

SCIENTIFIC MISCELLANY

FISHES OF THE SEA.

Though no sharp line of separation can be drawn, marine fishes are roughly divided, for convenience, into three categories: shore fishes, which habitually visit coast-lines, and rarely descend to a greater depth than 300 fathoms; pelagic fishes, which inhabit the open sea, most of them spawning there also; and the deep-sea fishes, which live where the influence of light and surface temperature is but little felt. The shore fishes, according to Hellprin, number upwards of 3,000 species. Their northern range extends to or beyond the eighty-third parallel of latitude, but in the Southern Hemisphere they are not known to go beyond the sixtieth parallel. In the different zones these fishes are largely identical in both the Atlantic and Pacific basins, as well as on the opposite sides of these basins. Tropical waters, however, produce a greater abundance and diversity of forms than those of temperate regions, while the reefs give to the Pacific and Indian Oceans more species than the Atlantic. Our still very meagre knowledge of the pelagic fishes is sufficient to indicate that the number of such types is very limited. They diminish rapidly from the equator, and become rare beyond the fortieth parallel. Of the deep-sea fishes Guntler enumerated upwards of fifty forms supposed to have been obtained from depths exceeding 1000 fathoms; twenty-six from depths exceeding 2000 fathoms; and nine from 2500 fathoms or over. Other species have since been obtained by the Italian and Albatross, one from the extreme depth of 2900 fathoms.

THE EARTH'S SUPPORTS.

In the early gropings of the human mind probably no problem was more perplexing than that of the earth's foundations. One of the most primitive ideas represented the earth as a vast flat island, surrounded by an interminable ocean; and this view was subsequently modified by giving the ocean a circular boundary, with endless roots stretching downward beneath the whole. The priests of Veda asserted that the earth was supported on twelve columns, between which the sun passed. Anaximander regarded the earth as a cylinder floating in compressed air. The idea that the earth floated long prevailed, even the early Hindus, who supposed the hemispherical earth to rest on the back of four elephants, standing on the back of a tortoise, maintained that the tortoise rested on the universal ocean. Aristotle and Strabo conceived the sphericity of the earth, but what supported it as the motionless center of their universe puzzled them. Cosmas, A. D. 535, propounded the system of a square earth, resting on nothing and supporting the heavens on a solid wall. The Venerable Bede, who lived in the eighth century, regarded the earth as a floating egg, and this notion lasted many centuries. These crude theories have come down to a surprisingly recent period—so much a thing of today is our modern science.

AUSTRALIAN MOUND BUILDERS.

In Australia and the neighboring islands are seen many large mounds of earth, which were formerly supposed to be the tombs of departed natives. These remarkable mounds—reaching as much as fifteen feet in perpendicular height and sixty feet in circumference at the base—are not the work of man, however, but are now known to be the inclosures built by the Jungle Folks, and other species of the small family of Megapodidae, or great-footed birds. Each of these great piles consists of fallen leaves, grasses, etc., which the birds deposit in place by throwing backward with one foot. Though the mounds are usually in dense shade, the decaying vegetable matter has been found to raise the temperature at the center as high as ninety-five degrees. The eggs are carefully placed with the larger end up, about twelve inches apart, and are all covered to a depth of at least two or three feet.

A REDD PALM.

The famous Redd palm of Cayenne is giving signs of weakness, and is threatened with destruction in some gale. The proposition is therefore made that it be cut down, and the trunk preserved in the natural history museum at Paris, after being shown at the World's Fair in 1889. This remarkable tree belongs to the genus *Areca*, is about 100 feet high, and divides at a height of about thirty feet, the two stems being about equal in height and diameter, and flourishing and fruiting like two isolated trees. The vegetable phenomenon is in a grove with some 400 other palms, and shows nothing unusual save its twin stems.

DUST STORMS.

Showers of grayish and reddish dust off the African coast and over Southern Europe have been known from Homer's time. A "dust-rain" in 1755 covered 200 square leagues of Northern Italy, making a deposit an inch deep in places; and a dust fall near Cape Verde, described by Darwin, was 1000 or 1800 miles wide and reached 500 or 1000 miles from the coast. A shower of dust near Lyons, in 1848, was estimated by Ehrenberg to amount to 225,000 lbs., one-eighth being microscopic organisms. The red color is due to oxide of iron.

Soldiers in the Russian army are said to be cured of intemperance by a curious and heroic method. The inebriate is locked up, and given only food boiled in his favorite scotch whisky and water. He soon becomes horribly sick, but is kept on this diet until the very sight or scent of spirit creates in him an insupportable loathing for it.

The largest known flower is the Rafflesia, an extraordinary parasite of the forest trees of Sumatra, which measures three feet in diameter, weighs fifteen pounds, and has a calyx holding six quarts. The color is that of faint meat. The plant consists only of the flower, growing directly on the stem of its host.

Eggs of the extinct Great Auk, of which less than one hundred are known, now sell for more than \$500 each.

Eastern Oregon Agricultural Ass'n PROPERTY!

Two Hundred and Forty Town Lots!

Choice Building Sites!
Rich Garden Soil!
Fine Springs of Pure Water!
Valuable Rock Quarries!

Commencing on
APRIL 4th, 1888,

And continuing from day to day until all lots are disposed of,
THE
Eastern Oregon Agricultural Association
Will Sell at
PUBLIC AUCTION!

At the Court House,
Two Hundred and Forty Choice Lots!
In the town of Pendleton, Oregon. Also
Buildings, Stables, Fences and other Improvements.

TERMS:—One-half cash on day of sale, and one-half payable in one year, secured by note bearing interest at the rate of ten per cent. per annum.

List of property to be sold:

- | | |
|---------------------------------|---------------------------------|
| Blk 41, lots 1 to 18 inclusive. | Blk 89, lots 1 to 14 inclusive. |
| " 42, lots 1 to 18 inclusive. | " 90, lots 1 to 14 inclusive. |
| " 43, lots 1 to 18 inclusive. | " 91, lots 1 to 14 inclusive. |
| " 44, lots 1 to 18 inclusive. | " 98, lots 1 to 14 inclusive. |
| " 45, lots 2 to 18 inclusive. | " 99, lots 1 to 14 inclusive. |
| " 46, lots 10 to 15 inclusive. | " 100, lots 1 to 14 inclusive. |
| " 87, lots 1 to 14 inclusive. | " 101, lots 1 to 14 inclusive. |
| " 88, lots 1 to 14 inclusive. | " 102, lots 1 to 14 inclusive. |

One (1) acre more or less in lot 8 in NW 1 of Sec 10, Tp 2 N, R 32 E, bounded on the SE by Umatilla Reservation line, and on the west by the west boundary line of the S. L. Morse homestead claim.

1 grandstand building; 1 saloon; 1 dwelling house; 1 horse; 1 wagon; 1 set harness, Etc.

AUCTION SALE Of Fine Furniture,

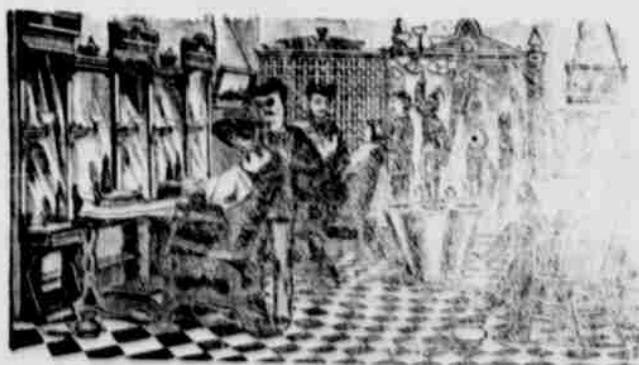
In front of court house at 1 o'clock, on
Saturday, March 31st, 1888,

Consisting of—
Heavy Walnut Extension Table, Fine Side-board, Bedroom Sets in Walnut and Ash, Marble Top Center Table, Silk Plush Parlor Set, Silk Portiere Curtains, Lace Curtains,

Brussels Carpet, Cook and Parlor stoves, Kitchen Utensils, Set Decorated China Silverware, Table Linen, etc. Also a number of books, among which complete set of Dickens' works and Grant's Memoirs.

Also—
The Very Desirable Residence for sale, or rent to a Desirable Tenant.

Furniture and residence can be inspected at any time before day of sale.



STORM LAKE SHAVING PARLOR

Shaving, Haircutting and Shampooing.

All work done by only competent workmen. A trial solicited.

KUGEL & SHARPS,

Corner Main and Webb streets, Pendleton, Oregon.

Are You Protected?

Those who believe so thoroughly in protection should not go any longer without insurance on their property, of whatever kind; and nearly everyone believes that a policy in a good,

Reliable Insurance Co.

Is worth every cent what it costs, and procrastination should not be indulged in when it comes to taking out a policy. In the first place, pick out competent and

RELIABLE AGENTS,

With whom to do your business—those who represent none but the best insurance companies—and go straightway and insure. When in search of such agents, don't fail to turn your "peepers" in the direction of the office of

Clopton & Jackson,

Located in the EAST OREGONIAN building, Pendleton, where you can have any kind of insurance, whether Fire, Marine, Accident or Life insurance, done up in

APPLE-PIE ORDER!

It is well to remember that to be secure you must insure in one of the **Thirty Reliable Companies** represented by

Clopton & Jackson, with a combined capital of more than

\$100,000,000!

If you contemplate insurance, call on them and get posted, and it will cost you nothing. Remember their office is in the EAST OREGONIAN building, or address

Clopton & Jackson,

Pendleton, - - - Oregon.

OREGON RAILWAY AND NAVIGATION CO.

Tickets To and from principal cities in the United States and Europe.

Elegant Pullman Palace

Emigrant Sleeping Cars run through press Trains to

OMAHA, COUNCIL BLUFFS AND ST. LOUIS.

Free of charge and without extra cost.

Close connections at Portland for San Francisco and Puget Sound Points.

East bound passenger arrives at 6:00 a. m. West bound passenger arrives at 8:00 p. m.

West bound freight arrives at 4:00 p. m.

Walla Walla and Pendleton leave at 6:00 a. m. for Walla Walla.

Leaves at 4:00 p. m. from Walla Walla.

To San Francisco, Leave steamship wharf, Portland, 11 p. m.

Leave as follows: Columbia, Fri. Mar. 2; Oregon, Sat. Mar. 3; State, Mon. Mar. 5; Tule, Wed. Mar. 7; Oregon, Thurs. Mar. 8; State, Fri. Mar. 9; Columbia, Sun. Mar. 11; Oregon, Mon. Mar. 12; State, Tues. Mar. 13; Oregon, Wed. Mar. 14; Columbia, Thurs. Mar. 15.

To Portland, Leaving Spear at wharf San Francisco, as follows: Oregon, Sat. Mar. 3; State, Sun. Mar. 4; Col. Thurs. Mar. 6; Oregon, Wed. Mar. 7; State, Fri. Mar. 9; Columbia, Sat. Mar. 10; Oregon, Sun. Mar. 11; State, Tues. Mar. 13; Col. Thurs. Mar. 15.

Rates of Passage, Including meals and berths.

Cabin, Steerage, Round Trip, Unlimited.

For further particulars inquire of any of the Company, or A. L. Maxwell, A. & T. A., Portland, Oregon.

A. L. MAXWELL, General Manager.

W. H. HOLCOMB, General Manager.

W. C. ALLOWAY, Agent, Pendleton, Ore.

To San Francisco, Oregon & California R. R. And Connections.

The Mount Shasta Route. Quicker in time than any other route between

PORTLAND AND SAN FRANCISCO.

Leave Portland at 4:00 p. m. Through time, 39 hours.

PULLMAN BUFFET SLEEPERS.

Excursion Sleepers for Class Passengers on through trains free of charge.

Fare from Portland to Macdonald and San Francisco:

First-class Unlimited, \$10.00.

First-class, Limited, \$5.00.

Second-class, Limited, \$3.00.

Ticket Office: Corner Front and Main, Portland.

E. P. ROGERS, G. F. & Pass. Agt.

R. KOEHLER, Manager.

GREAT OVERLAND ROUTE

THE Northern Pacific Railroad.

THE ONLY LINE RUNNING

Pullman Palace Sleeping Cars.

Magnificent Day Coaches.

Elegant Emigrant Sleeping Cars.

With Berths Free of Charge.

From Oregon and Washington to the East.

Via St. Paul and Minneapolis. The line running Palace Dining Cars. (Meals 75 cents.)

Fastest Time Ever Made From Coast Over the Northern Pacific Railroad.

To Sioux City, Council Bluffs, St. Joseph, Atchison, Leavenworth, Kansas, Burlington, Quincy, St. Louis, Chicago, all points throughout the East and West via St. Paul and Minneapolis.

EMIGRANT SLEEPING CARS.

Are hauled on regular express trains the entire length of the Northern Pacific Railroad.

Leave Wallula Junction 3:10 a. m.

Leave Portland 3 p. m., daily; arrive Minneapolis or St. Paul 12:30 p. m., fourth day.

Connection made at St. Paul and Minneapolis to all points East, South and South-West.

PACIFIC DIVISION.

Train will leave Portland daily at 11 a. m., connecting with O. R. & N. Co.'s boats all points on Puget Sound.

A. B. CHARLTON, General Western Passenger Agent, Washington St., Portland.

W. C. ALLOWAY, Agent, Pendleton, Ore.

WM. GARDNER & CO.

Sanitary and Heating Engineers.

Manufacturers of

Steam and Hot Water

Heating Apparatus,

FOR DWELLINGS OR PUBLIC BUILDINGS.

Specifications and estimates furnished heating buildings in any section of the country. Correspondence solicited.

OFFICE: 134 THIRD STREET

Portland, Oregon.

JOB PRINTING

Can be had at the EAST OREGONIAN at prices that will prove they are cheaper than those of any other printing house in Eastern Oregon.