

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 16

EAST LANSING, MICHIGAN, TUESDAY, FEBRUARY 14, 1911.

NO. 21

PORTLAND ASSOCIATION.

Following is a letter to President Snyder from F. E. Mangold, '05, secretary of the new M. A. C. association of Portland, Oregon. The letter is dated Feb. 1.

"Last night we filled 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. students at Portland. We should like to complete the list and get in touch with all former students who are out here.

"We would be glad to receive a copy of the M. A. C. RECORD also some catalogs 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 Bldg.
W. F. Staley, '88, Beck Bldg.
Geo. L. McPherson, '89, Spaulding Bldg;
Chas. M. Hemphill, '89, Oswego, Ore.;
Howard Evarts Weed, '89, 303 Lewis Bld.
A. S. Eldridge, '89, Lewis Bldg.
C. W. Bale, '00, R. F. D. No. 2, Portland,
F. G. Carpenter, '02, care of Union Meat Company; Mrs. Chloe Goodrich Carpenter, '02; E. D. Searing, '02, 1185 Kerby St.
C. J. Voorhorst, '04, 1108 E. Yamhill St.;
L. C. Thomas, '04, 548 Kerby.
F. E. Mangold, '05, 878 Michigan Ave.;
H. O. Judd, '05, Portland Hotel; C. A. Stimpson, '05, 335 Third St.; M. Lee Kingsley, '05, 403 Larrabee St.
Mrs. Dora Skeels Post, '06, 3539 E. 68th St.
O. A. Kratz, '07, 385 Third St.
Arthur R. Wilcox, '08, 427 Beck Bldg.
R. C. Brodie, '09, 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, will present 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 offered last evening in the James Milliken University assembly hall by the Mendelssohn Trio and C. Edward Clarke as the fourth entertainment in the University lecture course. Each member of the concert company was an artist and the selections by Violet Smith Clarence, pianist, Helen von Sayn, violinist, Louise Smith cellist, and Mr. Clarke,

baritone, was equally enjoyed. Miss von Sayn, in her first appearance last evening, gave "Romance," by Tivador Nachez. * * * She 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 rendition 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 in many years has a more finished pianist visited this city. Combined with a brilliancy of technic is a rare gift of interpretation, the quality 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 true musician. * * * Not the least pleasing part of the evening's entertainment were the songs by Mr. Clarke. With a marvelous 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, appearing three times on the program and being recalled after each appearance. Remember the date, Feb. 15.

THE COSMOPOLITAN CLUB.

"Russo-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 feature.

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 Thursday, and ended in a decisive victory for the juniors, the score being 10 to 5.

Marjory Kedzie's team of invincibles did some very strong playing and at the end of first half the score stood 1 to 0 in favor of seniors but they were completely outclassed by the persistent playing in the second half, of Donna Edwards' team.

Line up:

SENIORS.	JUNIORS.
G.—Helen Dodge,	Donna Edwards (Capt.)
F.—Marjory Kedzie. (Capt.)	Philo Smith
F.—Flora Bates.	Lucile Hawkins
G.—Betty Palm.	Alida Dearborn
G.—Iva Wilson.	Fernelle Allen

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 building. 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, instructive as well as pleasant. We hope we will have many more during the year. The program follows:

Polonaise	Lack
MISS CATHERINE WILLISON	
Nocturne-L'Adieu	La Favarger
MISS JESSIE WHITNEY	
Gypsy Rondo	Haydn
MISS BESSIE BAILEY	
Nocturne No. 6	Field
MISS IVAH SHERMAN	
In the Gondola	Liszt
MISS FRANCES SLY	
Minuet	Borowsk
MISS MARGARET HOLBROOK	
Impromptu. Op. 142. No. 2	
Moments Musicaux. Op. 94. No. 2	Schubert
MISS RUTH WOOD	
Duet—On Blooming Meadows	Julia Rive King
MESSRS. LEE N. HUTCHINS AND SAMUEL LANGDON.	
INTERMISSION	
Spinning Song—From the "Flying Dutchman"	Wagner Liszt
MISS FERN LIVERANCE	
In Autumn	Mac Dowell
To a Water-lily	
MISS DONNA EDWARDS	
Scenes from Childhood	Schumann
(a) The Knight of the Hobby-horse	
(b) Catch Me, If You Can	
(c) The Poet Speaks	
(d) Important Event	
(e) Dreaming	
MISS IRENE CARTER	
To Spring	Grieg
MISS MADGE LAMOREAUX	
The Last Hope	Gottschalk
MISS LOUISE CLEMENS	
Prelude in C sharp minor	Rachmaninoff
MR. L. N. HUTCHINS	

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 one and with two persons in a room; also state if meals will be furnished.

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

ALUMNI

'97.

Editor M. A. C. RECORD,

East Lansing, Mich.,

Dear Sir: Inclosed find the price for a renewal. The weekly visits of the RECORD with its mention of familiar names disperses thoughts of the present and calls up pleasant memories of men and events at M. A. C.

I used to think, in college days, that I was busy, when to college duties were added efforts to offset board bills with "farm" (or other) "labor" at "eight cents per," serve on class and other committees and share in the many other activities that come in the way of the student who is not a "grind" but keeps dangerously close to the "passing grade," but the days seem to be just as full since leaving college, while the problems of society, class, and college affairs were just as serious, real and perplexing as any that have come since.

The past year or two has brought me much variety of work and scenery; 24,000 miles of railroad travel, with rarely seven consecutive days at college without a trip, is the 1910 record. National Dairy Show, State Dairy Association with college duties have made the days full. Have crossed the paths of Buck Ewing, Guy L. Stewart, Dwight Sanderson, and last Saturday, at Morganza, this state, Morrison, engineer now in charge of the industrial work with the boys in the State Reform school. Here we have Wright, H. P. Baker and wife, Mrs. Diemer, and, during part of the winter course, Norton, '03, giving instruction in butchering.

H. E. VAN NORMAN,
State College, Pa.

'03.

The college community was shocked Monday to learn of the death by suicide of Prof. Frank J. Phillips, one of M. A. C.'s brightest and most successful alumni, of the University of Nebraska. Mr. Phillips completed his work in forestry at the university of Michigan after graduating from M. A. C. in '03, and has been a student all his life. He had not been in the best of health and it is supposed he feared a general break down. The method of suicide was that of inhaling gas, previous to which several letters written giving direction as to the disposal of the body. Mrs. Phillips was a Cedar Rapids, Ia., girl and is seriously ill as a result of the shock. One child, a little boy of two years is left.

'08.

H. C. Sherman is still with the M. C. Ry. with headquarters at Detroit. During the past summer considerable time was spent at Chelsea in reconstruction work, making levels, filling, etc., Mr. Sherman having full charge of the engineering work.

The M. A. C. RECORD

PUBLISHED EVERY TUESDAY DURING THE COLLEGE YEAR BY THE MICHIGAN STATE AGRICULTURAL COLLEGE

B. A. FAUNCE, MANAGING EDITOR

SUBSCRIPTION - 50 CENTS PER YEAR

Entered as second-class mail matter at Lansing, Mich.

Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.

Address all subscriptions and advertising matter to the M. A. C. RECORD, East Lansing, Mich. Address all contributions to the Managing Editor.

Business Office with Lawrence & Van Buren Printing Co., 210-212 Grand Ave. No., Lansing, Mich.

TUESDAY, FEBRUARY 14, 1911.

HORT. CLUB.

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 equal to England in raising gooseberries, strawberries and raspberries. Strawberries grow much larger and sweeter than in the United States, and the patches never die out. The gooseberry is the poor man's fruit, and they are grown by the acre, being three or four times as large as the American berry. There are many large and flourishing raspberry patches over forty years old. The currant is a standard fruit and is sweet in contrast to the American currant. In the industrial and mining regions there is little fruit, but the southern part, including Surrey, Kent, Cornwall, etc., forms the fruit belt of England.

Fruit 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 enclose 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 ripened in mushroom houses or especially constructed sheds. Apples do not ripen well, have not the color and flavor of a Michigan apple, and are not good keepers. Grapes are a staple food, and they are grown in hot houses from May till March. 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 home is his castle. There are very few 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, President of the Michigan State Horticultural Society, gave a short address on the value of opportunity, saying that four years in college is worth 20 years of practical experience.

Mr. E. C. Sanford, of Grass Lake, gave an interesting talk on apple growing in southern Michigan.

Mr. F. J. Goden gave the history of the Grimes Golden apple, and Mr. U. S. Crane, the history of the Pewaukee.

R. A. K.

STRONG FOOTBALL SCHEDULE FOR 1911.

Dropping of Notre Dame and Marquette Has Practically No Weakening Effects Upon Football.

Despite the fact that the athletic board of control officially decided in a recent meeting to drop Notre Dame and Marquette from the football schedule, there seems to be no indication of an especially lean year in the popular gridiron sport if the preliminary schedule that Director Macklin has announced be taken as a criterion of the completed schedule. The big game upon which fans and athletes will lay the greatest stress is that with Michigan, October 14, the game probably to be played on College field. Directors Macklin and Bartelme have not yet discussed terms and guarantees for this contest, and the result of this conference is anticipated with considerable interest. The University received \$1,200 as its share of the gate receipts in its initial appearance on the East Lansing field, but when the return game was played in Ann Arbor last fall, but \$200 was forthcoming. Since the rapid rise of the state college in football and the more secure establishment of her prestige in western gridiron circles, it is generally conceded that there should be at least a more even balancing of guarantees. This will undoubtedly be brought to pass in the coming conference concerning guarantees.

Director Macklin has booked contests with two colleges who will match strength with M. A. C. for the first time in many years. In the case of Western Reserve, the game to be played in Cleveland, November 18, will mark the opening of athletic relations in football with the Clevelanders. De Pauw will be played at Green Castle, Ind., November 4, this contest marking the resuming of athletic relations after a number of years. Other games which have been practically cinched are those with Alma at M. A. C., October 7, and Olivet at M. A. C., October 21. The former two games are expected to be of the top notch variety and should be big drawing cards on the local field where they will probably play in 1912. As per the three year contract, Wabash will close the season with a game on the local field, Thanksgiving day. The only open dates are October 28 and November 11, these being the dates formerly filled with the two institutions recently dropped. Director Macklin is already in correspondence with other strong institutions and it is believed that these may soon be filled with strong teams.

Even should the schedule indicate a lean year in football it seems to be the general opinion in athletic circles that such is to be desired to a more attractive schedule, replete with games with institutions where the recognized proper standards of scholarship are not maintained.

One deplorable feature of negotiations that have been pending for some time is that it is impossible to arrange a date with Ohio State University. Before Director Macklin arrived, the O. S. U. authorities went ahead with their schedule and filled the only two available dates with games with Cincinnati University and Oberlin. The only open date on the Buckeye schedule is November 25, but as this comes but

four days before the contest with the Little Giants on Thanksgiving day, Coach Macklin discreetly refuses to take on such a dangerous foe as O. S. U. at that time. There is a probability, however, that a game will be arranged in 1912, although it is universally deplored that a contest could not be arranged for next fall, especially as the overtures came from Columbus.

IONIAN VALENTINE PARTY.

The winter term Ionian party was held in the Agr. building on Saturday evening Feb. 11. The main room and reception room were decorated with college and society pennants and with hearts in honor of St. Valentine. The programs were in purple with white lettering and had on the front cover a heart pierced by an arrow.

The grand march was led by Mr. L. R. O'Neal, president of the society, and Miss Thorburn, followed by Mr. L. W. Read and Miss Muellenbach. During the feature dances the light was furnished by four large red hearts. Punch was served by the Japanese member, Mr. Kawada, who played the part of Cupid with his bow and quiver of arrows. Favors consisted of dainty boxes filled with tiny candy hearts.

The regrettable absence of Prof. and Mrs. Eustace was ably filled by Mr. and Mrs. John Bowditch, who with Dean and Mrs. Bissell were very pleasant patrons. The music of the college orchestra added the finishing touch to Cupid's flying visit.

TAU BETA PI INITIATION.

The following juniors, who have shown the essential qualities of good scholarship and fellowship, have been initiated into the mysteries of Tau Beta Pi: L. J. Knapp, H. Groothius, H. E. Bone, A. Iddles, R. J. Tenkonohy, H. W. Schneider and L. O. Benner.

Feb. 9 the public initiation took place, which consisted in attending chapel service, surveying, and securing statistics on library attendance. The ritual was given Friday night, after which a banquet was served in honor of the initiates at Club G.

TOASTS.

Dean G. W. Bissell, "Transit-man."

Prof. A. R. Sawyer, "Tripod." M. F. Johnson, "The Graduated Circle."

H. H. Musselman, "The Line of Sight."

A. Iddles, "Observations."

R. E. Brightup, "Records."

Tau Beta Pi is in a flourishing condition. Twenty-four chapters now exist in the best engineering schools of the country, extending from the Atlantic to the Pacific.

FARMERS' CLUB.

Tuesday evening at the usual time Mr. W. W. Shanor spoke before the club on "Alfalfa in the West." He gave a short history of this crop, telling of its migration from Asia, its native home, to Italy, Spain, South America, and then northward to the United States. For some time it was lost to American agriculture, but now it has

again come into favor practically all over the United States.

He spoke particularly of this crop as it is grown on the irrigated areas in Wyoming at the foothills of the Rockies, giving in detail the steps from the time the "virgin" soil is broken up until two years later the first crop of hay is harvested. He also mentioned the different methods of harvesting this crop in that country by means of the "Buck rake" and stacker. It is needless to say that the talk was very much appreciated by all present.

RESOLUTIONS.

Whereas, Almighty God, in his infinite wisdom, has seen fit to summon from this life the father of our classmate; be it

Resolved, That we, the class of 1911, extend to Ivan J. Clizbe our sincerest sympathy; and be it further

Resolved, That a copy of these resolutions be inserted in the *Holcad* and the college RECORD.

V. T. BOGUE,
B. W. KEITH,
Committee.

MILITARY.

The winter term military on Saturday evening was enjoyed by about 100 couples. Baker's nine piece orchestra furnished the music. The decorations were in the national colors and in one corner a soldier's tent was pitched in which were exhibited the regulation "shake down beds." In the opposite corner a shelter tent was set up.

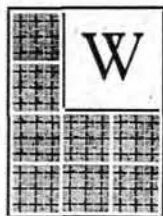
The grand march began promptly at 7:30 and was led by Col. McKibbin and Miss Ruth Mead, and Lieut. Col. Baldwin and Miss Bessie Lee.

Just before the last dance the lights were turned off and taps (the soldier's good night) were sounded. Pres. and Mrs. Snyder and Prof. and Mrs. Vedder were patrons.

COACH MACKLIN AND TRAINER KRANZELINE BOTH OF PENN. STOCK.

Relations between Michigan and M. A. C. should be close and forever friendly, especially as Dr. A. C. Kranzeline, the popular athletic trainer at the University, and Coach J. F. Macklin are from the same university—Pennsylvania—and both have been closely associated in the east since leaving college. When the Michigan trainer was in college, he copped a world's track record for every finger of one hand and for most of the fingers of the second. As a hurdler, sprinter, and all-round track and field star, few athletes could successfully compete with the successor to Keene Fitzpatrick. This was before Coach Macklin's time at Penn. although the two became quite well acquainted nevertheless. While Kranzeline was at Mercersburg and Coach Macklin was at Pawling, the teams of the two friends often competed for laurels, and rivalry was keen between the former Pennsylvania stars.

Miss Rosabelle McDevit spent Saturday and Sunday with her grandmother, in Detroit.



WE make a specialty of providing everything in the way of fine stationery, announcements, invitations, programs, etc. Our facilities are complete for Designing, Engraving, Printing and Binding Class Publications and College Annuals

Robert Smith Printing Company

Washington Ave. and Ionia St.

Lansing

DANCER-BROGAN CO.

LANSING'S LEADING STORE

Latest Styles in Ladies Suitings
and Millinery

LARGE LINE OF FINEST FURS

BETTER

HERE YOU WILL FIND FURNISHINGS JUST A LITTLE NEWER — JUST A LITTLE BETTER — THAN THE REST.
WE CATER TO THE COLLEGE TRADE. THE BEST OF EVERYTHING FOR THE "EDS AND CO-EDS."
LADIES' SILK AND LACE WAISTS AT COST
OVERCOATS AT COST.

ELGIN MIFFLIN

"GOOD THINGS TO WEAR"

Don't Borrow

When you can better afford to buy.

Common Razors @ \$1.00 to \$1.75
Ever Ready Safety Razors @ \$1.00
Gillett Safety Razors @ \$5.00
Razor Hones @ 50c
Razor Stropps @ 50c to \$2.00

You will be satisfied.

Norton's Hardware

111 Washington Ave. S.

College Buss Headquarters

EVERY KIND OF

FURNITURE

FOR YOUR ROOM

Cots Folding Beds
Mattresses

Book Cases Desks

ALL GOODS DELIVERED FREE

M. J. & B. M. BUGK

ABOUT THE CAMPUS

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

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

Prof. Pettit 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. 21-24. 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 22d to give those of the class who care to attend an opportunity to do so.

Mrs. Marguerite 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 of 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.

Holden 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. F. Jenison, Miss Annie Grant and the Misses Cowles, 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 convent work, hand made laces and embroidered garments of the last century, an ancient "sampler," and many examples of modern American needle work. Miss Coad, 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.

Miss Melita Carstens and Hazel Kellogg, of Grand Rapids, were guests at the military.

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

A. W. Wilson, '07, 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 Tau 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 employe 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 Bagulo, 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 Laneo, stationed at Lake Laneo, on the Island of Mindano. 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 the past week.

Prof. Shoesmith, Messrs. F. A. Spragg 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 Pratchner, '11, led a very interesting meeting of the Y. M. C. A. on Thursday evening. His theme was "Wasted 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, 20 per cent.; dendrology, 15 per cent., and general forestry, 50 per cent. Beginning this year the subjects are rated: Silviculture, 20 per cent.; forest management, 10 per cent.; forest protection, 5 per cent.; forest products, 5 per cent.; lumbering, 15 per cent.; dendrology, 10 per cent.; engineering, 10; economics and law, 5 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.

SOME PRESENT DAY PROBLEMS IN TECHNICAL EDUCATION.

Michigan Engineering Society, Lansing,
January 10, 1911.

G. W. Bissell, East Lansing, Mich.

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 to the present occasion. It is proposed to consider only a few, those whose solution is far reaching and determining in effect on the efficiency of the 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 entirely and may thus determine within limits the intellectual attainments and general fitness of the applicants. The vast 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 efforts to educate the secondary schools to higher or better attainments by establishing a list of "accredited schools" which in theory is revised from time to time upon the basis of visits of inspection or the records of the students during the college course. This problem of correlation of the secondary school and the college simplifies itself as the college increases in strength of numbers, reputation and endowment, or support to a state of independence, and the school is then able to specify the qualifications of applicants for admission on desired lines. The average technical school is not thus independent. A few are. Therefore there is a lack of uniformity in entrance requirements which might be a cause for regret if the success of a technical curriculum depended solely upon the mental preparation of the entrants, which the writer does not believe to be the case. The writer is convinced that the age of the matriculate is an important factor in his eligibility for entrance to a technical course, and specifically that 18 or 19 years should be the minimum age for matriculation in a technical college and also that the young man should have had, between high school and college, a year or more of practical or business experience to give him the proper concept of the value of his own and other people's time and money and of the importance of tact and common sense in the affairs of life.

The writer also believes that it would be desirable to subject the candidate for admission to a technical school to what, for want of a better term, may be called a "vocational examination" by which his probable fitness, further than the present criteria can do, should be revealed.

The absence of such a test in the present state of pedagogical science

is responsible for the lamentable and recognized fact that many students get what is really the wrong kind of training and thus waste their time and that of the teaching fraternity and of those to whom the latter should give their undivided attention, those who are really destined for the advantages offered by the schools.

It is also important to secure students whose attitude towards college work, which is essentially academic, even in a technical school, is sympathetic and untainted with commercialism.

The first problem might then be stated to be the securing of matriculates well grounded in the studies of the secondary schools, particularly mathematics and English, more mature in years and experience than can be expected when admission at 16 years of age is granted, and of a temperament and natural aptitude for the vocation for which the technical training of the college is intended to be preparatory and anxious to learn for the sake of learning.

Another problem of the technical educator is furnished by the curriculum or course of study; this problem naturally subdivides into those of (a) subject matter, (b) its presentation and (c) its administration.

The subject matter may and does vary widely and is much discussed 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 broadened by a liberal admixture of the humanities? Shall it be four, five, or six years in length? Shall it be co-operative, as in the Cincinnati or similar plant? Shall the graduate receive the bachelor or the professional degree? 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 put to himself the query, "What are the specifications of a technical graduate?" The writer thinks that the engineer graduate should comply with the following requirements:

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

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

(c) His mental equipment should consist of

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

(e) Habits of accurate observation and of

(f) Logical reasoning and generalization,

(g) Some initiative in research,

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

(i) The methods of design and computation commonly employed,

(j) The power to express himself confidently, clearly and forcibly, both verbally and in writing, in public and in private, particularly in his mother tongue and

(k) Such a knowledge of the history and social and economic problems of his own and former 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.

New College Clothes for Young Ladies.
Wool and Silk Dresses.
Fur Coats. Suits.
New Curtains and Rugs.

SIMONS DRY GOODS CO.

These specifications are very inclusive and evidently some of the attributes listed cannot be conferred by schooling. But if the real significance of the verb "to educate" is caught, the difficulties disappear if also the attributes of the teacher are on the proper plane. This point will be discussed later.

(Concluded 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.

THE RIPLEY & GRAY
PRINTING COMPANY

Engravers Printers Stationers

LANSING, MICHIGAN

WE are especially well equipped to supply you with anything you may need in the line of
CALLING CARDS, DANCE
AND SOCIETY PROGRAMS

Lawrence & Van Buren
Printing Company



Lilley
College
Uniforms

The majority of American colleges wear them because skilled uniform tailors make Lilley Uniforms from strictly all-wool materials that will give longer wear and hold their shape, fit and look better than any other uniform.

Write for Complete Catalog.

The M. G. LILLEY & Co.
COLUMBUS, O.

DIRECTORY
LANSING BUSINESS AND
PROFESSIONAL MEN.

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

BARBERS.

COLLEGE BARBER SHOP.—In Bath House, Andy—Bell—Ernie. You get the best work here. Try it and see.

BOOKS AND STATIONERY.

A. M. EMERY, 116 Wash. Ave. N. Books, Fine Stationery, Engraved Calling Cards, Fountain Pens, Pictures, Frames, Fine Framing a Specialty. Up-to-date styles. Cut Glass—cut in Lansing.

BOOK BINDERS.

GEO. G. BLUDEAU & CO.—Bookbinders, account book makers, paper ruling, library and fine art bindings, file boxes, map mountings, albums, pocket books, etc. Citizens' phone No. 489. In City National Bank Building.

BOOTS AND SHOES.

WOODWORTH SHOE STORE.—115 Washington Ave. N.

CROCKERY AND GLASSWARE.

H. H. LARNED.—China, Glass & Lamps, 105 Washington Ave. S.

CLOTHING.

H. KOSITCHEK & BROS.—Clothing, and Furnishings, 113 Washington Ave. N.

ELGIN, MIFFLIN.—Ladies and Gentlemen's Furnishing Goods. See ad.

LOUIS BECK.—Clothing, Gents' Furnishings, Hats and Caps, 112 Washington Ave. North.

DENTISTS.

N. H. MOORE, D. D. S. Office 411-413 Hollister Building, Lansing, Mich. Citizens' phone. Automatic 9469.

D. E. PARMELEE, Dentist, 117½ Washington Ave. S., Lansing, Michigan. Automatic phone, office 3402; residence, 3403.

J. E. STOFFER, D. D. S. Office 208-5 City National Bank Bldg. Automatic phone 561; Bell phone 61. Former M. A. C. student.

DRUGGISTS.

ROUSER'S CAPITAL DRUG STORE. Up to date. Corner store. Opposite Hollister Block.

DRY GOODS.

DANCER, BROGAN & CO.—Lansing's Leading Dry Goods Store, 119-121 Washington Ave. N.

SIMONS DRY GOODS CO.—104 Washington Avenue South.

ELECTRICAL SUPPLIES.

CAPITOL ELECTRIC ENGINEERING CO.—Full line of Electrical Supplies, including students' shades and cords, carbon, tantalum and mazda reading lamps, 117 E. Michigan Ave.

FURNITURE DEALERS.

M. J. & B. M. BUCK.—Furniture, Corner Washington Ave. and Ionia Street. See ad.

HOTELS.

WHEN IN DETROIT Stop at the Madison Apt. Hotel. The popular place for state visitors, shoppers, etc. Pleasant rooms. Beautiful cafe, moderate rates. Mrs. Elizabeth Brown, Mgr.

HARDWARE, STOVES & TINWARE.

NORTON'S HARDWARE.—General Hardware, Tinware, Granite, Cutlery, Stoves, etc. 111 Washington Ave. S. See ad.

JEWELERS.

E. M. BENNETT—Watchmaker and Jeweler. Work called for and delivered. Residence, fourth house south of The House, Evergreen Ave., East Lansing.

MANUFACTURING AND HAIRDRESSING.

MRS. O. T. CASE.—Manufacturing, Shampooing & Hairdressing Parlors. Switches made of cut hair or combings, also colored and renovated to look as good as new. The Franco-American Hygienic Toilet Requisites a SPECIALTY. Automatic phone 551. 220½ Washington Ave. S.

PHYSICIANS.

DR. OSCAR H. BRUEGEL. Hours, 7 to 8:30 a. m.; 2 to 4 and 7 to 8 p. m. Sundays, 12 to 1 and 5 to 6 p. m. East Lansing, Mich. Citizens' phone 1344.

DR. H. W. LANDON, East Lansing, Mich. Office hours: 7 to 8:30 a. m., 12:30 to 2 and 6:30 to 8 p. m. Sundays, 10 to 11:30 a. m., 7 to 8 p. m. Citizens' phone 9228.

PRINTING.

ALLEN PRINTING CO.—111 Grand Avenue south. Printing and office supplies. Bell phone 1094. Automatic phone 4006.

ROBERT SMITH PTG. CO.—Cor. Washington Ave. and Ionia St.

SHOE REPAIRING.

TRY KENDALL'S SHOP for Shoe Repairing. All work guaranteed. Machine or Hand Sewed Soles. Rubber Heels while you wait. Fine line of Confectionery Walter's old stand, Michigan Ave.