THE RELATION OF ENGINEERING TO AGRICULTURE

EXTRACTS FROM AN ADDRESS BY DEAN G. W. BISSELL, PRESIDENT, MICHIGAN AGRICULTURAL COLLEGE, BEFORE THE ALUMNI ASSOCIATION OF MICHIGAN AGRICULTURAL COLLEGE.

An analysis of the daily life of the average American farmer of today, shows that he and his family depend largely upon the labor, skill and knowledge of those in other walks of life, for which make his lot to-day more en-

The engineer and the farmer have several points of contact. The most prominent is the increasing number of farm machines and devices which make farming more and more a business in which the farmer must keep up to date. The engineer and the farmer must be on speaking terms.

Transportation, communication, drainage and irrigation are the larger and broader points of contact between engineering and agriculture wherein the engineer renders material benefit to the farmer.

The various manufacturing industries which minister so largely to the professional and personal needs and refinements of farm practice and life depend to a large ex-

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LANTI DEBATE.

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AGGIES DOWN D. A. C. TEAM

EASILY.

Using the outside side kick almost completely, M. A. C. defeated the heavy D. A. C. team of Detroit by the one-sided score of 57-14. At the close of the first half M. A. C. had scored a total of 27 points and D. A. C. had failed to register a single score.

McGilvary abandoned the use of the forward pass, as the high wind made it very uncertain, but substi-

CLOSE SEASON IN A BLAZE

OF GLORY.

The M. A. C. record for the season is 8-1-0. Their only loss was to the University of Michigan by the one-sided score of 27-14. Of the eight victories two were played on the road.

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A FORESTER'S WORK, THE FIRST YEAR.

(Extract from a letter from A. R. Wilson, Forester, '98.)

"We were in Washington, D. C., just eleven days and Mr. Kiefer was appointed to the Arkansas Forest. Mr. Hopson to the Weiner, in Idaho, and I to the Columbia. Mr. Hopson and I were on the same train from Washington to Chicago, but there he took the Great Western and I took the C. R. & Q."

"I think I had the longest trip of any man in our class that left Washington. The headquarters of the Columbia was in Portland, which is 338 miles from Washington, the way I was sent. I was four days and five nights on the road, and didn't have to wait for trains more than five hours, all the way through.

"The government furnished us with transportation requests, both for fare and sleepers, so the only cash outlay that was necessary was merely in the dining car, and that, of course, was refunded. That made it pretty easy for us boys who were just out of college."

"The Columbia National Forest came into existence on July 1st, 1908. Formerly, it was a portion of the Pacific forest, and it seemed necessary that I should get acquainted with the various regions of the forest, and the personnel, and the conditions in general."

OFF FOR CHICAGO.

About 75 agricultural students left over the Grand Trunk Sunday and Monday morning for Chicago, where they will attend the Live Stock Show. The college sends no judge this year, nor does it exhibit any stock.

PAY OF COLLEGE GRADUATES.

"How much must a person earn after getting a college education?" The question is often asked, and best answered by saying: "Any amount. It depends upon the person."

"There has been so much of speculation regarding the salaries of college graduates and especially regarding the incomes of engineers and men of technical training that at a recent gathering of a class graduated ten years ago from one of the foremost technical colleges in the country it was decided to collect reliable information on this point. There were about 180 graduates in the class in question, and as they had become scattered in all parts of the country, and had taken up a great variety of business and of engineering lines of work, it was evident that the results would be of great value. Furthermore, they would provide information of a kind that people in general have much interest in, but can ascertain little about."

A college man's success, like that of any other man in the business world of today, must of necessity be judged largely by his salary, or by the amount of money that he can make. Here and there a man is to be found whose labors have given him the work of love, or one who keeps at his task largely for the glory or the honor that may be attached to the position that he holds, but such men are greatly in the minority.

Information blanks, asking for replies to certain questions covering location, business, etc., were sent out to all of the graduates of the college class referred to above. It was requested that the salary for the preceding year be marked on a blank card and returned in a separate envelope. Replies from countries in Europe were opened by a stranger.

Of the 180 requests sent out, 151 replies were received. These came from thirty states in this country, one reply each from Canada, British Columbia, and Mexico, and three replies from countries in Europe. Of the 151 men who answered, seventy per cent were married, and the married ones had a total of almost ninety-nine children. The great majority of the men were managers, engineers, or executives for successful manufacturing and business corporations, dealing with the work in electrical, civil, mining, and other engineering lines. A few were in business for themselves as consulting engineers, one was a lecturer, one a California ranch owner, and ten were in the service of the United States government.

These details are mentioned to show the wide-reaching and representative character of those whose replies form a basis of the statistics of salaries given here.

The lowest salary received was $72. The largest salary was $10,000. The following table shows the salaries for the last year, separated into divisions of $500 each, and..."
Military hop Dec. 4.

Christmas bazaar in chapel December 5.

The first military party of the season will be held in the armory Dec. 4.

Anna Thompson, with "no, was the ghost of college friends Saturday and Sunday.

H. C. Pratt and A. Sohey were at Syracuse University last week, attending a meeting of the Tau Beta Pi.

Annual football banquet to be held at Lansing's Reliable Store.

The horticultural department has an exhibit collection of apples from different parts of the country. One collection is from Iowa, another from Massachusetts, some from Michigan, and some from New York, and some from New England.

The farmers' institutes begin in January, and many students at their homes and 400 or 500 more at the State Agricultural Society. Prof's Taft and Eustace will talk to the students.

The reported case of foot and mouth disease in a herd of cattle near Lansing proved not to be malignant. So far there has been none outside of Wayne Co. in this state.

The entertainment at the chapel Friday evening was well attended. The program was well rendered, and many students at their homes and 400 or 500 more attended.

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Great Xmas Sale FURS

Our line of rich and beautiful Furs is now complete and if you are in need of Furs, Fur Coat you will do well in calling at this store as we are showing the Swellest and newest styles you have yet seen. We have marked everything in our great fur stock at special prices. Come and see this great display.

Fur Sets - $10 to $150
Fur Scarfs - $2 to $100
Fur Muffs - 85.50 to $50
Fur Coats - $50 to $125

FREE FARES TO LANSING.

Cameron & Arbaugh Co., Largest and best stock in the State.

RELATION OF ENGINEERING TO AGRICULTURE

(Continued from page 1.)

must look to large measure for the improvement of the farm life, especially in the direction of relieving it of its cloying and isolation. It is by no means claimed that the application of engineering science to farming is a panacea for agricultural ills. Engineering can only help by connecting the science with the practice of farming. A knowledge of the possibilities of so is of various kinds, their treatment to conserve their potency, of the principles of stock and plant breeding, a true perspective of the relation of labor and leisure, good business methods and acumen, ability to read human nature, a good disposition and common sense, are as essential to the farm as money and the material aids furnished by the engineering and other professions.

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