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**SELECTING AND TRAINING FOR SHOW.**

While picking the winner in a horse race is often a guess and the work of a minute, unless one has a tip, picking a winner to lift the cup in a rooster show is "a horse of another color." It begins in the breeding pen. An Indiana fancier spent a day mating a breeding pen for hatching winners, spent the season rearing their offspring, spent some more over the selection and conditioning of these birds, then went to the St. Louis exposition, won the blue and sold his prize winning rooster for \$1,000. "Go thou and do likewise."

Our friend in the picture is also after the prize. He is comparing that beautiful cockerel with the American Standard of Perfection, the criterion for showmen. It gives minute descrip-



Photo by C. M. Barnitz.

**PICKING THE WINNER.**

tion of every breed, points necessary to win, disqualifications and cuts for defects, and this fancier has carved his bird into sections—is judging him as to shape, weight, color, comb, beak, eyes, face, earlobes, wattles, neck, breast, body, tuft, legs, toes, tail, wings, back, condition, and thus he goes over each bird and marks the best for exhibition, always training extras for accidents.

After selection the birds are kept separate and are trained to show off before the judge, who is more apt to give the blue to an inferior bird that displays his good points than to a good bird that runs and hides in a corner.

The bird is placed in an exhibition coop often to prepare him for con-



Photo by C. M. Barnitz.

**TRAINING BIRD TO POSE.**

finement at the show and there is tamed by feeding dainties from the hand.

He soon loses all fear and is easily taught to strike a pose and show off his curves. The trainer uses a stick or cane in directing the bird, as most judges use this instrument of torture to stir up the birds at the show, and the fowl can be taught by word or at the approach of any one to take position and strike that "dandy" attitude which will give the judge a solar plexus.

American shows are of such quality today that without fine birds, thoroughly trained and well prepared, no one may expect to win, unless it's an accident or the judge a gold brick grafter.

**DON'TS.**

Don't feed much rye to poultry; it ferments easily and is laxative.

Don't fail to gather swamp grass for bedding the ducks and geese in winter. Don't neglect ventilation. In summer and winter keep the fresh air busy chasing the dead air out.

Don't set the incubator lamp away from the oil. The oil will spill and will also eat away the lamp metal.

Don't ship dressed poultry to a distant party you know nothing about. If you do he may gold brick you.

Don't advertise a hen at a value of \$10,000. Some one that's hippy will say you're dippy or trying to trick with a big gold brick.

**ICEBERG DETECTION.**

**New Marine Thermometer Records Sea Temperatures Accurately.**

During the summer of 1910 experiments were made in the northern portion of the gulf of St. Lawrence with a new type of marine thermometer, the results of which promise to aid in the detection of icebergs in fog and at night.

By means of this new type of marine thermometer it is possible to record sea temperatures to one one-thousandth of a degree C. The microthermometer is of the electrical resistance type, in which variations of the resistance of the metal wire serve to give a measure of the changes of temperature of the medium in which the instrument is immersed. The resistance of the wire is made so high that small variations in temperature produce comparatively great changes in the resistance.

The coil is made with a resistance of 125 ohms and consists of 250 feet of pure iron wire with covered and wound on a copper cylinder about four inches in diameter and six inches wide. The cylinder is fitted accurately inside a second copper cylinder. The ends of the cylinders are carefully soldered and rendered water tight, while the connecting wires pass out through the middle of the outer cylinder. A stout copper tube is riveted on to the outer cylinder, to which other copper tubes can be fastened. The wires pass through a lead cable to the chart room, where they are connected to the bridge for obtaining a measure of the temperature resistance. Thus the absolute temperature as well as the small variations can be accurately measured. By means of a suitable modification and combination of a Calendar recorder with the wire bridge it is possible to record automatically the temperature to one one-hundredth of a degree. Readings can be taken every half minute, and curves are plotted showing the variations of water temperatures.

The instrument is supported over the side of the ship about five feet under the surface of the water. It has been found that the exposure of the bulb of the thermometer by the waves produces no irregularities, as the temperature of air in direct contact with the sea does not differ from that of the water.

Heretofore the proximity of icebergs has been determined by means of the bridge thermometer and by immersing a mercury or alcohol ship thermometer into buckets of water drawn up from varying depths. These instruments are not, as a rule, graduated to less than a single degree, which represents an interval on the stem of only one-eighth of an inch. Temperatures taken in this manner, even as often as four times in an hour in a ship going eight knots, give temperatures only every two miles. The temperatures of the sea change rapidly in the immediate vicinity of an iceberg; hence comparisons made between observations taken at intervals of even one mile are of no value in determining the presence of icebergs. The oscillations can be observed only on a continuous record. On the scale of the new electrical thermometer a single degree of temperature is represented by an interval of two feet, so that variations which would be imperceptible on an ordinary thermometer have a great effect on this sensitive instrument.

**The South Sea Swells.**

We all remember with what frequency in the old narratives of experiences in the south seas reference is made to the heavy swells of the ocean, which impressed the navigators with the idea of their remoteness from land, says Scientific American. The great size of the sea waves in high southern latitudes has been explained by the fact that south of the Cape of Good Hope and Cape Horn there is neither windward nor leeward shore and the prevailing wind in all longitudes is westerly. Thus when a west wind springs up it finds a long westerly swell, the effect of a previous wind, still running. The new born wind increases the steepness of this swell and so forms majestic storm waves, which sometimes attain a length of 1,200 feet from crest to crest. The average height attained by sea waves in feet is about half the velocity of the wind in miles per hour.

**Peruvian Petroleum.**

Efforts are being made to develop more extensively the petroleum resources of Peru. The known deposits of oil occur in a very narrow strip of land between the foothills of the Andes and the shore of the Pacific, and much of this is flooded at high tide. Piles of railroad iron driven in the pure ocean sand, which varies in depth from five to fifty feet, are used as foundations for the derricks. The shallowest of the driven wells is 1,700 feet in depth. There is very little gas, and the oil is very heavy, so that it can be put into buckets with shovels, and it is carried direct to the furnaces to serve as fuel.

**Industrial Use of Volcanic Ash.**

For some time past a company in Japan has been engaged in exploiting the use of volcanic ash in combination with portland cement mortar. This combination is said to be particularly valuable in the construction of works submerged in salt water. It is claimed that the cement thus formed possesses greater tensile strength and is denser than ordinary portland cement. It is also more resistant to the percolation of water. It is thought that should this industry prosper it might well be extended to the Philippines, where a great deal of volcanic ash is available.

**March of Progress.**

"We are thinking of putting an electric sign over the church." "It might be a good idea." "But there are factions. We can't decide whether to feature the minister or the soprano of the choir."—Pittsburg Post.

**A Bad Egg.**

"He has tricked me for the last time." "What is his latest roguesy?" "He borrowed my revolver, ostensibly to commit suicide, and then went and pawned it."—Louisville Courier-Journal.

**A Chicago Pun.**

"Well, professor," said one of his young married friends, "I've done the usual thing. I've put a mortgage on my house and lot." "Have you anything to chauffeur it?" Inquired the professor.—Chicago Tribune.

**Cruel.**

First Debutante—I suppose you are going with Miss Wellborn's party to Cairo? Second Debutante—If I'm No. 1 haven't received an invitation. First Debutante—Indeed! That's very strange! I'm going. Second Debutante—Ah, I understand now! I was told she had at last found a chaperon.—New York Journal.

**The Liberty Boys.**

The name of Liberty Boys is the name by which the Sons of Liberty of the American Revolution were familiarly known. They were the men who fought the first battles of the colonists, who opposed the stamp act and participated in the Boston tea party. A flag hoisted upon the flagstaff that stood beside Liberty tree, in Hanover square, Boston, was the signal at which they assembled.

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47-208-9

**Summons.**  
In the Circuit Court of the State of Oregon for Crook county,  
D. F. Stewart, Plaintiff,  
vs.  
John T. Moore and Della A. Moore, Defendants.

To John T. Moore and Della A. Moore, Defendants.  
In the name of the state of Oregon, You are hereby required to appear and answer the complaint filed against you in the above entitled suit on or before the last day of the time prescribed in the order for the publication of this summons, to-wit: on or before the 20th day of May, 1912, and if you fail so to appear and answer, for want thereof, the plaintiff will apply to the court for the relief demanded in his complaint, to-wit: for judgment against you for \$415, with interest thereon at the rate of ten per cent per annum from May 14th, 1908, for \$50.00 attorney's fees and for the costs and disbursements of this suit. For a decree for the sale of the lands described in that certain mortgage executed by you and in favor of plaintiff, dated May 14, 1908, and for the foreclosure of said mortgage.

This summons is published by order of the Honorable W. L. Bradshaw, Judge of the above entitled court, which order was made and entered on the 11th day of March, 1912, and the day of the first publication of this summons is the 21st day of March, 1912.  
M. R. ELLIOTT,  
Attorney for Plaintiff.

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