

# With Our Crops

Agricultural Machinery and Equipment  
Corporation  
220 Tanduary (Nacoco Building)  
Manila

The health of the nation, and the success and prosperity of the Republic rest mainly on the scientific and far-sighted development of the country's natural resources, particularly agricultural resources...

The Agricultural Machinery and Equipment Corporation, a government agency, was conceived and established by President Manuel A. Roxas as a means of accelerating the systematic mechanization of Philippine agriculture in order thereby to wrest wealth, abundance, and happiness from the fertile soil of our land...

The AMEC, in a sense, is a staging base for our people's attack against "our new adversaries,—hunger, want, economic insecurity, and economic injustice."

The AMEC does not only procure tractors and other agricultural machinery for the nation's farmers and agriculturists, nor manufacture the plows and harrows, and machine spare parts with which to mechanize the farms, and turn up the soil for greater abundance; the AMEC will build among our people the skill, and impart the technical know-how necessary to convert our fields into blooming farms of happiness and plenty, into cherished free-holds of contented, peaceful, forward-looking families of Filipinos, secure in their freedoms, vigorous citizens of our "one world".

Knowledge of machines is the one requisite skill for progress in our time; that knowledge the School for Tractor Mechanics and Operators of Agricultural Machinery of AMEC will impart to our people in the field of Agricultural science and techniques.

#### Purpose

To train tractor mechanics and drivers of agricultural machinery, in line with the Republic's policy of increasing the technical skills of the people.

#### Length of Training

A minimum of three months, with classroom instruction given two to three hours daily except Sundays, and shop and field

work for five to six hours daily except Sundays.

Instruction shall be free, at no cost whatsoever to the trainees. Each trainee will be provided by the school with an allowance daily for cigarettes, matches, etc.

For the time being and until the facilities and funds of the school permit expansion, enrollment will be limited to 100 students selected for fitness and aptitude from among applicants.

#### SCHOOL FOR TRACTOR MECHANICS AND DRIVERS OF AGRICULTURAL MACHINERY

First class to open first week of  
December, 1946.

Tractors—number 1,500 of various horsepower varying from 10-35 b.h.p. to 91-140 b.h.p.

Makes—International, Caterpillar, Allis Chalmers, Clark-airborne.

Wheel and crawler type. Bull-dozers, angle-dozers, scrapers.

Gasoline, kerosene, diesel.

Farm Mechanical Equipment—

Tractor-drawn plows, mold-board type, disc type; tractor-drawn harrows and cultivators, discs, peg-tooth, spike tooth; seeders, furrowers, drills, broadcasters; Harvesters, pumping machinery.

#### COURSE OF STUDY

##### Instruction—

- a. Gas engine principles.
  - b. Liquid and gaseous fuels.
  - c. Carburetion and fuel injections.
  - d. Mixture distribution.
  - e. Valves and valve mechanism.
  - f. Ignition of the Charge.
  - g. Engine Lubrication.
  - h. Engine cooling.
  - i. Engine performance.
  - j. How to start, run, and stop an engine.
  - k. How to drive in different conditions.
  - l. Study of tillage implements.
  - m. Study of seeding machinery.
  - n. Study of Harvesting machinery.
- Shop and Field Work—*
- a. Engine Assembly.
  - b. Carburetion and Fuel Injection Assembly.
  - c. Ignition Assembly.
  - d. Lubrication and Cooling.
  - e. Overhauling.
  - f. Troubleshooting.
  - g. Field operations with agricultural

machinery.

#### ADMISSION REQUIREMENTS

1. Only boys not less than 16 years of age and men not more than 50, in good health and of good character, are eligible for training.

2. Those who have had some training in automobile, tractor, truck and stationary engine driving and operating will be preferred.

3. Applicants for admission must bring credentials and proper recommendations.

4. The applicant must be determined to undergo training until he finishes the course and is competent to become a tractor mechanic and driver of agricultural machinery.

#### FACULTY

Dr. Anastacio Teodoro, B. Agr., M.S. Ph. D.  
(On leave of absence from the University of the Philippines. Professor and Head, Dept. of Agricultural Engineering, Physics and Mathematics.)

##### Lecturers and Instructors

Pedro Pagsoligan . . . . . B.S.M.E.

Bernabe O. Dacanay . . . . . B.S.M.E.

Jose Romero . . . . . Chief Mechanic

*Location of School*

Inside the Pureza (Santa Mesa) compound of the National Development Company, Manila.  
*Director's Offices*

At the:

AGRICULTURAL MACHINERY AND EQUIPMENT CORPORATION  
220 Tanduary (Nacoco building)  
Manila

RECENT ADVANCES IN SOIL SCIENCE AND PLAN NUTRITION IN THE U. S.

By: Ricardo Marfori

\*—Mostly from actual observations made by the writer in his visits to different universities and institutions in the United States. Presented before the Bureau of Plant Industry Seminar (May, 1946).

**DR. MENA C. ESPINOSA**

**DR. VICTORIA HERNANDEZ**

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2:00 - 6:00 P.M.**