

The Earth a Great Magnet.

This is the title of a lecture recently delivered by Professor Silvanus P. Thompson, at Glasgow, under the auspices of the Glasgow Science Lecture association. Professor Thompson traced the history of magnetism from the time of Dr. W. Gilbert, one of the physicians of Queen Elizabeth, by whom it was raised from the region of superstition and fable to that of true science, remarking that in Gilbert's book he had found the title of his address, "The Earth a Great Magnet." He showed by experiment the properties of the loadstone, of the magnet, of the mariner's compass and pointed out the various modes in which a magnet might be formed. He illustrated the declination of the magnetic needle, and explained the difference between the magnetic and geographical poles. The magnetic pole, he stated was at present near Boothia Felix, more than a thousand miles to the west of the geographical pole. In 1657 the position of the needle showed the magnetic pole to be due north. It had been eastward before that. It then began to point westward, and the westward variation increased till 1816, when the maximum was attained. It had since steadily diminished, and in 1876 it would again point to the due north. The changes which had been observed, not only in the direction but in the strength of the earth's magnetism, showed that the same causes which originally magnetized the earth were still at work. Strangely enough these changes did not occur at long intervals in the course of centuries, but were going on from day to day, from week to week, and from year to year. This was illustrated by those magnetic storms which interrupted telegraph operations, rang telephones, and, as was reported lately, kept one of Edison's lamps alight, though he would like to have seen it.

These magnetic storms were the most frequent in the month of May and fewest in June, again reaching their maximum about October. It had also been observed that the more violent the magnetic storms the more numerous were the spots on the sun, and the more brilliant were the auroral displays around the poles. The phenomenon of the aurora were among the mysteries of science, of which no explanation had been given; but it was certain that the aurora was an electrical discharge passing from the equatorial regions through the upper air and descending at the poles, where a condensation of vapor was constantly taking place. The earth was thus constantly surrounded by electricity, and here, he thought, was to be found the answer to the question, how did the earth become a magnet? That it was not always a magnet he regarded as certain, seeing that there were good geological grounds for believing that it was once a molten mass, and that nothing destroyed magnetism like heat. Faraday had found that by taking a bar of iron, spinning it on its axis, and carrying a current of electricity round it from the center to the poles, a magnet was formed. As, therefore, there was a current of electricity continually flowing from the equatorial regions to the poles and returning again to the equator, he put forward as a guess that in this way the earth revolving continually on its axis had been converted into a magnet. This theory, of course, involved that the magnetism of the earth had been growing, was growing, and would continue to grow.

MEER GOOLAM the Nawab of Swat, is about to be married. His next friend the Akkond of Swat will be groomsman. The bride's dowry includes twenty elephants.

An Omaha dispatch of the 27th, says: Assistant General Manager Kimball, of the Union Pacific, who returned from New York today, confirms the report of the agreement between the Oregon Railway and Navigation company and the Union Pacific for a ten year contract of an interchange of through traffic to Portland, via the Oregon Short Line. The meeting point of the Oregon Short Line and the Oregon Railway and Navigation company's railway has been fixed in the valley of the Snake river. Sleeping cars are to run from Omaha to Portland without change. The two roads are to be completed to the junction by December 21st, this year. Work on both lines is being rapidly pushed. Winter camps are being maintained on the Oregon Short Line for a distance of fifty miles. The Wood river branch, from Shoshone to Hailey, Idaho, will be completed early this summer.

The secretary of state has, upon application of the British government, sent a warrant for the arrest of P. A. Sheridan, suspected of complicity in the Phoenix Park murder, and it has been placed in the hands of West, the British minister. Sheridan is supposed to be in New York city. In case he is arrested he will be taken before a United States commissioner, who will decide whether he is subject to extradition under the warrant. Should he decide in the affirmative, the department of state will issue the necessary extradition papers.

DAVID DAVIS will resign the presidency of the senate at noon next Saturday. It is thought the Democratic senators will offer no opposition to the prompt election of a Republican senator as pro tempore president. Although no caucus action has yet been taken on the subject, the indications are that Edmunds will be chosen as president pro tem. The other officers will hold the positions until December.

It is said that two-thirds of all the medicine sold in the United States are in the form of patent medicine.

NEW TO-DAY Notice. BIDS FOR THE PRIVILEGE OF FISHING the beach at Fort Stevens, Oregon, during the coming fishing season, will be received at the office of the A. A. Q. M., Fort Stevens, Oregon, until 12 M., March 7, 1883. Bids should be addressed to the undersigned, at Fort Stevens, Oregon, and marked on cover, "Bids for privilege of fishing."

Notice. CAPTAIN JOHN DOUGLAS has received from this date to be Master of the British barque, "Jennie," and has no further connection with said vessel. MEYER, WILSON & CO., Portland, Feb. 28th, 1883.

For Sale or Exchange. NEAR SAN JUNE, CALIF.—6 ACRES NO. 1 Fruit land, together with cottage house, 3 rooms, barn, chicken house, etc. Water in pipes to house and barn; School and church across road.—Will exchange for country stock or timber land. BOZORTH & JOHNS.

Notice. STATE AND COUNTY TAXES FOR THE year 1882, are now due and can be paid at my office at the Court House. J. M. TWOMBLY, Sheriff.

Notice. I WILL NOT BE RESPONSIBLE FOR any debts contracted in my name without a written order from me. MAX WAGNER.

TUTT'S PILLS. SYMPTOMS OF A TORPID LIVER. Loss of Appetite, Bowels costive, pain in the head, with a dull sensation in the back part. Pain under the Shoulder Blade, fullness after eating, with a disinclination to exertion of body or mind, Irritability of temper, Low spirits, with a feeling of having neglected some duty, Weakness, Dizziness, Fluctuating at the heart, Dots before the eyes, Low Skin, Headache generally over the right eye, Restlessness, with painful dreams, highly colored Urine, and CONSTIPATION.

TUTT'S HAIR DYE. Gray Hair or Whiskers change to a Glossy Black by a single application of this Dye. It imparts natural color. Acts like a tonic. Sold by Druggists, or sent by express on receipt of \$1.00. OFFICE, 35 MURRAY ST., N. Y. (Circular Descriptive will be mailed FREE on application.)

Carl Adler, DEALER IN BOOKS AND STATIONERY. NOTIONS & TOYS. Blankbooks, Schoolbooks, JEWELRY, SILVERWARE. Subscription News Depot. PIANOS and ORGANS. For sale on easy installment plan; also some for rent. SHEET MUSIC & MUSICIAN'S SUPPLIES. I KEEP The best assortment in the city: a full stock of everything kept in a first-class Book, Music, and Variety store, and my Prices will be found in every instance REASONABLE. AT THE OLD STAND. Astoria, Oregon.

Carl Adler. FIRST GRAND Clearance SALE! AT EMPIRE STORE PRIOR TO STOCK TAKING.

We offer SPECIAL INDUCEMENTS in our line of Dress Goods, Silks, Velvets, Plushes, Cashmeres and Armures. Lacons, Hosiery, Corsets, Cloaks, Dolmans, Etc., etc. A FINE ASSORTMENT OF FLANNEL COMFORTERS, Blankets, Etc.

Stock Complete in Every Branch. Frael Brothers. Notice. NOTICE IS HEREBY GIVEN, THAT THE undersigned will not be responsible for any debts contracted or made, by or in the name of the firm of Merrill and McGregor, composed of E. S. Merrill and W. F. McGregor, and formerly doing business as blacksmiths in Astoria, Oregon, as no person has any authority to contract or make any debts for said firm and has had no authority since the time of the transfer of the business of Merrill and McGregor to G. A. SIMON, W. F. MCGREGOR, d 18th.

For Sale. THE SLOOP, "LAST CHANCE"—FOR particular enquire at M. Wise's store, or address G. W. Birchard, Gray's River, W. T.

Notice. ANYONE MISSING TWO HOGS CAN have them by calling at my place, paying property and paying charges. FRED SHERMAN.

\$3,000 TO LOAN IN SUMS to suit, on real estate security. BOZORTH & JOHNS.

For Sale or Rent. A HOUSE AND LOT IN WILLIAMSPORT. Will be sold cheap for cash. For particulars inquire at Oregon West Market, of ml m GEORGE GANZ.

Notice. ALL PARTIES KNOWING THEMSELVES indebted to the late M. W. Gallick will please pay the amount to S. Schuster at the White House Store, who is authorized to receipt for the same. W. GALLICK, Astoria, Oregon, February 28th, 1883.

Notice. ALL PERSONS KNOWING THEMSELVES indebted to the late M. W. Gallick are requested to make immediate payment to E. S. Merrill or our Attorney, F. D. Winton, the only authorized agents to receive and receipt for the same. E. S. MERRILL.

Administrator's Notice. NOTICE IS HEREBY GIVEN THAT THE undersigned has this day been appointed by the Honorable county court, of the State of Oregon, county of Clatsop, administrator of the Estate of John Gustaf Hansen, deceased, and who was generally known by the name of Frank Brown. All persons having claims against said estate are hereby notified to present the same, with proper vouchers duly verified, to me at the office of Union Packing Company, at Astoria, Clatsop County, Oregon, within six months from the date of this notice. All persons indebted to said estate will call and settle the same with me at once. F. F. JOHNSON, Administrator.

FOR SALE. TEN SHARES GANNERY STOCK—terms private. Also, Lot 4, Block 10, McClure's Ast. with improvements thereon. Also three good farms within easy distance of Astoria—terms easy. Lots in McClure's, Shively's and Adair's—Astoria, and three blocks in Alderbrook—fifteen acres tide land on Young's Bay. Also, a good paying business in Astoria. BOZORTH & JOHNS.

Wm. T. COLEMAN & Co. SHIPPING AND COMMISSION MERCHANTS.

SAN FRANCISCO, Corner Market and Main Streets. CHICAGO AGENCY: 39 River Street. LONDON AGENCY: 4 Bishopsgate St. Within. ASTORIA AGENCY: Flavel's Wharf and Warehouse.

We have our Brokers and Agents in Boston, Portland, Me., Ottawa, Montreal, Quebec, Winnipeg, in the Dominion of Canada, Pittsburg, Baltimore, Philadelphia, Washington, Atlanta, Savannah, Cincinnati, Charleston, Mobile, New Orleans, St. Louis, Kansas City, St. Paul, Minneapolis, Milwaukee, Detroit, Memphis, St. Joseph, Leavenworth, Helena, Butte, Denver, Pueblo, Santa Fe, Albuquerque, Fort Worth, Dallas, Galveston, etc., etc.

AND ABROAD: In Paris, Havre, Antwerp, Hamburg, Frankfort of M., Bremen and in all the commercial centers of the United Kingdom. IN CHINA AND INDIA AND JAPAN—Hongkong, Canton, Amoy, Yokohama, Singapore, Manila, Madras, Bombay, Calcutta, etc. IN AUSTRALASIA—Sydney, Melbourne, Newcastle, Victoria, Brisbane, Christchurch, Auckland, Adelaide, and the Fiji Islands. IN MEXICO, CENTRAL AMERICA, AND THE WEST COAST OF SOUTH AMERICA.

These, combined with a large and efficient force of traveling salesmen, in the United States and Canada, give us peculiar facilities for the distribution of goods entrusted to our care. Our London office, under the charge of Mr. Eugene E. Jones, (who has long been identified with the Home office, and is thoroughly familiar with the Salmon trade). Make a Specialty of promptly and economically settling and adjusting all claims for Swells.

CANNED GOODS DEPARTMENT:—Fruits and Vegetables.

Table listing various canned goods agents and their locations. Includes Golden Gate Packing Co., San Jose; Dominion, Sheffield & Knight, Santa Barbara; J. D. Dawson Packing Co., San Jose; Riverside Fruit Co., Riverside; Fresno Packing Co., Fresno; Los Gatos Packing Co., Los Gatos; J. Lusk Canning Co., Oakland; California Packing Co., San Jose; Sierra Madre Packing Co., Riverside; Capitol Packing Co., Sacramento; Live Oak Packing Co., San Jose; Tres Pinos Packing Co., Eureka; Chico Packing Co., Chico; Redwood Packing Co., Los Gatos.

SALMON: And the control for 1883 of Joe Hume's Photo Brand of Columbia River Salmon.

Table listing salmon agents and their locations. Includes Wm. Hume, Astoria, Columbia River; Wm. Hume, Eagle Cliff; Fishermen's Packing Co.; White Star Packing Co. (formerly C. Timmins & Co.); Columbia Canning Co. (formerly Thistle Brand); James Williams & Co.; Union Packing Co.; Seaside Packing Co.; Pacific Union Packing Co.; Samuel Elmore; Pillar Rock Packing Co.

In SAN FRANCISCO. ISSUE LETTERS OF CREDIT, MAKE ADVANCES on Consignments in Produce and MERCHANDISE, directed to New York and other Atlantic Markets, to England and Continental Ports; also, to ports in China, Australia and South America.

In NEW YORK. PURCHASE and SHIP STAPLE MERCHANDISE to California and the above named leading markets, and MAKE ADVANCES on Consignments thereto; Charter Ships, Engage Freights for all Ports, free of commission to the Shipper; Effect Insurance in the leading offices, on the best terms, and do a General Mercantile and Exchange Business.

In CHICAGO. Receive consignments of California Produce, and make a Specialty of California Canned Goods and Salmon.

In LONDON. Consignments solicited on which the San Francisco house makes liberal advances. Special attention given to adjusting claims in blown and pierced tins.

IN ASTORIA, At Flavel's Wharf and Warehouse, under the Management of Mr. Samuel Elmore. Supply Canneries at the lowest Market Price with all articles of Merchandise. Receive Storage, make Advances on Merchandise and do a GENERAL MERCANTILE BUSINESS.

Files of all the leading Commercial papers of the World will be kept for the accommodation of our friends and constituents, and full market reports freely furnished on application. A weekly letter on the Salmon market from our San Francisco, New York, Chicago and London houses will be at the disposal of our friends.