and His Orchestra" whose vocal trio "The Three Stars" can be heard each Sunday on radio station WJIM.

Cobb - Churchill

Announcement has recently been made of the marriage of Clifton A. Cobb, '33, and Jeanne Churchill, '32, which took place in Portland, Indiana, on April 27, 1934. They are at home in St. Louis, Missouri, at 5455 Delmar. Cliff works in the research laboratories of the Ralston Purina company there.

Howard - Watkins

Arthur J. Howard, '30, and Margaret Deci Watkins, '31, were married February 16, 1935, in the Episcopal church in Dearborn. They will make their home in Jefferson City, Missouri.

Merriman - McKee

Merle E. Merriman (University of Maine) and Marian McKee, '34, were married at the home of the bride's parents in Decatur, Michigan, on February 22, 1935. After the first of June Mr. and Mrs. Merriman will reside in Detroit.

O'Connor - Blackmore

Robert L. O'Connor and Hazel L. Blackmore, both '32, were married in Hart, Michigan, on October 6, 1934. They are making their home in Hastings, Michigan.

Sherwood - Krause

B. P. Sherwood, Jr., and Elizabeth Krause, '31, were married in Grand Rapids last October. They are residing in Grand Haven at 1515 Sheldon road.

Simpson - Stickle

Thomas Lake Simpson, '34, and Jean Stickle, w'35, were married February 16, 1935, in Minneapolis, Minnesota. They will make their home at Scenic State park, Caleraine, Minnesota.

Thatcher - Turner

Garfield Thatcher, '31, son of F. E. N. Thatcher, '07, and Louise Turner of Muskegon, Michigan, were married early last month. They will make their home in Muskegon where Garfield is program director of radio station WKBZ.

VanderSlice - DeWitt

David A. VanderSlice, '34, and Magdalene DeWitt, w'33, were married February 22, 1935, in Ann Arbor, Michigan.

Cook - Benson

Richard W. Cook, '31, and Helen Benson, '32, were married in Munson, Michigan, last Christmas day. They are at home in Muskegon, Michigan, at 1736 Schuyler street.

Spartans



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IN MEMORIAM

James A. Neilson

James A. Neilson, for the past six years a research assistant in horticulture, passed away at a Lansing hospital on February 11, 1935, following an operation for appendicitis.

Mr. Neilson was a native of Walsh, Ontario, graduated from the University of Toronto in 1915, and received his masters degree from Iowa State college in 1923. Prior to coming to the College he was connected with the Ontario department of agriculture as an extension head, later going to the University of Manitoba in the same capacity. W. K. Kellogg of Battle Creek first brought the Canadian specialist to Michigan where he was employed at the Kellogg farm as research worker in nut culture. He later joined the College faculty but maintained his work at the Kellogg farm also.

In connection with Mr. Neilson's position as a research worker, he conducted an investigation on nuts of all varieties. The work took him into many sections of the United States and brought him into correspondence with all parts of the world in carrying out his study.

Mr. Neilson was a member of the Nut Growers' association, a national organization in which he held the position of president for one year and at the time of his death was a member of the board of directors. He also was a member of the Masonic lodge and the Canadian officers corps.

William Bernard Willson, 1902

William Bernard Willson, '02, died at his farm home near North Branch, Michigan, February 12, 1935, following a heart attack.

Mr. Willson was born and brought up on the homestead on which he died, and with the exception of a two year residence in Clifford, made it his home and the care of it his life work.

He is survived by his widow and six children, three sisters, and two brothers, one of whom is C. A. Willson, '06, of the University of Tennessee.

Charles Addison Ross, With 1911

Major Charles A. Ross was killed in San Francisco, California, on February 5, 1935. While attending the College he received his appointment to West Point where he graduated in 1913. Following his service in France he was stationed for some time in Washington, D. C., on the General Staff, and about four years ago went to the Pacific Coast.

He is survived by his widow and two daughters, and his mother and two sisters.

Alumni Day Reunions June 8

Classes of

1930	1905
1925	1900
1920	1895
1915	1890
1910	1885

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G-E Campus News



HEATING WITH COLD WATER

Reversible air-conditioning equipment, which may be adapted to either heating or cooling, depending on the season, is now in operation in a new building in Salem, N. J.

Reversing the cycle of the ordinary household refrigerator, the refrigerant absorbs heat from the water of a well which is at least 52 degrees even in coldest weather. This heat is added to that created by the work of the electrically driven compressors, and the refrigerant at 135 degrees gives up the total heat to the air of the building. Thus it is possible for an expenditure in electric energy equivalent to 100 heat units to obtain a total of 300 or 400 units for heating. Physics students will recognize this system as the heat pump.

During the summer, the process is reversed. The heat is absorbed from the air of the building. Then this heat and the heat from the compressors is dissipated in the water from the well, which then can be used for bathing, or washing dishes.

The building is completely equipped for year-round air conditioning. Besides heating and cooling, the equipment automatically controls the humidity, and cleans and circulates the air. The engineering and the planning for the installation were done by engineers of the American Gas and Electric Company and the General Electric Company, and the equipment was built and installed by General Electric.



FLEA-POWER MOTOR

New photoelectric cells, recently developed in the General Electric Research Laboratory, furnish enough energy to operate a tiny electric motor rated at four ten-millionths of a horsepower.

These "cells" differ from photoelectric "tubes" in that the cells convert light energy into electric energy, whereas phototubes do not themselves generate electricity but instead control the amount of current permitted to flow through them according to the amount of light they receive. The cells are of the selenium type, the selenium being coated with a film of platinum so thin as to be semitransparent.

Four of the cells are used to operate the motor, which in direct sunlight turns at about 400 rpm. But enough light energy is converted into electricity, when a 75-watt incandescent lamp is lighted eight inches away from the cells, to turn the motor at good speed, using three ten-thousandths of an ampere. One watt of power can be obtained from about 15 square feet of cell area in direct sunlight.

Dr. C. W. Hewlett, North Carolina State, '06, Ph. D., Johns Hopkins, '12, of the Research Laboratory was in charge of investigations that led to the development of the cells and the tiny motor.



GREEN BLUES

When the G-E "House of Magic" was exhibited at the Franklin Institute in Philadelphia not long ago, the cathode-ray oscillograph was one of the most popular features. This device, as you undoubtedly know, shows the wave shape of any sound, music, speech, or just plain noise—in the form of a moving, pale greenish-blue line on the end of the tube.

Rubinoff, the well-known radio violinist and orchestra leader, came down to see how his violin notes looked in the device. He had only a few moments in between engagements. But he became so interested after watching the gyrations of the dancing green line when he played "Humoresque" that he stayed for half an hour. He played on, and found that his violin produced green notes—even when he played the blues.

R. H. Mighell, U. of Denver, '29, of the G-E Research Laboratory, was in charge of the exhibit.

96-124DH

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