The New M. A. C. Teachers.

There are several changes in the teaching force of M. A. C. this year as was the case at the beginning of the last school year, and for the purpose of introducing the new teachers to students and friends of M. A. C. it is thought that so far as possible it will be helpful. Some of the changes that have been made are resignations while other changes are actual additions to the teaching staff.

Miss Made Gilchrist, B. S., who succeeds Miss Keller as Dean of the Women's Department, is a graduate of the Iowa State Normal School, 1880, and a graduate student of Wellesley College, three years, and of Göttingen University, Germany, one year, her particular lines of study being Botany, Mathe­matics, Literature and History. Miss Gilchrist has done successful teaching in her Alma Mater, Wellesley College, ten years as Instructor in Botany, and for two years in Women's College, four years in which Institution she was lady principal and from which she resigned to spend the past year at her home, Lawrence, Ks. In her graduate work Miss Gilchrist studied mainly in Botany having had, at different times, instruc­tion under such men as Bessey, Hallowell, Goodale, Settle, Peters, and Berthold.

GEORGE EDWARD DENMAN, A. B., William's College, '98, is the suc­cessor of Chas. O. Bentley as director of physical culture for men.

After graduation, Prof. Denman taught American History and Eng­lish in Riverview Academy, Pough­keepsie, N. Y., also having charge of the athletic work. During '99 and '00, Prof. Denman attended lec­tures on political economy and sci­ence, besides playing half back and full back on the famous '99 football team. For the past two years he has been a graduate student at French and Latin and was director of athletic work in Central Univer­sity, N. C., during the time his position to come to M. A. C.

Prof. Denman is a native of Mass. In hisWilliam's career, he was for three years half back on the football team and was on the track team two years, his specialty being the mile walk.

GEORGE SEVERANCE, B. S., Instructor in Agriculture, in the department of Animal Husbandry, was graduated from M. A. C. with the class of '01, agricultural course, before entering M. A. C. Mr. Severance attended the State Normal school at Ypsilanti.

GEORGE C. HUMPHREY, B. S., M. A. C. '01, becomes instructor in Agriculture, succeeding Prof. Mumford. Mr. Ferguson who acts as Assistant Professor in this department, owing to the rearrangement of work neces­sary by Prof. Mumford's resigna­tion.

WALTER W. WELLS, B. S., Instructor in Mechanical En­gineering, was educated at Albion College and M. A. C., being grad­uated from the Mechanical Course with a class of 1901. Mr. Wells suc­ceeds Mr. Reynolds as instructor, the latter having charge of the work of Prof. Diemer, resigned.

J. E. MYERS, B. S., instructor in zoology, in the gradu­ate of the Genesee, Ill. High School and of the Illinois State Insti­tution, in which Institution he held the laboratory assistant for the past year.

Mr. Meyers is an Illinois man born at Green Bay, Wis.

PHILIP H. STEVENS, B. A., succeeds Mr. Brown as instructor in English and assistant on the M. A. C. Record.

Mr. Stevens is a graduate of the Norfolk, Nebraska, high school, 1893, and of Iowa College, Grinn­ell, Iowa, 1900, whose latter place is his home.

J. E. BRASFIELD, M. S.

Instructor in mathematics was grad­uated from Lafayette College in '95, taking his Master's degree in '98.

He has spent one and one-half years in civil engineering and was employed for a time by the Mary­land Steel Co. as draughtsman. Mr. Brasfield has taught in the Pennsylvania State Normal School and more recently has been head professor of mathematics in the Franklin and Marshall Academy, located at Lancaster, Pa. Mr. Brasfield is a Phi Beta Kappa man.

HARRY M. GOSS, B. S., Assistant Librarian for the ensu­ing year, is an alumnus of M. A. C. class of '93.

For the past eight years Mr. Goss has been in business at Plain­well, Mich. His previous experi­ence in library methods consists of one year in Denver.

GEORGE D. WHITE, B. S., M. A. C. '01, becomes Laboratory Assistant in Chemistry while pursu­ing further study in his chosen line of work in his senior year at M. A. C.

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ROBERT S. NORTHROP, B. S., is a graduate of the Lansing High School and of M. A. C. '01, being in the Horticultural division of the Agricultural course.

He becomes Laboratory Assistant in Horticulture by reason of the inc­rease of work in this depart­ment. Besides the assistant work Mr. Northrop will take up post­graduate studies.

State Fair at Pontiac.

The 33rd annual State Fair opened at Pontiac Sept. 23-27. The weather was sunny and simple, having been exceedingly favorable to accommodate the State Fair. Rail­road trains and electric cars run to the gates of the fair every day from 8 a.m. until 8 p.m. and the fair will be open every day from 8 a.m. until 9 p.m. The weather was delightful the entire day with the exception of a slight shower at 2 p.m. on Saturday.

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An Enthusiastic Endorsement of
Our Mechanical Course.

[The following is a letter written by one of our graduates, now instructor in steam engineering and a member of the Nebraska Cul­tura Agricultural College, containing so much that the new student may possibly profit, that we think it well to have space in our columns at the opening of the College year.]

Professor Agricultural Cul­tura College is a good place for a young man to study engineering, because it is a place where he will be trained to work hard, and study hard; be­cause the instructors are capable, enthusiastic, sympathetic, and easily approached; and because there is a spirit of industry and studiousness that pervades the whole place and impels students to do their best.

The educational value of the mechanical course may be summed up in a few words. It makes the most of three good points: the teaching of the best theory in the class room, the opportunity for the most thorough and complete study of the development of the greatest amount of good common sense and personal talent in the young students for their own years. Since it is mental and physical training rather than subjects studied that makes up the larger part of an education, it follows that the mechanical course which requires a narrow, persistent effort both in the workshop and the class room, together with the closest of observa­tion, must make educated men.

The engineer's sphere of action is not local, but covers the whole world, and the things he is asked to do are all building and all manufac­turing, both present and to come. It is unwise then for a school to offer a narrow, specialized course to the undergraduate, when what he needs is a training in the basic principles of engineering which will give him a firm foundation to build upon in the future. M. A. C. is fortunate in taking a broad view of the matter, and that is the very reason it is worth while for recommending her mechanical course.

Her engineers have entered nearly every branch of engineering and have been uniformly successful, thus emphasizing the advantages of a liberal course. I believe the mechanical course at M. A. C. is a good thing, and I congratulate both the freshman who enters and the senior who graduates.
The M. A. C. Record.

THE M. A. C. RECORD.

Published weekly by the MICHIGAN AGRICULTURAL COLLEGE,
EAST LANSING, MICH.

ASSISTED BY THE STUDENTS.

Subscriptions should be sent to THE RECORD, EAST LANSING, MICH., assisted by the students.

Subscriptions: 75 Cents per year.

Receipts, of all kinds, to be sent to the Postmaster, Lansing, Mich.

THE RECORD acknowledges with thanks a "Press complimentary" to the Fifty-second annual State fair at Pontiac, Sept. 23-27.

The year opens for us quite auspiciously. From early morning until late this afternoon students have been crowding the doorways and halls of the college and to the attendance promises to be all that our equipment will accommodate. I am able to tell our friends more about the opening of the term after the publication of the records have been made up. Just now we simply note the omissions.

Chasing Sunset.

Taking the Grand Trunk train 8:35 to Lansing and 8:52 to Chicago on August 22d, and stepped aboard the Pullman coaches on the Burlington train at 4 p.m., for a trip to Denver, Col., the same day and en­countered the train at 10:15 a.m. the next day. The speed and comfort of travel on the two railways is sug­gested by the journey to Chicago and the trip to Denver. One day we note about the "seven-league boots" of childhood's tale. This wild rhythm, to which the children of the world are ostgutted by the facts of the manhood's prime. A trip of a week or two miles amid the roar and luxuries of a parlor, is only a day's march into the expansive and illimitable west.

The meetings of the American Association for the Advancement of Science I will not try to describe in detail. They were held in the Den­ver high school building—that distinctly American palace of the common people—greater and richer than the palaces of royalty, because the latter are built by the hand of the skilled workmen, could not afford the time; here was an American palace of the common people, the arrowheads, and brought back some good advice from my friends, how to catch the wagons. This advice I still have on hand and will cheerfully give it to anyone who desires it. On the way to Denver I met with the conviction that Michigan is a very good state to return to, even from the gold and silver mines of Colorado.

MEMBER OF CLASS OF '64.

Our visit was a visit with S. M. Millard, 51, a leading lawyer of Chicago, and our friend of Illinois College, 1879-91. He was a member of my first class in chemical analysis in 1893, and is a personal friend to this day.

VISIT TO SOUTH CHICAGO STEEL WORKS.

To the inquiry, "What do you especially want to see in Chicago?" and "What is the Chicago steel works during the strike?" Armed with a permit from headquarters we took the two-train for South Chicago. We found no evidence of the strike, for the works were in full operation, and the progress of the steel from ore to steel rails. The thing that struck me was the progressive elimination of human toil and the substitution of machinery in this great industry. A certain amount of work was done by common laborers—Poles and Hungarians, in loading a prescribed number of narrow loads of ore, coke and flux (limestone) into a car for the blast furnace, but from this point the hand of man did not touch or handle directly the charge from the rollers as finished steel is packed for the rolling mill, passing and repassing, till drawn out into long, glowing white rods for the final finish where they receive their final form. These rails are sawed off at the ends and notched, and the finished product is ready for the world's work. But in all this round of transformation from blast furnace to rolling mill to where they receive their final form. This shows why I went to Denver in August. It was

To Colorado in Vacation.

Although often stated in scientific journals, it is rarely comprehended by students of today that a knowledge of botany has advanced more in the last forty years than in all former years combined. When our present professor, Rev. J. C. Marcellus, of the University of Michigan and at Harvard, no undergraduate received more than six weeks of daily work in botany, and many universities and colleges had no botany whatever in their courses of study. At Harvard there was an opportunity for four months more than the required six weeks, but very few elected to continue. Those days were chiefly devoted to systematic botany, morphology, and the development of the green plants. These were three fields of work closely related, and we have learned that the botany of plants is a subject of greater extension than ever before, and that others at least have been added, viz.: plant histology, plant physiology, ecology, bacteriology, and the study of parasitic plants. Through the rapid development of agricultural colleges and work in the state, Department of Agriculture, there was an opportunity for a student to earn a living by a way of knowledge. Other colleges followed in teaching botany, and today there are hundreds of well trained and enthusiastic teachers helping to build up a knowledge of botany that botany in any of its departments is a charming and valuing characteristic of our classes. This shows why it was

In Memoriam.

In honor of the deceased President, on Thursday, Sept. 19, all work will be suspended at the College, and memorial exercises will be held at 2 p.m. in the Armory. There will be speeches from distinguished representatives of the profession. All students are earnestly requested to attend these exercises and to observe the whole day. The exercises will be held at the place of those who have gone before us. H. E. Mumford has gone to the University of Kansas. Prof. C. O. Bemies has returned to the post office, for no charge will be made for it. The name of the new men and women of the records have been made up. Just now we simply note the omissions.

As the sun set over the mountains near Denver, the traffic was crowded as the wagons pouring into the city, and truck farms from $300 to $500. In the city one is wakened at 3 a.m. by the roar of the market wagons pouring into the city, and by 6 a.m. a money-making machine begins to operate, quietly, the market being stocked.

From Colorado Springs to Cripple Creek to look at the most wonderful gold fields on the earth. The Cripple Creek is about 6 or 7 miles from Colorado Springs, and the Crow flies, but by rail it is 41 miles, the traveler rising 3000 feet in passing that distance.

It surprised me to find the weather hotter in Denver than in Michigan, the mountain air is not what it is claimed for coolness and exhilaration. I carried warm clothes and a heavy overcoat, and brought them as an old standard authority on water and its agricultural uses not only in Color­ado, but in all the western states as entomologist, chemist, etc., etc., high in their position and honored in life. It makes the old heart thrill and old eyes brighten to meet the old boys and clasp their hands.

SUGAR BEETS.

Of course I had to talk about sugar beets and that land of promise, Aladdin. I read a paper on the development of the beet sugar industry in Michigan. It is a subject of great interest among large number of scientific and industrial men, and the paradise of the sugar beet is concealed to be Michigan, yet some contended that no one could compete with Michigan in this industry.

It was a surprise to learn the price of farm lands that could be irrigated. Alfalfa farms within a few miles of Denver are worth $200 per acre, and truck farms from $500 to $300. In the city one gatheret at 3 a.m. by the roar of the market wagons pouring into the city, and by 6 a.m. a money-making machine begins to operate, quietly, the market being stocked.

FRUIT DAYS.

One peculiarity of Colorado is a day set apart each year to bring before the public the early-harvest fruit from the state. The harvest has been changed to pig iron in the blast furnace, but from this point the hand of man did not touch or handle directly the charge from the rollers as finished steel is packed for the rolling mill, passing and repassing, till drawn out into long, glowing white rods for the final finish where they receive their final form.
not so much to satisfy a curiosity to see for the first time some of the country west of the Mississippi, as it was to meet live men and exchange views with those engaged in the study of plants.

The American Association for the Advancement of Science was organized over half a century ago and now has sections for ten kinds of work. Each of these has so much of interest for its members that the chemists have no time to look after the botanist or the geologist. The Society for the Promotion of Agricultural Science was started twenty-two years ago and has a select membership of nearly eighty members. Dr. Kedzie and the writer have long been members and both of us had something to say at Denver.

The Botanical Society of America also met at Denver and consists of some of the fellows of the A. A. A. S. These are striking men, all of them on the alert for the best new things about plants. The American Forestry Association met at Denver and I was very glad to have a chance to meet and hear Gifford Pinchot, Chief of the Bureau of Forestry at the National Capitol, as well as a number of others. Mr. Pinchot and myself agreed exactly on the best kind of work for students of M. A. C. to engage in, provided they could elect one study for each term of the Senior year and devote it to the subject of forestry. Besides the half term of forestry we now have in the junior year the work which would consist of a study of systematic botany of 100 kinds of trees, of the peculiarities of wood as seen by the aid of a compound microscope, and a knowledge of how a tree lives and grows.

I took a room in the 9th story of a hotel where I could look out on the Rocky Mountains and let them make an impression. I left Denver and mentally feasted with C. E. Bessey, ’09, B. D. Halsted, ’72, F. J. Amis, ’75, L. G. Carpenter, ’79, W. W. Remington, ’80, C. P. Gillette, ’81, E. A. Burnett, ’87, W. Paddock, ’93. We examined the strongest points and some of the weakest ones of M. A. C. as compared with other colleges.

With Professor Parmnelt of Iowa, I spent one day and a night in the mountains, where it was necessary to add an extra long breath every little while to get the proper supply of oxygen. We entered a mine, we collected plants, we looked on a mountain where snow is to be seen by the aid of a compound microscope, and a knowledge of how a tree lives and grows. We entered a mine, we collected plants, we looked on a mountain where snow is to be seen by the aid of a compound microscope, and a knowledge of how a tree lives and grows. We entered a mine, we collected plants, we looked on a mountain where snow is to be seen by the aid of a compound microscope, and a knowledge of how a tree lives and grows.

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C. E. Walter has returned from his trip to Norway and is again located at M. A. C. and ready for business again at the old stand.

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Old Students.

John Coat has a position with Hill & Co., Kalamazoo.

R. M. Norton is with the Upton Works, Port Huron, Mich.

H. T. Thomas is in the employ-ment of Olds & Soo, Detroit.

R. M. Lickay is with the Brooks Locomotive Works, Dunkirk, N. Y.

Frank C. Wells, '70—'73, has recently been elected State veterinarian.

G. F. Law, '89, has recently been assigned circuit judge in St. Clair county by Gov. Illis.

Mr. S. M. Millard, '64, of Highland Park, Ill., was a visitor at the College week before last.

Prof. Matthews, '85, brought the following graduates and former students to College last week while on his way to Greenville.

J. I. Breck, '84; G. L. Stannard, '76; Will Snyder, '82; W. E. Hale, '82.

The names in this Directory, as well as the names of all other advertisers, are of reliable parties. We hope that the faculty and students will take pains to patronize those who patronize us.

Mr. Luther Baker, '92, called at the College for a short visit August 20th. He retains the principalship of the Albion high school during the coming year.

C. E. Hoyt, formerly instructor in the mechanical department, now of Lewis Institute, Chicago, visited his many friends on the campus during the excursion week.

W. H. Burns, with '83, for some time a farmer of Rockford, Illinois, still loves his work and has a good word for M. A. C. He called during excursion week.

Dr. H. F. Palmer, '93, of Detroit has been appointed by Gov. Bliss a member of the State Veterinary Board to succeed Dr. Frank C. Wells recently made State Veterinary.

H. E. Van Norman, '97, made a visit of two or three days at the College during the last week in August. He is still cramlist for the Michigan Carbon Works, and has recently purchased a farm not far from Greenville.

Mr. and Mrs. Lucien Denison Watkins announce the marriage of their daughter Anne Catharine, to Mr. Charles Henry Adams, Monday, August 19, 1901, in the Methodist Church, Albermarle, Michigan. At home after Sept. 5, Lansing, Mich.

The genial Byron D. Halsey, '73, Professor of Botany at Rutgers College, N. J., visited the College August 21 on his way to Denver. He had been away so long that he had to inquire into his way to the Botanical Laboratory.

Chas. S. Guile, '79, is a lawyer of Bellaire, as he informs us, but also takes great pleasure in running a large farm of his own. He called August 15, and made many inquiries as well as favorable comments concerning his alma mater.

Prof. J. R. McColl, '90, professor of mechanical engineering, University of Tennessee, Knoxville, Tenn., visited the College last week. He contemplates taking a course for an advanced degree at his alma mater in the near future.

Among the visitors to the campus during excursion week were the following graduates and former students: C. I. Goodwin, '77; Carl English, with '84; Great Mas- selink, '93; W. H. Rayner, with '92; J. B. Breck, '83; G. L. Stannard, '76; Will Snyder, '82; W. E. Hale, '82; W. E. Hal, '82.

The older colleges and universities of this country for long periods made a very slow growth. Its development in equipment and size has been extraordinary.

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DENTISTS.


E. STAFFIN, 575 W. L. Snyder, '82, called on old friends during the last week in Aug­ ust. He is still cramlist for the Michigan Carbon Works, and has recently purchased a farm not far from Greenville.

Mr. and Mrs. Lucien Denison Watkins announce the marriage of their daughter Anne Catharine, to Mr. Charles Henry Adams, Monday, August 19, 1901, in the Methodist Church, Albermarle, Michigan. At home after Sept. 5, Lansing, Mich.

The genial Byron D. Halsey, '73, Professor of Botany at Rutgers College, N. J., visited the College August 21 on his way to Denver. He had been away so long that he had to inquire into his way to the Botanical Laboratory.

Chas. S. Guile, '79, is a lawyer of Bellaire, as he informs us, but also takes great pleasure in running a large farm of his own. He called August 15, and made many inquiries as well as favorable comments concerning his alma mater.

Prof. J. R. McColl, '90, professor of mechanical engineering, University of Tennessee, Knoxville, Tenn., visited the College last week. He contemplates taking a course for an advanced degree at his alma mater in the near future.

Among the visitors to the campus during excursion week were the following graduates and former students: C. I. Goodwin, '77; Carl English, with '84; Great Maselink, '93; W. H. Rayner, with '92; J. B. Breck, '83; G. L. Stann...