

OUR FACULTY
(Continued from Page 2.)

But (voltage) (Laminated) Hollister, Elect, Says we measure electrical juice by the peck.

(Parallel) (Kinetic) Slaymaker, designer, at making good drawings, is sure an old timer.

(Cylindrical) (Ellipsoidal) Rasmussen (ol-ogy), fills the poor Freshman with mid-night cramology.

(Cylindrical) (Lubricating) Dean is quite neat. He says steam is just water that's crazy with heat.

(Compression) (Expansion) (Quiz) (feet) Mickey, is quite fond of testing the strength of some hickey.

(Judge) (Nautical) Bridgman, is head of surveyors. Passes most of his class by the width of cross hairs.

(Elevator) (Benchmark) Kings land quite good in C. E. Is a good hearted prof like they all ought to be.

(Boiler) (Fuel) Raber, the analyzer of heat, says we don't get hot headed by roasting our feet.

(Arch) (Struct) Riddervold, designer of structures, is the best prof in the school to give you short lectures.

Prof. (Whittle) Schaft Payne, close to each student fingers, to see that no one shall get grease on his fingers.

(Theostat) (Watt) Goddard, our latest addition, is proving quite worthy of his good position.

(Burnt) (Edge) Bunting, on both benches and lathe, is teaching the Freshmen without whiskers to shave.

(Load) (Eulerum) Seaton, who rides farm machinery, helps (like) (Drainage) Wood to improve farm scenery.

(Crucel) (Cunning) Engberg, stranger to all Engineers, is known to us only by other's tears.

In our Mathematics, every one has his choice of instructors, or teachers, but we all rejoice.

If after two years work we have finished all Math, for the engineers' college is then a smooth path.

(Jacket) (Core) Grenau, with anvil, hammer and tongs, comes last, but not least, in this crude collection of songs.

You can talk of your Law, and your Medic degrees Being hard but they can't hold a candle to E's.

THE AGRICULTURAL ENGINEERING FIELD

The present time is the transition period of the farm. It is marked by the advent of scientific farming. We are turning from the bad wasteful methods of producing crops to the modern system of conserving farm resources. The solution of the this truly great economic problem is in the hands of the modern engineer more specifically of the agricultural engineer, and it is his field of study and investigation that I wish to consider in a brief way.

The first problem before the agricultural engineer is that of maintaining the fertility of the soil. This need is so obvious that there is no need for even a concrete example. Many farms in Nebraska, even if this state is new in agriculture, show that the crops of today do not equal those of a few years ago. The land contains certain elements necessary in plant growth. The plant takes up these elements from the ground and when the crop is removed the land is poorer by the amount of material taken from it. We must therefore return something to the soil to make up for the elements taken by previous crops. It is within the field of the agricultural engineer to show how to conserve the fertilizer

produced on the farms and how to apply it to the soil.

The next great problem is that of farm management as applied to the rotation of crops. Each crop takes elements out of the soil in a proportion peculiar to itself. Rotating crops varies this proportion. All crops require principally nitrogen and therefore in any crop rotation this depletion of nitrogen must receive consideration. Aside from commercial and other fertilizers nitrogen is most efficiently put back in the soil by including in a crop rotation, a crop of legumes. The legumes for examples clover, vetches, cow peas, and alfalfa have power to take nitrogen from the air and to make it part of the soil. This is accomplished by nitrogen fixing bacteria which work in the roots of these plants. The agricultural engineer, like the efficiency engineer in manufacturing who works out a system, must work out the best system for the farmer whereby this crop rotation may be effected. This system can only be followed when the proper layout of the fields and design of buildings has been made.

The last problem and the most important one the agricultural engineer must give his attention to is that of thorough tillage. Rightly to prepare the soil bed for a crop requires the application of power. In the past power has been furnished by the horse, but we are turning from the horse to the tractor, truck, auto and small stationary engine because the former has proved inadequate to the growing needs of modern farming. Not only in preparation of the seed bed, however, is mechanical power coming to be applied, but in harvesting, road making hauling in fact in all places where power applies to farm work. Power farming at present needs attention more than any other engineering problem. The field for the agricultural engineer then is for investigation in soil fertility, crop rotation and farm power.

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A number of organizations have not yet ordered the number of pages desired in the Cornhusker. Order blanks were mailed to all organizations. These should be returned at once or others filled and mailed to the Business Manager before Thursday night.

Individuals who have not paid for their pictures at Townsend's must do so before Thursday at which time the panels are printed. Pictures not paid for, or arranged for, positively cannot be printed.

Resident frats and sororities order space of Ernest Graves.

Organization pictures are expected to be paid for before the book is printed.

The following have not ordered the number of pages desired.

- Students' Debating Club.
- Union Society.
- Alpha Zeta
- Bushnell Guild.
- Phi Delta Phi.
- Phi Alpha Tau.
- Alpha Sigma Rho.
- Alpha Chi Sigma.
- Vikings.
- Iron Sphinx.
- Spikes.
- Uni Medical Soc.
- Deutsche Gesellige Verein.
- Verein Germania.
- German Dramatic Club.
- Agricultural Staff.
- Kosmet Club.
- Phi Beta Kappa.
- Black Masque.

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