**Inter-Collegiate Oratorial Contest.**

The oratorical contest was won by James McFee, of Kalamazoo College, his subject being "Patriotism in Modern Times." Miss Minnie E. Bower of the State Normal was second; Miss Bower spoke upon "Martin Luther." Third place was given to Frank M. Halsted, of Kalamazoo, Miss Olive Crittenden Oliver, whose subject was "The Hero of Hungary."

The contest took place Friday evening at the Academy of Music, Kalamazoo. The house was packed by the Experiment Station Department. The State were represented by delegates and representatives.

George M. Olmstead, who was the representative of M. A. C. in the contest, had for his subject "The Anglo-Saxon and His Destiny." He opened up the contest by stating that the sick man who went from potash salt were discovered in Germany and may supply a part of the portion of the potash used in fertilizers. Potash is an exceedingly useful plant food. However, it is not available as plant food. The potash of the wood, the fruit hangs on and the wood, the fruit hangs on and keeps better. A. G. B.

**Encyclopedia of American Horticulture.**

Volume 1 of this valuable work by the famous horticulturist, C. W. Goodell, Cornell University has been received by the Experiment Station. The remaining three volumes are to be received in the near future. It is a large work, covering the whole field of horticulture, from the culture of the commonest plants to the cultivation of the most elegant flowers.

He gives a list of contributors consisting of 180 names, among which are included the following graduates of M. A. C.:

Prof. C. S. Crandall, '73, Colorado; W. W. Garfield, '79, Michigan; Prof. B. D. Halsted, '71, New Jersey; Prof. U. P. Hedrick, '93, Michigan; C. H. Hicks, '92, D. C.; W. A. Kimbrow, '92, D. C.; Prof. E. E. Lake, '85, Oregon; Prof. R. H. McDowell, '74, Nevada; Prof. W. M. Mann, '87, Missouri; Prof. C. Taylor, '83, D. C.; Prof. J. W. Tounsey, '95, Arizona; Prof. S. M. Tomlin, '91, Minnesota; Miss F. W. Tracy, '67, Michigan; Prof. James Troop, '78, Indiana; Prof. C. C. Waldron, '87, North Dakota.

Including Professor Bailey, '83, the editor, this makes sixteen persons or nearly one-eleven of the whole faculty. This illustrates the fact that M. A. C. is prejudiced in favor of the men who are interested in the subject of commercial horticulture. Only three of this number received instruction in other colleges or universities after leaving M. A. C.

**Musical.**

Mrs. Marshall and her pupils will give a musicale Friday evening, May 12, at 8:00 o'clock. They will be assisted by Mr. King, Mr. Nagelvoort and the M. A. C. chorus. The program will be something as follows:

1. Song - Miss Hudson
2. Piano Solo - Miss Webster
3. Piano Solo - Miss Krohn
4. Dramatic Reading - Mr. King
5. Piano Solo - Miss Dewey
6. Piano Solo - Miss Hudson
7. Selection - Mr. W. Packard
8. Reading - Mr. King
9. Piano Solo - Miss Nolan
10. Selection - Mr. Packard
11. Song - M. A. C. Chorus

An invitation is extended to all who are interested in the music department.

**Experiment Station Notes.**

The Experiment Station is testing the feeding value of salt lucerne (a legume closely related to alfalfa) in a very practical manner. There is in one plate, one tenth of an acre, and on this plate a ewe with her two lambs has been placed, on a portable pen. The pen is moved sufficiently to give fresh pasture for the sheep, every day, and it is expected that the one-tenth of an acre will support the sheep until October, the ewe being removed after weaning them the first of July. Experiments are also to be carried out with respect to fertilizing many kinds of crops and pastures, portions of the State are to contain twenty-four plates each. On each plate, materials are to be used to determine whether alone or in combination—Nitrates, 200 lbs.; Dissolved Phos. Rock, 400 lbs.; Sulphate of Potash, 200 lbs. The object of these trials is to determine if possible, the best methods of treating mucous lands.

**Unate Matches.**

A few days ago Mrs. Wilson, wife of Gen. J. H. Wilson, military governor of Mecascan province, was so badly burned at Matanzas, Cuba, while driving from her home to the general's office that she died a short time afterward. The cause of death was said to have been caused by a match that was lying on the bottom of the carriage. It is stated that Mrs. Wilson stepped on it, whereupon her dress took fire.

A similar horror happened to the Secretary Bird and the M. A. C. chorus. It began on a match when a portion of the burning material to some distance. Such matches were formerly called "Perfumage Matches," and very properly, because a similar compound of chloret de potassium, sulphide of antimony, and red phosphorus was once used for perfumage caps. The chloret matches may be safely used if kept in the match safe, but when left on the floor or under foot they hold the constant danger for persons who have on combustible clothing. The match on the floor is easily overlooked, but is a trap of danger for the unwary foot. Never leave it on the floor or throw it into the dust box.

The U. P. Experiment Station.

Secretary Bird and Prof. Taft are in Chatham this week. The former goes to arrange for the building of a musicale. The latter, at the U. P. Experiment Station, and the latter to superintend the planting of the fruit trees and plants. About eight hundred trees of hardy varieties of apples, plums, cherries and pears will be set out this spring, besides one hundred of the most valuable fruits of the season. Mr. Odium was sick for some little time, but has now recovered and is prejudice in favor of the men who are interested in the subject of commercial horticulture. Only three of this number received instruction in other colleges or universities after leaving M. A. C.

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An invitation is extended to all who are interested in the music department.
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ASSISTED BY THE STUDENTS.

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J. O. FORD, in whose name the Record regularly is to be found.

Official Directory.

Y. M. C. A.—Regular meetings Sunday evenings at 7:00 and Thursday evenings at 6:00. Gen. Secretary, President F. M. W. East, Gen. Secy.

Y. C. C. W.—Weekly meetings for all ladies on Thursday evenings at 7:00. Gen. Secretary, President B. C. M. Ball, Williams Hall. Secretary, Miss W. K. Younger.

FEMALE DAUGHTERS—Meet alternate Wednesdays, Mrs. W. F. Miner, President, Mrs. L. V. Morris, Secretary.

M. A. C. LITERARY SOCIETY—Meetings every Saturday evening at 6:00. Gen. Secretary, President H. A. Baugh, Williams Hall. Secretary, Miss W. F. Miner.

M. A. C. ATHLETIC ASSOCIATION—Meetings every Sunday evening at 7:00. Chairmen, President F. M. W. East, President F. M. M. W. East, Secretary.

A. B. ALCOOT.—Meetings every Saturday evening at 7:30, East Ward, Wells Hall. President, H. P. Weydemeyer, Secretary.

UNION LITERARY SOCIETY—Meetings every Saturday evening at 7:00. East Ward, Wells Hall. President, C. W. Bale, Secretary.

HESPERIAN SOCIETY—Meetings every Thursday, Wells Hall. President, W. T. A. Miller, Secretary.

FERONIAN SOCIETY—Meetings every Thursday evening at 7:00. East Ward, Wells Hall. President, H. P. Weydemeyer, Secretary.

OLYMPIC SOCIETY—Meetings every Saturday evening at 7:00. Fourth Floor, Williams Hall. President, H. P. Weydemeyer, Secretary.

Y. M. C. A.—Regular meetings Sunday evenings at 7:00, West Ward, Wells Hall. President, W. J. W. Ford, Secretary.

H. H. T. DELTA SOCIETY—Meetings every Saturday afternoon at 4:00. East Ward, Wells Hall. President, H. H. T. Del, Secretary.

TRIUMPHAL SOCIETY—Meetings every Saturday afternoon at 4:00. Fourth Floor, Williams Hall. President, H. H. T. Del, Secretary.

THE M. A. C. RECORD.

SUBSCRIPTIONS SHOULD BE SENT TO THE SECRETARY.

Friday evening at 7:00, East Ward, Wells Hall.
Saturday evening at 7:30, East Ward, Wells Hall.
Sunday evening at 7:00, West Ward, Wells Hall.

The Present High School Methods.

ABSTRACT OF A POSTER BY W. E. RUDIY, Jr.

Huxley says,—"Education has two main objects: one, to in- crease knowledge for its practical benefits; and second, to develop the love and knowledge of truth, or the love of the "truth." If this definition is cor- rect, one of the greatest objects of the high school is to train pupils in the exercise of the higher faculties. Is the knowl- edge gained in the high school of this character? A. B. Alcott answers this question by saying, "Observation more than books, experience rather than persons are the proper subjects of study for a high school student."

In most schools little attention is paid to chemistry, physics or scientific work and none to manual training, which give experience in lines the pupil is most likely to follow. The reason for this is that these schools have no time to give to this in-course; the great majority schools, instead of teaching the branches that will enable the student to enter the universities for general examination, the studies pursued are more or less the same as a scientific cal rather than a scientific order,—such as Latin and Greek. Some---say that the pupils "get tired," but the fact is that they have not been taught any thing that interests them.

Phelps, "In teaching the pupil the right of language, precision of expression they may give if the pupil is taught to trans- fer the abstract ideas of his mind into clear, terse, elegant English. But what fraction of one percent, do these faculties develop your power of attention and give the pupil the character that come from diligent occupa- tion and conquest of difficulty, if the pupil does not interfere. But if the pupil does interline and does it stenographically, not only the training is lost—but the character is lowered by the act.

If we omit the study of classics from the curriculum, the necessary thing must be added to take the place of them, and at present there is a great tendency to devote more time and energy to the specific work of the trade, still to manual training. In Albany, St. Paul, Chicago, Detroit, and other places, where this system has been introduced with great success. In England it is looked upon with favor.

The training consists of carpenter work, use of machine tools, drawing and laboratory work, playing with boys, and sewing and other domestic work for girls. The time given to this by different schools varies. The mechanics of the course of the pupil, kind of work done and the other requirements of the school, makes the time to two hours a day seems to be the best amount of time to allot to manual training. This training awakens an interest in the school work. There is a change from study to a different occupation and this variety enables the pupil to work more hours with less tiring effect. Manual training schools take advantage of this fact. A casual study of our course and a manual study are done outside.

The object of such a school is, first, to get the pupil in some kin- d of trade or work on the farm that is essential to the right and full de- velopment of the mind with care, and foster a higher ap- preciation of the value and dignity of intelligent labor and the worth and respectability of laboring men. The graduate of the manual training school now will make the water rise in the pump—and a good part of the facts of experimental science. The pupil will be taught to regard the work and not the man and one has said "The hand and the mind are natural allies."

High schools should aim to train the analytical, reasoning and con- structive powers, so that the pupil will be able to practice what he has been taught. It has been said that a manual training is essential to the right and full de- velopment of the human mind.

We have been able to give only a very brief description of Mr. Welch's data. His methods might have been misunderstood and any one interested in the dairy business would do well to pay him a visit. C. W. K, V. M. S.

A Model Dairy Farm.

During a recent visit to the farm of Mr. Welch, we had the pleasure of thoroughly inspecting his dairy; and, to say the least, were very favorably impressed with it. We saw how Mr. Welch, in every way, an up-to-date farmer and dairyman. Not content with the average of the average farmer, he is continually experimenting to discover new methods and ways of carrying out necessary operations of the farm, or to prove the value of the old ones. In dairy work, he is in the business in a business-like manner, and is able to tell from just what sources he receives his profits, something which too many farmers of the state are unable to do.

Mr. Welch is located about four miles northeast of the city of L. on a farm of 550 acres, nearly all of which is improved. Although he takes much interest in general farm- ing, he has an army of workers this training will provide for its practical use.

The receptive and expressive faculties should both be brought into play, for we do not pursue are the knowledge of every-day work.

One has said "The advantages of good habits are as great as the disadvantages of bad ones."
At the College.

A black jersey has been adopted for athletics.

The junior annual will be out in a few days.

Prof. Mumford returned last Saturday morning.

The Military Hop will be held, Friday evening, May 25.

Miss Gertrude Lowe, '01, has received a visit from her sister.

Mrs. Nolan of Mio visited her daughter Marguerite Nolan, '02, last week.

E. M. O'Neil, with '92, of Mulliken, called at the College last Wednesday.

Mrs. Bird and children are spending a few weeks at their former home in Highland.

The agricultural seniors appeared at chapel on Wednesday morning in blue overalls and straw hats.

A turkey-buzzard was killed April 16th. It is the first specimen ever recorded in this immediate vicinity.

Prof. Smith was at Holland and Benton Harbor last Saturday, in the interest of the sugar beet industry.

Prof. Weil spent last Monday in Coldwater, and Wednesday and Thursday in Detroit, on College business.

Doolittle, Francisco, Fraser, Hodges and Wilson have been graduated by the athletic association.

There are no new developments in the scarlet fever situation. If all goes well quarantine will be raised next Thursday.

The library is in receipt of a copy of "Soils and Crops," by Geo. T. Fitchild, L. L., D., presented by the author.

Friday afternoon G. J. Danston, '93, and I. W. Bosh, '92, rode on their wheels to Howell, to spend Saturday and Sunday at their homes.

H. S. Reed canvassed Jackson, Lenawee and Monroe counties last week, gathering samples of fertilizers for analysis. At Ann Arbor he met Geo. Richmond, '98.

The farm department has recently purchased a Jackson Grade level for the use of the freshman class in "Soils and Crops." It is to be used in their farm drainage work.

The Natural History Society meets Wednesday evening. All the members are requested to be present, as the officers for next term will be elected at this meeting.

Dr. Willis Chapman, with '91, of Cheboygan, was at the College last Wednesday to visit Mr. Chandler. Mr. Chandler is the family physician. Mr. Chandler is conversant.

Samples of most of the summer birds have been seen in this vicinity. The abundant species not yet reported are humming-bird, wool pewee and one or two other flycatchers, whippoorwill and indigo bird. It is encouraging to note that the house wrens have come back this year in considerable numbers.

F. E. West, '99, left last Thursday for Mt. Vernon, N.Y., where he has accepted a position as manager of a large dairy farm. Salary $800. From eighty to ninety cows, in full flow of milk, are kept on the place of six hundred acres. W. K. Brainard, '99, is manager of another farm, owned by the same man, Dr. E. F. Brainard, where the young animals, and the cows when not in milk, are kept. The milk from the herd is manufactured into Dansa, a prepared food. Mt. Vernon is fourteen miles north of New York City.

A Good Suggestion.

It has been suggested by F. T. Williams, '98, who was one of the soldier boys in the late war, that at parade, during the lowering of the flag, all the young men in the vicinity of the parade ground remove their hats; this is the custom in the camps. The suggestion is a good one and the department wishes that it might be inaugurated here at the college, and to this end requests that all the young men, who for any reason have been excused from drill, and are watching the parade, comply with the suggestion.

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News from Graduates and Students.

Albert L. Pond, with '97w, is an electrician at Cornelia, N. Y.

Frederick C. Davis, '86, is a draftsman at Lincoln, Nebraska.

Leonard H. Parkes, with '97, is a farmer and teacher at Allegan, Mich.

William V. Sage, with '84, is superintendent of schools at Mt. Pleasant, Mich.

Theodore A. Stanley, '85, is engaged in dairying at New Britain, Conn.

Dor J. Stacky, '89, is agent for the Standard Oil Company of New York at Rockland, Me.

James L. Perrin, with '97, is an electrician for the Bartlett Illuminating Co. at Saginaw, Mich.

Richard W. Edling, '86, is engaged in the drug business at 514 Main St., Waterinine, Mich.

Walter E. Gammon, '88, is engaged in farming, horticulture, and dairying at Courtland, Calif.

Frank Palmer, with '75, is managing editor of the McCalmon-Pagelson Co. at Jackson, Mich.

Frank M. Owen, with '00, is a professional baseball player with the Detroit American League Team, Ypsilanti, Mich.

Chas. B. Pettibone, with '94, who received Ph. C. from the University of Michigan in 1899, is a pharmacist at Allegan, Mich.

Chas. C. Davis, with '86, graduated at the Chicago College of Dentistry in 1898, is a dentist at Kentwood, Wash.

James D. Hill, with '84, is prosecuting attorney of Williams county, Ohio, and cashier of the Chicago National Bank at Port Huron, Michigan, Mich.

Chas. D. Prichard, with '88, is a successful farmer and stock raiser at Ridge Farm, Ill. He has been president of the farmers' institutes of Edgar county since 1897.

Daniel P. Pagehouse, with '87, who received Ph. B. from the University of Michigan in 1898, is a lawyer and circuit court commissioner of Ota­wan county, Grand Haven, Mich.

William J. Meyers, '90, formerly professor of mathematics at Colorado Agricultural College, will finish the last course at the University of Michigan next June. Mr. Meyers expects to locate in Chicago.

Our New Prosperity.

By Ray Stannard Baker. 12 mo. $2.50. W. F. & C. McGraw & Company. The titles of the chapters are: The Benefice of Hard Times; How Prosper­ity Came; Influence of Speculation and Trusts on Prosperity; Ef­fects of the Prosperity Wave at Home; Expansion of Foreign Com­merce; American Commercial In­vasion of the World; Iron and Steel; Prosperity on the Great Lakes; A Self-Reliant South; The Rise in the Price of Meat; Corn, Wheat, and the West; Coal and Coke; Wool and Lumber; Labor; The Edge of the Future; The Country's Great­ness.

A few of these chapters have recently appeared in Harper's Weekly and in McClure's Magazine.

Dead in Ecuador.

Information has reached Wash­ington telling of the death in Chan­chan, Ecuador, of a former Michi­gan man, Frank P. Davis. He was a civil engineer, who graduated from the Michigan Agricultural College in 1885. His Michigan home was in Vermontville, where he was born fifty-four years ago. He has made his home in Washing­ton for several years. He had been in South America since last August and was taken ill with dysentery six weeks ago. Two sons were with him. Mr. Davis was a member of the American Geographical Society at Charlotte, Mich. Mr. Davis was highly skilled as an engineer. For six years he was engaged in surveying for the Nicaraguan canal. Later he was employed by the Canadian government on the deep waterway survey.

—Press Press.

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