

The Earth's Independence of the Sun.

Professor Pierce, of Harvard college, in a lecture in Boston last week, set forth some facts of interest in regard to the earth's independence of the sun's heat, which may be consoling to persons who accept the theory that the center of our solar system may lose its warmth. Could the organisms upon the earth withstand any great decrease of the sun's heat? To reply to this question he said we must remember that the earth's surface depends for its temperature not merely upon the heat which it receives, but also upon that which it is constantly radiating. With a small reduction of the actual temperature vegetable organisms become less active, less carbonic acid is removed from the atmosphere, and it is wonderful how a small addition to the carbonic acid of the atmosphere increases its power of abstracting the passage of low forms of heat, and so diminishes the planet's radiation. Six per centum of carbonic acid nearly doubles the resistance of the atmosphere to radiation. If then, the supply of heat from the sun were reduced one-half, the small increase of carbonic acid which would occur in the course of nature would furnish the complete remedy for the loss, and restore the temperature needed for life. It is easy to see that this phenomenon would be accompanied by a more even and spring-like distribution of temperature over the earth's surface, which seems to accord with arctic geology. It may be, then, that a diminished sun is not to be dreaded. It is more probable, however, that the heat of the sun is still on the increase. After a time, it may be ages, the sun will have cooled again, and will grow dim. But even then we shall have much heat from it as have the dwellers upon the outer planet of our system; as much light as the animals now have at the bottom of the ocean. We shall still have souls within our bodies and a Father in heaven. Still further on, the ideal history terminates in a total disappearance of all the material light of the present creation, chaos returns, ripe for a new nebular history and a new series of evolutions. But the old spiritual ideal can never be effaced.

We are pleased to hear of the prosperity of Bro. Chas. Besserer, of the Walla Walla Watchman. He is preparing to build a new office building, and will put into it a steam power press. He deserves prosperity.

The authorities of the Trinity House, London, have been making experiments with a new kind of gas which has been brought under their notice as not only being cheaper than ordinary gas, but far more effective. The new gas is capable of so much concentration, that the quantity kept in a small buoy, has kept a light burning for twenty-eight days, with sufficient brilliancy to show the position of the buoy to passing ships. The inventor declares that a buoy of ordinary size would contain sufficient gas to keep a good light burning for nine months, so that all our buoys might show lights at night, if gas was supplied to them twice in a year and a half. We shall probably hear more of this, as the claims of the inventor are now being subjected to practical tests.

Beautiful Charity.

By the will of the late Deacon Asa Otis, the American board of foreign missions was made residuary legatee. Bequests of nearly \$750,000 were made—\$500,000 going to foreign missions.

This is from an exchange. What beautiful charity! Half a million dollars to be expended by foreign missions. For what? To convert the Patagonians, Hottentots, citizens of the Cannibal islands, etc.; while hundreds of American-born men, women and children are starving and dying for the want of the necessaries of life. Of course, Mr. Otis had the right to do as he pleased with his own money, says the San Francisco Times, but it makes one's blood rise in rebellion against such a counterfeit on the name of charity as is set forth in the paragraph above quoted. This foreign mission business puts us in mind of the expedition which was sent out at an expense of £9,000,000 to convert the Jews. We believe one Jew was converted, and he was probably caught away from home, and after the converters left he returned to the tents of Israel.

Orchard Grass.

Two kinds of grass going by this name are being raised on Lewis river. D. F. Reid doubting the genuineness of one kind wrote to the editor of the American Agriculturist about them, and received a letter in reply, of which the main points are as follows:

You send as "orchard grass" two widely different plants. Your No. 1 is the true "orchard grass," and a valuable grass, whether for hay or for pasture. To get the best results from it, the seed should be sown very thick, at least two bushels to the acre, as when it stands thin on the ground it forms clumps or tussocks, which make hard work for the mowing machine. Many prefer it to timothy to sow with clover, as it is perfection at the same time as the clover. Your No. 2 is "Velvet grass" or "Meadow soft grass," and with us considered as merely a weed. I have never known it to be cultivated, though it is used in England on barren knolls and other land too poor for anything else to grow. Like yourself, I never saw cattle eat it, and do not think they will, if there is anything else to be had.

You would perhaps hardly be interested if I were to describe the botanical difference between the two, but there is one character by which you can distinguish them. In the "orchard grass" the flowers are at the ends of the branches of the head or cluster; while on the other one the branches have flowers nearly down to where they branch from the main stem. Then the orchard grass is much rougher than the other, which is quite soft and velvety to the touch. I think you will have no difficulty in telling them apart; and while you will no doubt find No. 1 useful, I think you will not care to encourage No. 2.

Very Respectfully, GEORGE THURVEY, Editor.

A Little Off.

Walla Walla Watchman.

They had a gay old time, in front of a saloon with a little good old man, who happened to be "off" last Saturday. It seems, while he was inside, sampling liquor, some roguish fellow went to his horse, which stood in front of the saloon, turned the saddle and synched it up again. Presently the old man came out as full as a goose, apparently anxious to get home, for he mounted the horse without much ado, but now the trouble commenced. He pulled on the crupper and exclaimed: "Hold up your head!" but no head came up, in fact it was up, but on the other end. He gave another jerk at the crupper, thinking it was the bridle, and again yelled: "Hold up your head, Prince and don't be drinking all day!" Here he looked around to see what the boys were snickering at, and lo! there was Prince's head "way up," like a rooster's. The old man felt as though some one had hit him over the head with a crowbar. He sobered right up, fixed the saddle and turned the horse, we forget which, and silently rode away, amid a peal of laughter. On his way home the old man "swored" off and didn't touch a drop until the next morning.

The legislative committee appointed to investigate the reports with regard to the insecurity of the new state capitol at Hartford, Conn., has reported that the process of constructing the building was changed without the knowledge of the commission, lime-mortar being substituted in place of cement in setting the granite of the piers, to which was due the breaking, disfiguring, and weakening of the piers. It is believed, however, that safety has been secured by drilling some 800 holes in the joints of the granite, removing the mortar, and filling in with type-metal.

The Bee-hive is a busy place. Mrs. Steers has just laid in a very large stock, consisting of millinery goods, a large assortment of ready-made suits for ladies and children, and an excellent line of underclothing, for the ladies and children. Call at the Bee-hive Store and inspect this new stock. The low price of everything will astonish you.

Send your subscription for the ASTORIAN another year. Help us, that we may continue to help you.

NEW ADVERTISEMENTS.

LOST—On Monday or Tuesday last, a package of statements, of no value to the finder, belonging to a S. F. house. The finder will be liberally rewarded by leaving them at the OCCIDENT HOTEL, Astoria.

NOTICE.

THERE WILL BE A SPECIAL MEETING of the Board of Delegates, A. F. D., on TUESDAY, APRIL 15, 1879.

At 7:30 P. M. For reading minutes, and taking into consideration resignations, credentials, and any other business that may lawfully come before the board. By order of the President, JAS. W. WELCH, E. D. CURTIS, Secretary.

EXTRA QUALITY OATS AND POTATOES FOR SEED! At J. H. D. GRAY'S, Astoria, Oregon.

LOST! ONE GOLD CUFF PIN, Amethyst setting. The finder will be liberally rewarded by leaving the same at THIS OFFICE.

SUMMONS—Justice Court for the precinct of Astoria, State of Oregon, county of Clatsop, vs. Peter Mattson, plaintiff, vs. Charles Newman defendant. Civil action for the recovery of money.

To Charles Newman, the above named defendant. In the name of the State of Oregon: You are required to appear before the undersigned, a Justice of the Peace for the precinct aforesaid, on the 24th day of May, 1879, at 10 o'clock in the forenoon of said day, at the office of said Justice, in said precinct, to answer the above named plaintiff in civil action. The defendant will take notice that if he fail to answer the complaint herein, the plaintiff will take judgment against him for the sum of \$500.00, and his disbursements. Given under my hand this 9th day of April, 1879. BEN. B. TURLEY, Justice of the Peace.

Service of this summons is ordered to be made by publication by order made this 9th day of April, 1879. 13-77 BEN. B. TURLEY, J. P.

Proposals for Provisions for Light Stations.

OFFICE OF LIGHT-HOUSE INSPECTOR, Portland, Oregon, April 7, 1879. SEALED PROPOSALS WILL BE RECEIVED at this office until twelve o'clock, M., Thursday, the first day of May, 1879, for furnishing and delivering to the Inspector of the Thirteenth Light-house district, provisions for Light-stations in the Thirteenth Light-house district, in such quantities and at such times during the twelve months, from July 1, 1879, to June 30, 1880, inclusive, as may be called for; to be of good and approved quality, subject to inspection, to be delivered alongside of the Light-house tender, or other vessel provided for that purpose, at Astoria or Portland, as may be designated by the Inspector, in good and sufficient packages, barrels, boxes, or cans, and in good order, for such number of persons as may be specified by the Inspector, free of all expense to the United States, according to the specifications and tables, copies of which may be had on application at this office, and at the office of the Light-house board, Washington, D. C. The bids must state the sum bid for each annual allowance, and must be placed in an envelope sealed and endorsed "Proposals for provisions for Light-stations," and then placed in another envelope, which must also be sealed, and left at or directed to this office, postage prepaid, if sent by mail. A copy of this advertisement should accompany each bid. The right to reject any or all bids, or to waive defects, if it be deemed for the interest of the United States to do so, is reserved. E. C. MERRIMAN, Comdr U. S. Navy, Light-house Inspector, 15-2w

Proposals for Rations for Light-House Vessels.

OFFICE OF LIGHT-HOUSE INSPECTOR, Portland, Oregon, April 7, 1879. SEALED PROPOSALS WILL BE RECEIVED at this office until twelve o'clock, M., on Thursday, the first day of May, 1879, for furnishing and delivering to the Inspector of the thirteenth Light-house district, rations for Light-house vessels in the thirteenth Light-house district, in such quantities and at such times during the twelve months, from July 1, 1879, to June 30, 1880, inclusive, as may be called for; to be of good and approved quality, subject to inspection, to be delivered alongside of the Light-house tender, or other vessel provided for that purpose, at Astoria or Portland, as may be designated by the Inspector, in good and sufficient packages, barrels, boxes, or cans, and in good order, for such number of persons as may be specified by the Inspector, free of all expense to the United States, according to the specifications and tables, copies of which may be had on application at this office, and at the office of the Light-house board, Washington, D. C. The bids must state the sum bid for each daily ration, and must be placed in an envelope, sealed and endorsed "Proposals for rations for Light-house vessels," and then placed in another envelope, which must also be sealed, and left at or directed to this office, postage prepaid, if sent by mail. A copy of this advertisement should accompany each bid. The right to reject any or all bids, or to waive defects, if it be deemed for the interest of the United States to do so, is reserved. E. C. MERRIMAN, Comdr U. S. Navy, Light-house Inspector, 15-2w

Ladies Attention! 1874. SPRING SEASON! 1879. HAS OPENED AT HAMBURGER'S The best selected stock ever before carried in this city. DRY GOODS, CLOTHING, BOOTS AND SHOES, HATS, CAPS. CROCKERY, GLASS WARE, CARPETS, MATTINGS. A FULL LINE IN EACH DEPARTMENT. We call especial attention to our extra large invoice of EMBROIDERIES, PRICES WAY DOWN. WE SELL ONLY FOR CASH, NO CREDIT. NO HOUSE SHALL UNDERSSELL ME. B. HAMBURGER, MAIN STREET, ASTORIA, OREGON. Sole Agent for the New American Sewing Machine.

EASTER EGGS! EASTER EGGS SOMETHING ENTIRELY NEW. RECEIVED DIRECT FROM THE EAST PER STEAMER OREGON A BEAUTIFUL AND VARIED LOT, SOME CONTAINING NICELY COLORED PANORAMIC VIEWS. OTHERS ORNAMENTED WITH CUPIDS, VARIOUS DEVICES; Also: BRIDES AND GROOMS; GODDESS OF LIBERTY; CUPIDS AND WREATHS. And other large, handsome and newest style cake ornaments. Also: Nice fresh candies, cakes, and all kinds of confectionery. OYSTERS IN EVERY STYLE. SCHMEER'S CONFECTIONERY, OPPOSITE THE BELL TOWER.

Grand Opening for 1879. AT THE Old Stand, Near the Walla Walla Restaurant. THE San Francisco Store IS NOW OPEN AND READY TO SUPPLY FISHERMEN, AND MECHANICS GENERALLY WITH THE BEST QUALITY OF CLOTHING, BOOTS AND SHOES. Gent's Furnishing Goods, Etc. This is the only place in the city of Astoria where you can buy the Genuine Carters Cape Ann Oil Skins, and all kinds of Rubber Boots. Goods will be sold at the very lowest market rates, but for CASH ONLY. S. DANZIGER, Proprietor.

BUSINESS CARDS.

F. J. TAYLOR DENNISON & TAYLOR, ATTORNEYS AT LAW. ASTORIA, OREGON. OFFICE—Up stairs in Parker's building, corner Chenamus and Benton streets. C. W. FULTON, ATTORNEY AT LAW. OFFICE—Pages new building, Squemoque street, Astoria, Oregon. DR. J. W. OLIVER, HOMEOPATHIST. OFFICE—In Shuster's Daguerrean building. Entrance—Second door above that of the DAILY ASTORIAN, Cass street. Residence on Jefferson street, corner of Main.

DOCTOR HATCH. Successfully treats all Chronic Diseases, AND DISEASES OF WOMEN AND CHILDREN. Can cure by a new and painless method. Office—Chenamus street, corner of Main street, Astoria.

DR. J. O'BRIEN. CURES BILIOUS AND INTERMITTENT FEVERS. With from one to three doses of his harmless medicine. Also, Private diseases successfully treated. OFFICE—O'Brien's hotel, Astoria, Oregon.

OTTO DUFNER, WATCHMAKER AND JEWELER. HAS REMOVED TO Main street, Parker's building, ASTORIA, OREGON.

WM. BECK, Manufacturer of Boots and Shoes. All kinds of repairing neatly and promptly attended to. MAIN ST., - ASTORIA, OREGON.

PFUNDER, PORTLAND, Has just received direct, from the manufacturers, the largest and best assortment of Cannery Thermometers Ever imported to this State. Send in your orders early. Address: WM. PFUNDER & CO., Lock box 218, Portland, Oregon.

DON ROSS, HOUSE AND SIGN PAINTER. Shop on Cass street, Astoria, Oregon. Paper hanging and Kalsomining a specialty. All work guaranteed to give satisfaction.

TO LEASE. TEN ACRES OF LAND. On Youngs Bay, cleared, will be suitable for dairy, or a chicken ranch, or for gardening purposes. Within one mile of the Astoria Post-office by land. ALSO: FIVE ACRES. Covered with Hemlock timber, suitable for tannery purposes. Leases will be made for a term of years as may be arranged. Apply to J. H. D. GRAY, Astoria, Oregon.

AUCTION SALES.

E. C. HOLDEN, Notary Public for the State of Oregon. Real Estate Agent and Conveyancer. Agent for the FIREMEN'S FUND INSURANCE COMPANY of San Francisco. COMMISSION AGENT AND AUCTIONEER. Rents and Accounts Collected, and returns promptly made. Regular sales day, SATURDAYS at 2 P. M. N. B. Parties having real estate, furniture or any other goods in dispose of either at auction or private sale should notify me soon as convenient before the day of sale. No storage charged on goods sold at Auction. E. C. HOLDEN, Auctioneer.

MISCELLANEOUS. WILLIAM EDGAR, Corner Main and Chenamus Streets, ASTORIA, OREGON. DEALER IN

CIGARS AND TOBACCO, AND THE GENUINE WOSTENHOLM and other English Cutlery. STATIONERY! FAIRCHILD'S GOLD PENS Genuine Meershaum Pipes, etc. A fine stock of Watches and Jewelry, Muzzle and Breech Loading Shot Guns, Revolvers, Pistols, Parlor Rifles, and Ammunition.

Astoria Liquor Store, AUG. DANIELSON, Proprietor. Water st. Roadway, - ASTORIA, OREGON. Importer and dealer in WINES, LIQUORS. FOREIGN AND DOMESTIC CIGARS. Sole agent for the celebrated STONEWALL WHISKEY.

GERMANIA BEER HALL - AND - BOTTLE BEER DEPOT. CHENAMUS STREET, ASTORIA. The public are invited to call and leave their orders. Splendid Lager 5 cents a glass. Free Lunch every night. WM. BUCK & Co., Proprietors.

NEW TAILORING SHOP. (In A. W. Cone's Building.) WATER STREET, ASTORIA, OREGON. THOMAS CURRY, (Late of Tacoma). BEGS LEAVE TO INFORM THE PUBLIC that he is now prepared to make all kinds of clothing to order, or to renovate or repair clothing. Having had an experience of 25 years, I defy competition in the art of making old clothes look like new. My system is known only to myself, by which I can lengthen pantaloons without piecing, etc. For particulars see small cards. THOMAS CURRY, Tailor, steam-scourer and Repairer.