

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 16

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

NO. 25



RECENT PROGRESS IN EUROPEAN AIR NAVIGATION.

Mr. W. A. Blonck, an engineering expert from Chicago, gave a very interesting and instructive talk on dirigible balloons before the Engineering Society, Tuesday night. Mr. Blonck showed an intimate knowledge of his subject, having visited Europe a short time ago especially for the purpose of learning the progress made in the commercial use of dirigibles. He spoke of his personal experience in the air in trips of four hours' duration over the historic spots of Germany. Mr. Blonck accounted for the great advancement along these lines, by the perfection of the gasoline engine and the way in which the Germans have attacked the problem. It appears that the perfection of the dirigible is being brought about by the labor of corporations of the military, which consists of rich officers, devoting their time to what seems to them to produce great and valuable results for their country.

The lecturer illustrated his talk with views of the various types of machines in flight, and in detail. He explained the compartment construction of the Ziplin, which, with its rigidity compose the principal advantages of this type. The semi-rigid and non-rigid "boats" were taken up in order, the first of these, seemingly, being the one most generally in use. The navigation of these boats is, contrary to the general belief, not dependent to a large extent upon the "lift" of the gas, but is accomplished dynamically, the gas being only sufficient to give a certain amount of buoyancy.

The reason for the lack of dirigibles in America is because the cost of hydrogen is prohibitive, while in Germany, this gas is the by-product of many electrolytic processes.

Mr. Blonck traced the misfortunes and successes of Count Zippilin, Germany's national hero, who, when all other means of carrying on his experiments failed, received by public subscription the sum of \$1,500,000. This shows with what energy and hope the work has been carried on in Germany. He touched upon the development of the semi-rigid type by the French, since Santos-Dumont astonished the world by circum-

navigating the Eiffel Tower. A striking example given was that of the Clement Bayard machine which recently flew across the English Channel, maintaining a speed of 37 miles per hour.

In hearing this lecture one was impressed by the great strides the experimenters have accomplished in the building and housing of these machines, in the performances with them, and by the safety which has so far accompanied the progress to perfection.

The lecturer spoke briefly upon the aeroplane. He showed the types—monoplane and biplane—but he spoke of the three deficiencies which, he believed, precludes the general usefulness of the same, namely: high speed, lack of automatic stability, and lack of development of a multiplicity of engines. He expressed his belief that the aeroplane would find its field, in use as a scout in war, not as an aggressive enemy. As a result, the strategy of our future wars will be entirely changed.

This lecture gave a very clear idea of just what has been accomplished in Europe and where it all tends, without a confusion of the usual technicalities.

A. N. H., '14.

ELECTRICAL SHOW.

The electrical show, held in Engineering Hall last week, was visited not only by practically all of the college people, but by a large number of our Lansing friends. The various exhibits were found in the basement and on the first and second floors, and all proved of interest.

In the basement were found a display of dynamos, the automatic telephones, and the ex-Ray machines. On the first floor a variety of electrical conveniences, such as irons, toasters, fans, vacuum cleaners, power washers, sewing machines, etc., were shown, as well as a large assortment of the various incandescent lamps and fixtures. Here was shown also what may be done with a private plant. Not only was the room lighted with the electricity manufactured here, but an example of how this power may be used in the home was very

nicely illustrated in water heaters, electric irons, cleaners, washers, wringers, etc.

The intricacies of wireless telegraphy were explained by Mr. Laycock, and a display of electrical toys commanded the attention of those who visited the next floor.

As the exhibit lasted three days, visitors were coming and going constantly, and those in charge were kept busy demonstrating the various uses to which electricity may be put.

Great credit is due the students in electrical engineering, who arranged for and carried on the exhibit, and every person who visited the building last week surely appreciated the opportunity offered.

The equipment loaned by the Capital Electric Co., S. A. Rice, National Magneto Co., and the Lansing Plating Works by Mr. L. M. Maynard, added much to the exhibit and was duly appreciated by the boys.

SACRED CONCERT.

Two years ago the band inaugurated the custom of giving an annual, free, sacred concert, to be given the latter part of each winter term. This year the concert will be given in the armory next Sunday afternoon, March 19th, at 3 o'clock, and the program promises to be fully as enjoyable as the previous ones. The band will be assisted by the M. A. C. choir; Miss Webb, soprano; Professor Patten, baritone; and Professor Killeen, tenor.

The program will be as follows:

PART ONE.	
War March of the Priests from "Athalia"	Mendelssohn
Serenade, Cornet Solo	Gounod
MR. L. G. JOHNSON.	
In Heavenly Love Abiding ..	Batchelder
PROFESSOR PATTEN.	
Gloria	Mozart
M. A. C. CHOIR.	
PART TWO.	
Trinity	Tobani
Great Heavenly Choir	Jordan
MISS WEBB.	
The Last Hope	Gottschalk
Solo	Selected
PROFESSOR KILLEEN.	
In the Great Beyond	Brooks
Evening Prayer	Steffins

ALUMNI

'69.

James Satterlee writes from Los Angeles, Calif., under date of Feb. 27, "We are spending a few months in the land of sunshine and flowers and we are enjoying our sojourn greatly. We occasionally see some of the old boys from M. A. C. Have seen Rodney Abbot from San Gabriel, Harry Reynolds of Pasadena, and Clarence Simonson, who has removed here from Holly, Mich. Southern California is having great prosperity from the influx of tourists and permanent residents from the east. We expect to return to Lansing early in May."

'73.

A big fair was recently held in the Province of Moro, P. I., and we are in receipt of a copy of the *Manilla Times* presenting a map of the fair grounds and photos of many prominent military and business men through whose efforts the fair was made possible. Maj. John P. Finley, '73, 27th Inf. U. S. A., district governor of Zamboangos, is among the prominent men of the islands.

'87.

H. L. Chapin and wife, a real estate dealer in fruit lands of Portland, Oregon, was a college visitor yesterday, having been called to St. Louis, Mich., on account of the death of a brother. He had not been on the campus before for 20 years. Mr. Chapin was one of the M. A. C. men instrumental in forming the recent Portland association.

'90.

William W. Morrison is president of the Continental Trust and Savings Co. of Toledo, Ohio, and also president of the First National Bank of Bryan, Ohio. His address is 2044 Collingwood Ave., Toledo.

'91.

Willis Alfred Fox is head of the Department of Teachers' Training Tri-State College, Angola, Ind.

'96.

Clare E. Meyers is a farmer and ranchman at Pine Lake, Alberta, Canada.

'02.

T. G. Phillips is landscape architect and forester in Detroit with business office at 704 Breitmeyer Bld. Mr. Phillips is a member of the American Society of Landscape Architects and Detroit City Plan and Improvement Commission.

'03.

Jesse M. Churchill, surveyor, is engaged in irrigation work at Dietrich, Idaho. Mr. Churchill has also interested himself in the real estate business.

'05.

Robert F. Bell is detailer and checker of the Brown Hoisting Machinery Co. of Cleveland, Ohio. His residence address is 10524 Gooding ave.

The M. A. C. RECORD

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TUESDAY, MARCH 14, 1911.

WASHINGTON ASSOCIATION.

The Michigan Agricultural College Alumni Association, Washington, D. C., held a meeting Tuesday evening, March 7, at Freund's Hall, 815 10th St., N. W. After a short reception, a banquet was served to the members present. Mr. Dick Crosby, '93, acted as toastmaster, the toasts being responded to by Prof. H. Thurtell, '88, on the "Lure of the West;" Mr. W. J. Meyers, '90, "Agricultural Training as a Basis for Statistical Investigations;" Mr. J. H. Tibbits, '73, "The Value of an Agricultural Education in the Diplomatic Service," and Mr. Wm. Taylor, '88, "Pomology as a Preparation for Administration."

The witty and convincing remarks left no doubt in the minds of the hearers that an agricultural training has its advantages.

Officers elected are as follows:

- Clarence A. Reed, '05, President.
- Ralph Carr, '08, 1st Vice President.
- Mrs. Dayton Guernsey, '05, 2d Vice President.
- Herman Schreiber, '04, Treasurer.
- Cora Feldkamp, '05, Secretary.
- Executive Committee, J. H. Tibbits, '73; Mrs. C. A. Reed, '95, and L. M. Spencer, '06.

After business adjournment, the remainder of the evening was spent in playing five hundred.

List of members present:

- James H. Tibbits, '73.
- Donald McPherson, '74.
- Wm. A. Taylor, '88.
- Mrs. Wm. A. Taylor.
- Ritchie P. Taylor.
- Henry Thurtell, '88.
- F. N. Clark, '89.
- Wm. J. Myers, '90.
- Mrs. Wm. J. Myers.
- Dick Crosby, '93.
- Mrs. Lillian Wheeler Crosby, '93.
- Charles P. Close, '95.
- Mrs. Chas. P. Close.
- John E. W. Tracy, '96.
- Homer C. Skeels, '98.
- Matt A. Crosby, '02.
- H. J. Schneider, '04.
- Arthur Adelman, '04.
- Mrs. Arthur Adelman.
- Clarence A. Reed, '05.
- Mrs. Katherine McNaughton Reed, '05.
- Cora L. Feldkamp, '05.
- Ralph J. Carr, '08.
- Mr. Ralph J. Carr.
- Wm. J. Hoover } Guests.
- Louis Hoover }

It was learned with regret that Dr. Briggs, president of the association, and Mr. Schreiber, chairman of the executive, had both been unexpectedly called away from the city, and were therefore unable to enjoy the pleasant evening that they had planned.

HORT. CLUB, MAR. 8.

Mr. O. K. White gave a very interesting talk on the land frauds in northern Michigan, entitled "A Square Deal in Dirt." He said that agriculture was once a dominant feature in America. This was superceded by manufacturing, and now men are returning to the soil. There are now two consumers to one producer, the farmers are making large profits, there is unrest in the cities, and one of the results is land booming in northern Michigan. North of Bay City and Muskegon cut over timber land that is absolutely worthless has reverted to the state. The soil lacks humus and the moisture cannot be conserved. This land is sold to real estate promoters, who retail it out to men with small capital.

In one year 1,112,000 acres reverted to the state for non-payment of taxes. It was, in turn, sold as homesteads and very soon 45 per cent. of it had again reverted to the state. In these sand barrens, there are no social advantages and many of the people are near-outlaws. A development company in Roscommon county advertises to sell land that will raise more corn than any other place in Michigan, Ohio or Illinois for \$15 per acre.

The Newaygo Land Co. publish pictures of orchards, growing in other localities, and thus mislead many prospective fruit farmers. White blown sand is often sold to Chicago people, and one hard-working man bought a happy home in Higgins Lake where he expected to raise fruit and strawberries. All the wheat in a township was threshed near the depot of a certain town, that the straw stack which resulted might advertise that locality as a great region for wheat. Actual investigation proved the average yield about 2 1/2 bu. per acre. Mr. White's talk was very instructive and was enjoyed by all.

R. G. K.

FARMERS' CLUB.

Prof. Ryder gave a very interesting talk on European agriculture. He told about various crops raised and the different methods employed in England, France, Germany, Switzerland, and Italy, as they impressed an American tourist in those countries.

Questions were asked which helped to bring out many details, both of the agricultural and horticultural methods.

THE ROSE-MAIDEN.

On Friday evening, March 10th, "The Rose-Maiden," a cantata by Frederic Cowan, was delightfully sung by the M. A. C. chorus. It was enthusiastically received, and the audience were loud in their praise of Prof. Killeen's ability as a conductor. The soprano solos were well adapted to the lyric quality of Mrs. Roy Moore's voice. Miss Gilray sang the contralto solo with great feeling. The tenor solos were pleasingly sung by Mr. Hamilton, particularly the one entitled "The Sleep of Even," and Mr. Patten's solo was the most dramatic of the performance. Great credit is due the accompanist, Miss Freyhofer, whose sense of rhythm and delicacy of touch were displayed to great advantage.

BAND GOES TO MASON.

Last Tuesday evening the band, under the direction of Professor Clark, went to Mason by special car to give a concert under the auspices of the Mason High School Union. The entertainment was given in the Mason Opera House, and the large audience present gave evidence of their appreciation of the work of the band by repeatedly encoring the numbers of the program. Professor King, who was on the program as reader, missed the special car and did not reach Mason until the program was half over. However, when he did arrive on the scene, he made up for lost time, and gave several readings, which were very well received. It is to be hoped that other similar engagements may be arranged for the band, as it not only advertises the college in a good way, but also brings added interest in the work to the members of the band.

HORT. TRIP.

Chaperoned by Prof. Eustace, Prof. Halligan and Mr. Gunson, the Junior and Senior Hort. men visited Grand Rapids, March 3 and 4. Friday night they attended the Arcadians, an English musical comedy at Power's Theatre, and Saturday morning started on a tour of inspection of the greenhouses. The first visited belongs to S. J. Perry who conducts a general business, but specializes in Grand Rapids lettuce. Eugene Davis, one of the best greenhouse men in Michigan was next visited. Mr. Davis is the originator of the famous Grand Rapids lettuce, and the Davis cucumber.

John B. Nellist, '96, raises sweet peas as a hobby, and has some very nice houses. Mr. Goebel, superintendent of the Grand Rapids park system, went through Creston and John Ball Park with the men. W. C. Trout, '09, is the first assistant to Mr. Goebel, and Hugh Lynch, '10, is taking charge of the forestry work in the parks. Henry Smith conducts one of the largest greenhouse establishments in the middle west. He has been in the business since 1874, and now has five acres under glass. C. W. Garfield, '70, was also visited. Horticulture is his hobby; he is very enthusiastic over the work, and a loyal friend to M. A. C. The fellows returned Saturday night, after having enjoyed a very entertaining and instructive trip.

ALFALFA BREEDING AT M. A. C.

Those who read an article, under this heading, published in the RECORD, December 6th last, will recognize this as chapter two. Others may need to read chapter one to fully understand the following. The value of alfalfa as a hay crop, the difficult seed problem that we now face, and an outline of the alfalfa breeding work since 1906 has been given.

Since writing chapter one the seed from the nurseries has been threshed. Plants that had stood the ice sheet February, 1910, and also were high hay producers during the summer, had been gathered individually. These were threshed separately. As a result, we found

one of these also producing 41.2 grams of seed. Eight plants produced over 30 grams of seed. Forty-two plants produced over 20 grams of seed, and 104 plants produced over 15 grams of seed in 1910. The 2,258 plants that survived the ice sheet averaged a production of 11.6 grams of seed last year. After making the individual selections the balance of the rows were gathered in and threshed. This enabled us to get at the averages and also furnished us with valuable small lots of seed to start a few farmers along the line of the production of alfalfa seed in Michigan.

As mentioned before, the nursery was set out with hills in check-row 2x2 ft. In other words a plant occupies four square feet. This is a very thin stand, but let us figure out what this means on the basis of an acre having one such a plant on each four square feet. If the plants average 11.6 grams per plant, this equals 4 2-3 bushels of seed per acre. In like manner 15 grams equals 6 bushel per a.; 20 grams equals 8 bu. per a.; 30 grams equals 12 bu. per a. and 40 grams equals 16 bushels of alfalfa seed per acre. A few plants like our better producers show the future of the alfalfa seed breeding work in Michigan, as the object of the work is to select the best from the best throughout a number of generations until we have strains that will be uniformly high producers of seed as well as large quantities of hay.

But let us see what is the probable value of the seed now obtained from the nursery, 1910. This seed has been raised on sand. Observation in other nurseries show that a stiffer soil will not produce nearly as much seed. Again, this seed was raised where the rows are two feet apart. Observations where the seed was drilled in thicker, on light soil also, show lower production of alfalfa seed. From this we see plainly that to raise large quantities of alfalfa seed we must have light sandy soil, and must have a thin stand. Convenience in keeping the patch clean and in being sure of obtaining pure seed indicates drilling the seed in rows two feet apart on sand, or sandy loam. We must look out for inoculation, perhaps lime and some such problems, but the results from the nursery show that we can reasonably expect a crop of hay and four bushels of seed per acre off of such a planting in its second year. Too, this should also produce such a crop for about two more years as alfalfa does not kill out when it goes to seed, as clover does. Three pounds of seed is enough to drill in an acre in rows two feet apart. Supposing a farmer receives enough of our seed to drill a half acre this spring, 1911. He would need to fit the sandy soil early to start the weeds. By May first he should have been able to start and kill the weed seeds in the surface sand. About May first the alfalfa seed should be drilled in at least an inch, or safely under the dry surface sand into the moisture. The patch would need little attention then until the plants get up well and the weeds begin to show their heads above the alfalfa. A cultivation of the rows should then be attended to that they may go into the fall in clean condition.

On the following year (1912) a crop of hay should be cut off of the piece about the tenth of June. The

(Continued on page 4.)

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ABOUT THE CAMPUS

Prof. Sawyer was on the sick list several days last week.

The freshmen oratorical will be held in the chapel Friday evening of this week. There will be six or more contestants.

Mrs. C. L. Bemis has purchased the F. C. Kenney property on the Delta, and will move here with her son early in April.

Mr. Chas. W. Brown, of the bacteriological department, was at Armada last week, looking into some troubles affecting the cream at that place.

The Mt. Pleasant Normal carried on a Farmers' School for one week Mar. 6-11, in charge of Prof. M. A. Cobb, former M. A. C. man. A large number of the speakers were from among our own faculty.

The Athletic Carnival promises to be as great an attraction as ever this spring. Each society and club will be represented in some fantastic style, and all combined will produce the best show ever offered at M. A. C. Please to attend. The date is April 8.

The annual championship indoor athletic meet will be held in the Light Guard armory, Detroit, Friday, March 17. The meet is held under the auspices of the Y. M. C. A. athletic association. M. A. C. will be represented by the following team: Shot put, Blue; high jump, Lord; 400-yd dash, Garvey; low hurdles, Cortright; mile, Rosen and R. A. Warner. The team will leave Friday at 12:45, and return Saturday morning at 11:00.

Miss Ara Gliem, of the class of '12, visited college friends Friday and Saturday.

The Sororians held a 10 o'clock in the society room in the Women's Building, Saturday, March 11.

Miss Higgins, of Omaha, Neb., will spend the summer months at the home of her sister, Mrs. Bessey.

Mrs. Cameron gave a reception on Wednesday afternoon for a friend of her daughter's who is visiting her.

Mr. Gunson is taking a much needed vacation. He is spending two or three weeks with friends in North Carolina.

Instructor W. H. Parker has resigned his position as instructor in chemistry to take effect April 1. Mr. Parker will assume the management of his father's farm near Flint.

Miss Mable Nickson, for some time stenographer in Prof. Anderson's office, began her duties in Pres. Snyder's office this week. Miss Louise Landstrom, of Lansing, takes Miss Nickson's place in the Agricultural Building.

The following officers have been elected by the Eupomian Literary Society, to hold office during the spring term: President, H. E. Dennison; Vice President, C. D. Curtiss; Secretary, G. C. Sheffield; Treasurer, Chas. S. Lord; Marshal, Guy H. Smith; Editor, N. D. Simpson; Registrar, D. A. Spencer; the Registrar to hold office for one year.

LOST.—A fountain pen between Women's Building and Botany Laboratory. Frances Kirk.

F. T. Sackrider, with '04, a prosperous dairyman near Jackson, was among the number to take the one week course in dairy farming.

The Feronian Society elected officers for the spring term last Wednesday. They are: Helen Dodge, president; Laura Morse, vice president; Jeane P. Avery, secretary; Grace Mack, treasurer; Fanny Keith, marshal.

The Union Literary Society gave a banquet on the evening of the 6th in honor of K. D. Van Wagenen, winner of second place in the oratorical. Messrs. Gunson, Pyke, Baldwin, and M. F. Johnson each responded to a toast and at the close of the feed "Van" was presented with a beautiful silver cup upon which was engraved "Union Literary Society," "State Oratorical, K. D. Van Wagenen, 1911."

At the recent meeting of the State Board held in Detroit the contract for the addition to the chemical laboratory was awarded to Geo. F. Schmidt of Lansing.

Plans were also completed for holding the "graduate school" at M. A. C. during the summer of 1912. This is a school held at the various agricultural colleges and is designed especially for graduates of land grant colleges. Speakers are brought in from various parts of the country who talk on topics of interest. This school was held at Ames last year.

The freshmen again won from the sophomores in basketball, Thursday evening, 27 to 17. The former game did not cinch the championship as stated last week.

The baseball enthusiasts were able to do considerable practice work outside during the past week. An official call for players was made Saturday. Prof. Macklin has about 70 men from which to choose his squad.

The following named foresters took the civil service examination held in Lansing last week Wednesday and Thursday. Albert Frutig, H. L. Baker, J. F. Campbell, G. H. Collingwood, H. C. Hilton, R. P. Holdsworth, D. E. Wood, H. B. Wales, J. H. McCutcheon, C. W. McKibben, L. R. Queal, W. J. Sproat, Neil Van Horne, James Logan, and E. S. Keithley. F. G. Wilson is also taking examinations for state work in Wisconsin.

A letter from Prof. C. D. Smith to one of his college friends states that, while he had rather hoped to come back to the states at the end of his third year, he has finally consented to stay one more year with the people of Sao Paula. There are now in the school at Peracacada, of which Prof. Smith is director, 166 students, as against 45 three years ago, which is certainly gratifying. Under date of Jan. 29, the school had 75 students in the entering class and "more coming." Prof. Smith states that Mrs. Smith's health is somewhat better than it has been during the last few months.

INSTITUTE TRAINS.

The college, with the cooperation of the Grand Trunk, G. R. and I. and P. M. railroads, will run institute trains through Central Michigan the latter part of this month and the first week in April.

The train will consist of four express cars filled with apparatus, samples of grain, corn and alfalfa, spraying machinery and supplies, types of breeds of poultry, dairy machinery, samples of hog cholera, and tuberculosis and cultures of various kinds. Opportunity will be given to examine the exhibits, and the public is requested to bring in samples of milk for testing and of insects and plant diseases for identification and a remedy. Short addresses upon topics relating to farming, fruit-growing, and poultry raising by experts.

The Grand Trunk train on Mar. 20 and 21 will run from Shaftsbury and intermediate points east to Goodell's. On Nov. 22 and 23 from Vernon west to Nunica, and April 5 from Pavilion to Potterville.

The G. R. and I. will run from Clarion to Rockford, taking three days for the trip, March 30 to April 1, inclusive, and from Carlisle to Sturgis on April 3 and 4.

The Pere Marquette will run their train from Grand Rapids on the main line to Petoskey, and also from White Cloud west to Whitehall, and north from Whitehall to Hart. This trip will take five days, starting on Friday, March 24, and continuing March 25, 27, 28 and 29.

For full particulars concerning these trains, write Prof. L. R. Taft, superintendent of farmers' institutes.

DAIRY FARMING.

More than fifty dairymen attended the course last week, and the earnest questions and discussions proved that these men were deeply interested, and here to learn more of the better methods in breeding and feeding and of how best to care for their stock. The veterinary lectures and bacteriological demonstrations were thoroughly taken care of by Drs. Lyman and Giltner.

The following daily program was carried out:

- 8:00. Animal Breeding. A. C. Anderson.
- 8:55. Feeding Dairy Cattle. R. S. Shaw.
- 9:50. Sec. 1—Study of Dairy Cows. A. C. Anderson.
- Sec. 2—Babcock Testing. W. B. Liverance.
- 12:40. Sec. 2—Study of Dairy Cows. A. C. Anderson.
- Sec. 1—Babcock Testing. W. B. Liverance.
- 2:30. Tuberculosis (Lectures). C. E. Marshall.
- 3:25. Veterinary Lectures. R. P. Lyman.
- Monday—Anatomy and Physiology of the Udder.
- Tuesday—Physiology of Birth.
- Wednesday—Birth Diseases.
- Thursday—Birth Diseases.
- Friday—Emergencies.
- 4:20. Demonstrations. W. Giltner.
- Monday—Study of Specimens.
- Tuesday—Physical Demonstrations.
- Wednesday—Stable Hygiene.
- Thursday—Disinfection.
- Friday—Preparation for Tuberculin Test.

ALFALFA BREEDING AT M. A. C.

(Continued from page 2.)

patch should then be cultivated to insure clean seed on the second crop. The farmer could reasonably expect four bushels of seed per acre, or 120 lbs. off of his half acre. This should be worth more than \$15 per bushel, because it is Michigan grown seed. As three pounds of seed is enough to drill in an acre, when planted for seed production, this could be used to start a 40-acre field for commercial seed production. This would be in 1913. The first seed crop from this would be 1914. We would expect four bushels of seed per acre but suppose we only get three. This would be 120 bushels at \$15, worth \$1,800, besides a lay crop to pay for getting of the land into shape, cultivating, harvesting and threshing. The crop of the following, at least two years, should be just as good. This looks like good pay to the raiser. He would also be a benefactor to the state if he sells this seed to his neighbors. Alfalfa industry will be a success in Michigan when we can produce our own seed.

About a dozen lots of seed have been sent out to farmers who wished to start a half acre as mentioned above. Besides this there is still quite a number of envelopes containing the seed of an individual alfalfa plant selected as mentioned above. A number of farmers have received some of these intending to drill in a row from each lot and later observe which is the best. This enables breeders to find something suited to their own conditions. The station is willing to send out what remains to those who care to co-operate in the work of breeding alfalfa for Michigan. There is only enough for a few more left. First come first served. If you are a student drop into Room 214 Agricultural Building, or others may address Plant Breeding, Mich. Exp. Sta.

Two Chinese boys, P. K. Fu, of Kwong Tung, and K. C. Luke, of Canton, have arrived at M. A. C. and intend to enter college next term and pursue a regular college course. The young men have spent the past year in Valparaiso, and also had considerable English before coming to America.

The State Peace Oration Contest will be held at Albion on April 7. A preliminary contest will probably be held Monday, March 20, to select M. A. C.'s representative in this contest. Six colleges in the state will be represented. The prizes of \$75 and 50 for first and second places will be given by Messrs. J. H. Moores and R. E. Olds of Lansing.

The farm mechanics' department is in receipt of a number of copies of "Subsoiling with Dynamite" which is a pamphlet from the Du Pont Powder Co., stating the conditions governing a contest between students of the agricultural colleges of the United States. The nature of the contest is that of a report on some crop grown on a plot of ground, one-half of which is treated with dynamite. The first prize is \$300, in a contest open to agricultural college students from a group of twelve states. To those interested, one of the above mentioned copies of the rules of the contest is available at the farm mechanics' office.

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