

Agriculture at International Exposition

Panama Pacific Exposition Will Be University of Education for the Farmer.

AGRICULTURISTS and livestock breeders each year find a more responsive world. The interest that humanity always has had in these classes, so necessary to man's existence, in recent years has been turned to strong assistance. Colleges and universities have been giving entire departments to their interests and many schools are devoted to agriculture, excluding all other branches of study.

Special courses, demonstration trains and active campaigns under the leadership of scientists are becoming common and are giving their studied efforts to make advance in bringing animal and vegetable to the ideal.

The Panama-Pacific International Exposition will be a university at which every phase of these industries will be treated with the care and skill of the laboratory. It will not be primary education; it will not be higher education; it will not be education by products. It will be education that includes all of these, and the visitor may choose the branch that he feels in need of most.

But the biggest appeal of this education will be the method of its presentation. It will be a plum of marvelous flavor placed in the center of the richest offering ever set before the world.

Three Departments.

Three departments will present the strongest special features for the agriculturist and the stock breeder.

The State exhibit promises to be laboratories where the best products are shown by the men who produced them. The national pavilions will be another source to demonstrate the success of foreign scientists and workers.

New York, among other things, may show her supremacy in the production of hay, Iowa and Illinois may present interesting exhibits of corn, and down the line of states and territories and among the nations special excellence will be given a proper display.

View herds, composed of animals and exhibits of poultry, which have been selected by competent authority as being typical of their several breeds will be maintained by the various breed record and poultry associations and by states and countries on the grounds between February 20 and September 20, 1915.

\$227,000 for Livestock.

In the past expositions livestock has been exhibited only a few days, late in the season. This arrangement has deprived the great majority of visitors of an inspection and study of the various breeds and types of domestic animals. Competitions in the department of livestock will take place in October and November of 1915. In addition to the \$175,000 which has been set aside as cash premiums, other sums have been appropriated by associations interested, which brings the amount to \$227,000.

Milk, the one universal food, will be the object of great attention in the livestock exhibits. Its sanitary production and care is an enormous problem and the solution will be aided by the exposition displays which will show creamery appliances in operation.

Dairy demonstration will be an important event in the exhibits of livestock. Sanitary handling of milk and its products, the proper feeding of cows, production of certified milk, the reduction of bacterial count and the daily recording of each cow in a specially selected herd of grade animals chosen for the demonstrating of type value will be in charge of recognized authorities.

With the increase of the "high cost of living," attention has been centered in the meat-producing animals and demands of various kinds in many countries are being made to increase the number of meat producing animals. The sheep has come in for large consideration and in addition to the view herds of sheep, which will be maintained on the ground, there will be the sheep competitions which will bring out the greatest number of high-class sheep ever assembled in America.

Large premiums have also been offered in the sheep shearing contest where men and women experts of the world will present an object lesson to

those interested in the production of wool. Sheep dog trials will also be held in conjunction with the shearing contests.

Poultry Exhibit.

The poultry show of the Panama-Pacific International Exposition will include more breeds and types than any other show. The world-wide interest in this department has caused the exposition to provide accommodations for more than 12,500 birds in addition to turkeys, ducks, geese, pigeons and other fowls. Specialty clubs of the world have offered money awards, trophies, leg bands and special ribbons in addition to the cash prizes offered by the exposition.

Plans are now being worked out whereby an international egg laying contest will be conducted on the grounds. The suggestion came from Australia and the contest will last 12 months.

A special Hall of Congresses is being erected on the livestock area of 65 acres. This building will accommodate livestock, poultry and other organizations that will hold their meeting in San Francisco in 1915. This hall will be equipped with moving pictures and magic lantern slides and

every other facility for giving lectures and demonstrations.

In the Palace of Agriculture there will be models of farm buildings showing to the general arrangement of stables, sheep folds, barns, pig sties, poultry houses, breeding grounds and special arrangements for breeding and fattening cattle.

Displays will also be made of material and appliances used in the agricultural engineering, reclaiming of marshes, drainage and irrigation. Every detail of farming implement will have demonstrations as will the subject of fertilizers.

Types of agricultural factories connected with farming, oil mills, grain elevators and appliances, equipment for the breeding of birds and all phases of market gardening will be shown.

The theory of agriculture with studies relating to soil and water from an agricultural point of view, charts and history of agriculture will be other parts of the display.

Useful insects and their products, injurious insects and plant diseases will be demonstrated by comprehensive collections of animal life. Forestry and forest products will be another complete department of unusual interest.

These are a few of the special things that will interest the agriculturist and the stock raiser at the Panama-Pacific International Exposition. However great the interest may be in these things they can arouse only a small part of the interest that will be commanded by the other aspects of this \$50,000,000 wonderland.

Eight of the great exhibit palaces are now practically completed and their domes are brilliant with oriental colors. Sculpture is taking its place in the scheme of things and the Tower of Jewels which is to rise 435 feet is now rising on its steel foundation. State pavilions are being erected, national buildings are under way, the mile race track is being graded, the concessions area which is to cover 65 acres and cost more than \$10,000,000, now is dotted with odd structures that are being added to each day.

The railroads have given a rate of one fare for the round trip, the San Francisco hotels have agreed to leave their rates as they now exist—at least enough have done so to insure 90,000 rooms—and the wonders that will be offered by the exposition during the warm months from February 20 to December 4, 1915.



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