PORTLAND ASSOCIATION.

Following is a letter to President Snyder from F. E. Mangold, '05, secretary of the Portland C. A. association of Portland, Oregon.

The letter is dated Feb. 2.

"Received a long felt want and organized the Portland M. A. C. Alumni Association. Sixteen former M. A. C. students met in the "assembly" of the Electric building. E. D. Searing called the meeting to order and steps were taken to organize a permanent association of which Howard E. Weed was chosen president and F. E. Mangold, secretary.

"Enclosed you will find a list of M. A. C. alumni who are in the city. We should like to complete the list and get in touch with all former alumni who are out here.

"We would be glad to receive a copy of the M. A. C. Record also some special songs to pass around. It is our desire to keep in touch with M. A. C. and its growth.

"Below is given the roster mentioned together with address of each:

**PORTLAND M. A. C. ROSTER.**

H. L. Chapin, '87, Spaulding Blvd.
W. L. Crotty, '82, Splinling Blvd.
Geo. L. McPherson, '88, Spaulding Blvd.
Chas. M. Hempfling, '99, Ogowe, Ore.
Howard Evarts Weed, '90, 628 Lewis Bldg.
A. S. Eldridge, '90, Lewis Bldg.
C. W. Bales, '90, R. D. F. No. 2, Portland.
C. A. Van Winkle, '00, 1164 E. Younghill St.
C. L. Thomas, '04, 548 Kerby.
F. B. Mangold, '05, 878 Michigan Ave.
H. O. Judd, '06, Portland oats.
A. Simpson, '05, 833 Third St.
M. Les Kingdry, '07, 840 Larrabee St.
Mrs. Dora Sadowski Post, '08, 3559 6th Sr.
A. O. Kratz, '07, 895 Third St.
Arthur F. Moore, '07, 1087 Bldg.
R. C. Brodie, '98, Canby, Ore.

ENTERTAINMENT COURSE.

Third Number, Mendelssohn Trio and C. Edward Clarke, Baritone.

The Mendelssohn Trio, in place of the Pasmore Trio, with C. Edward Clarke, Baritone, was the third number of the entertainment course in the College Armory, Wednesday evening, Feb. 15th at 8 o'clock.

The following criticism appeared in The Herald, Decatur, Ill., Feb. 10, 1911:

"Seldom does such a musical treat come to Decatur as was afforded last evening in the James Miliken University assembly hall by the Mendelssohn Trio and C. Edward Clarke as the fourth entertainment in the University lecture course. Each of the three members was an artist and the selections by Violet Smith Clarence, pianist and Linda Slade, cellist, Louise Smith cellist, and Mr. Clarke, baritone, was equally enjoyed. Miss von Sayn, in her first appearance last evening, gave "Romance" by Tchaikovsky. The ladies were played with a grace and ease of execution which proved her mistress of her instrument. After each appearance she was recalled, responding to the last encore with a difficult rendering of "Old Folks at Home," in which the harmony was beautiful.

Miss Smith appeared but once in cello selections, but her proficiency on the much loved instrument won her great favor.

Both as an accompanist and a pianist, Violet Smith Clarence is a pianist of wonderful ability. Not only does she possess as a musician, which marks the true artist and which enables the person with a small knowledge of music to appreciate the beauty of the works of the masters as thoroughly as does the professional musician, but the least pleasing part of the evening's entertainment were the songs by Mr. Clarke. With a marvellous baritone voice controlled and modulated by the singer as a splendid organ in the hands of a true artist, Mr. Clarke completely charmed his audience with his delightful rendering of interesting selections warming up the program three times on the program and being recalled after each appearance. Remember the date, Feb. 15th.

THE COSMOPOLITAN CLUB.

"Russia-Japanese Night" was given on Friday, Feb. 10, with great success. The beautiful Japanese lantern slides were shown and the Japanese fencing was a great treat.

The program was as follows:

Piano duet, by S. Langdon Hutchins.
Count Tolstoi's life, by Ellman, M. A. C. Quartet.
Lantern Slides, Explained by Itano.
Fencing, Chas. Okada vs. Itano.

MATCH GAME.

A very fast game of basket ball was played between the junior and senior girls in the gymnasium on Thursday, and ended in a decisive victory for the juniors, the score being 10 to 5.

Marjory Kedzie's team of inchiveldles some very strong playing and at the end of first half the score stood 10 to in favor of seniors but they were completely outclassed by the persistent playing of the second half, of Donna Edwards' team.

Line up:

**SENIORS.**

G. - Helen Dodge.  
F. - Marjory Kedzie.  
D. - Flora Bates.  
A. - Louise Wilson.

**JUNIORS.**

O. - Helen Dodge.  
F. - Dorothy Edwards (Capt.)  
F. - Lucile Hawkins.  
D. - Bertie Paul.  
A. - Alida Darouvar.  
F. - Pearl Allen.  
C. - Mrs. H. & Mrs. C. D. S.  
F. - Mrs. H. & Mrs. C. D. S.  
D. - Mrs. H. & Mrs. C. D. S.  
A. - Mrs. H. & Mrs. C. D. S.  
F. - Adults.

PIANO RECITAL.

Not until this term have outsiders had the privilege of hearing the students of music. On Friday evening, February tenth, an interesting piano recital was given in the parlors of the Women's faculty. The large and appreciative audience by courteous attention to the various numbers aided the students to secure that repose so necessary to successful performance.

The program was an excellent one, being carefully planned and balanced so that it represented many of the best things in the wide field of music. When necessary Miss Freyhofer gave some explanatory remarks concerning the numbers, the source of their inspiration and something of their history. These explanations enabled the audience to at once grasp the musical setting and enter into the spirit of the compositions.

Altogether this recital proved to be a most interesting occasion, inductive as well as pleasant. We hope we will have many more during the year.

The program follows:

Polonaise  
Rondo  
La Faraqtre  
Miss Josie Whitney  
Miss Minnie Bailey  
No. 6  
Miss Faye Sherrill  
In the Gondola  
Miss Frances Sky  
Miss Sadie Brown  
Miss Marion Holbrook  
Impromptu  
Miss Ruth Wood  
Duets - On Bloomington  
Julia Rose King  
Misses N. Hethmon and S. L. Mantz  
Intermezzo  
Spinning Song  
"From the Flying Datchman"  
"Wagner Lied"  
Miss Fern Levesque  
"In Autumn"  
A water lily  
Miss Doxla Edwards  
Scenes from Childhood  
(a) The Knight of the Holy Lance  
(b) Catch Me, If You Can  
(c) The Pope Speaks  
(d) Important Escapade  
(e) Dreaming  
Spring Song  
Miss Irene Carter  
Spring  
Miss Maudie Lambrou  
The Last Hope  
Miss Louise Clemens  
Prelude in G sharp minor  
Mr. L. N. Hutcheson  

ROOMS WANTED.

Two hundred rooms for visitors at the Round-up Farmers' Institute, February 28 to March 3. Give location of residence, character of accommodations and price per night, with name, if possible, and number in room; also state if meals will be furnished.

Address, Supt. Farmers' Institutes, East Lansing, Mich.

EDWARD LANING, MICHIGAN AGRICULTURAL COLLEGE.
Mr. Thomas Gunson addressed the club on Horticulture in England. Mr. Gunson said that as England has a uniform climate the plants are very hardy, and, while there are no peaches, the plum, pear and cherry are perfectly at home; no country is more famous in raising gooseberries, strawberries and raspberries. Strawberries grow much larger than in America and are grown by the acre, being three or four times as large as the American berry, with a sweet and flourishing raspberry patches over forty years old. The currant is a standard fruit and is sweeter in contrast to the American currant. In the industrial and mining regions there are, however, the southern part, including Surrey, Kent, Cornwall, etc., forms the fruit belt of England.

Four is considered a great luxury there, and, as a rule, is only eaten by the wealthy class. Tree fruits are grown upon the walls, which were built around the homesteads in feudal times, and usually enclosed five to fifteen acres of land. The trees are artificially fertilized and arranged in different exposures, so that the fruits will ripen in succession. Pears are picked green, and ripen in the air. Many are especially constructed sheds. Apples do not ripen well, have not the color and flavor of American apples, and are not good keepers. Grapes are a staple food, and they are grown in large quantities. The famous English grapes are sold upon the American market. The plum is a very desirable crop, as the fruit is not affected by black knot, plum pockets, etc., that are a plague in America. An English gardener must give a guarantee to have fresh fruit 365 days of the year in order to obtain a good position.

In England every home has a garden, and every man's house is his castle. There are very few of the commercial orchards. Mr. Gunson's address was one of the most interesting of the college year and was enjoyed by all.

Mr. R. A. Smythe, of Benton Harbor, Mich., President of the State Horticultural Society, gave a short address on the value of opportunity, and the interest of the college, teachers and students. It was worth 20 years of practical experience.

Mr. C. Sanford, of Grass Lake, gave an interesting talk on apple growing in southern Michigan. Mr. E. J. Godden gave the history of the Grimes Golden apple, and Mr. U. S. Crane, the history of the Pecan.

TUESDAY, FEBRUARY 14, 1911.

HORT. CLUB.

THE M. A. C. RECORD.
Better

Remember "Alabama" given in the college armory Friday evening, the 17th.

Miss Katherine Clark located at Wilbour, Wash., in sending in her subscription, adds: "The west is the only place for me."

Prof. Petit spoke before the agricultural students of the Hudson H. S., Saturday, where he met a number of former M. A. C. people.

H. W. Reynolds, a former assistant professor of engineering at M. A. C., and now of Berkeley, Calif., has recently submitted to a serious operation for stomach trouble.

The State Dairy Association holds a meeting in Bay City on Feb. 21-23. All of the teaching force in dairy husbandry, as well as a large number of the short course men will attend. The course closes on the 23rd to give those of the class who care to attend an opportunity to do so.

Mrs. Margarette Phillips, of Charlotte, chairman of the art department of the Michigan State Federation of Women's Clubs, was the guest of Miss Gilchrist on Friday last week. After an informal reception for the teachers and students of the department and a few other guests, Mrs. Phillips gave a most delightful talk on Picture Study. She illustrated her points by many reproductions of some of the famous master pieces. The interest aroused was shown by the eager questioning which followed the lecture.

Miss Fanny Smyth spent Saturday and Sunday at her home in Marshall, Mich.

Holler Perkins, of Grand Rapids, spent Saturday and Sunday in East Lansing, attending the military Saturday night.

Arrangements have been made whereby an annual debate will be held with Alma. The Presbyterians came here April 28 for the first contest.

A large number of poultry men are enrolling for the one week Institute. The program contains many interesting topics and indications point to a profitable week for those interested in this branch of agriculture.

Through the courtesy of Mrs. N. P. Jenison, Miss Annie Grant and the Misses Conkles, of Lansing, a very interesting and valuable collection of needle work was exhibited in the parlor of the Women's building last Wednesday afternoon. Mrs. Jenison gave a short talk on the history of the pieces and the character of the work. The collection includes some handsome Turkish and Persian embroidery, French needle work, hand made lace and embroidered garments of the last century, an ancient "sampler," and many examples of modern American needle work. Miss Coald, of the domestic art department, has some of these pieces on exhibition for a few days, in order that the students may study them. The department is deeply indebted to these ladies for this opportunity.

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E. G. Hoffman, Gr a nd Rapids, were guests at the military.

Pres. Snyder will speak to the Hoos. Club Wednesday night on "How Reciprocity will Affect the Michigan Fruit Grower."

A. W. Wilson, '97, was at M. A. C. last week in the interests of the Cincinnati Milling Machine Co. Mr. Wilson's headquarters is at Detroit, his former home.

The two Beta and Alpha Zeta authorities have been busy this term, and their methods cause both amusement and alarm — alarm to some of the farming community north of the college.

J. F. Boynton, of Grand Rapids, and a former employee of the poultry department, is in attendance at the Poultry Institute this week. Mr. Boynton has been employed on a large poultry ranch in Dakota the past year.

Mr. E. G. Hoffman, '10, who left M. A. C. last June to accept a position as third lieutenant in the native constabulary force of the Philippine Islands, has attended an officer's school at Baguio, near Manila, during the past winter. In his work there Mr. Hoffman stood second in a class of twenty-five, and in so doing received an appointment as junior officer in the First Company of Lancers, stationed at Lake Lumar, on the island of Mindanao. Mr. Hoffman was a major of the second battalion, during his senior year at college.

Student pay day Wednesday. Mr. P. M. Mason was on the sick list last week.

Prof. Shoemehirt, Messrs. F. A. Sprag and W. F. Raven attended the National Corn Show held at Columbus last week. All of the prize winning corn at the M. A. C. show was on exhibition.

Wells Prattner, '11, led a very interesting meeting of the Y. M. C. A. on Thursday evening. His theme was "Wanted Life," and many excellent and helpful thoughts were gathered by those present.

The civil service examination for forest assistant United States Service will be held in Lansing, Wednesday and Thursday, March 8 and 9. The rating of the examinations have been somewhat changed over previous years. Since 1900 the rating in subjects has been: Lumbering, 15 per cent.; training and experience, 10 per cent.; forest protection, 5 per cent.; silviculture, 20 per cent.; forest management, 15 per cent.; and general forestry, 50 per cent. Beginning this year the subjects are rated: Silviculture, 20 per cent.; forest management, 15 per cent.; silviculture, 10 per cent.; economics, 10 per cent.; training and experience, 20 per cent. This change will tend to make the examination more technical. About 20 seniors will take this examination. This is the first time this examination has been given in Lansing, the boys having to go to Detroit heretofore.
The M. A. C. RECORD.

SOME PRESENT DAY PROBLEMS IN TECHNICAL EDUCATION.

Michigan Engineering Society, Lansing, January 10, 1911.

G. W. Besseil, Elgin, Illinois, Ill.

To discuss all the problems, great and small, which confront the technical educator, would be out of the question in a paper of length suitable for presentation in this Society. It is proposed to consider only a few, those whose solution is far reaching and involves the efficiency of the technical school and the value of the curriculum to its graduates.

The first problem, to borrow from the vernacular of the industrial field, is that of raw material. The quality of this raw material and its quantity depend upon local conditions. Some schools are so situated and inclined that they select their matriculates by examinations external, and may thus determine within limits the intellectual attainments and general fitness of the applicants. This is true of the majority of the technical schools of this country, however, are intimately related to the public school systems of the states which furnish them mainly with students and are virtually, if not actually, compelled to apply standards of admission made for them by the secondary schools. If these standards are not satisfactory, the recourse is to educate the secondary school to higher or better requirements by college, a list of "accredited schools" which is theory is revised from time to time. The standard is the result of inspection or the records of the students during the course.

Another problem of the technical educator is furnished by the curriculum. This is a matter of course, and the problem naturally sub-divides into those of (a) subject matter, (b) its presentation, and (c) its administration.

The subject matter may vary widely and is much disussed at present by educators and those in the practical field into which the student enters upon graduation.

Shall the engineering course be general or specialized? Shall it be purely "technical" or be based on liberal admixture of humanities? Shall it be four, five, or six years in length? Shall it be conducted in the Cincinnati or similar plant? Shall the graduate receive the bachelor or the professional degree? These are some of the questions now stirring the minds and words of educators and laymen alike.

In attempting to answer any or all of these questions one should first of all pose to himself the question, "What are the specifications of a technical graduate?" The writer believes that the engineer must have the following qualifications:

(a) He must have a character built upon honesty, industry, tact, common sense and gentleness.

(b) He should be originally, mentally and morally sound and attractive.

(c) His mental equipment should consist of

(1) A thorough grounding in the fundamental principles of physics, chemistry and mathematics.

(2) Habits of accurate observation and analysis.

(3) Logical reasoning and generalization.

(4) Some initiative in research.

(5) Some familiarity with the use of the more important tools and instruments of his profession.

(6) The methods of designing and computation commonly employed.

(7) Power to express himself confidently, clearly and forcibly, both verbally and in writing, in public and in private, particularly in regard to his trade and business.

(k) Such a knowledge of the higher principles of ethical and economic problems of his own country and all times as will give him a true view of his duties and privileges as a citizen of the world and as a member of his profession.

These specifications are very inclusive and evidently some of the attributes listed cannot be secured by schooling. But if the real significance of the word "to educate" is caught, the qualities discussed as the products of the technical school are on the proper plane. This point will be discussed later.

(Koncluded in next week's issue.)

Mr. H. W. Norton and wife were college callers on Thursday. They have just returned from State College, Pa., where Mr. N. has been engaged during the short course session.

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(Continued in next week's issue.)

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