

SCIENCE AND INDUSTRY.

The fruit growing industry in Oregon is growing very rapidly. The state secretary of horticulture estimates that this fall there are 655,000 acres of pears, peaches, apples and such kinds of fruit in the state; 35,000 acres of prunes and 1,500 acres of berries.

Experiments made by the Italians at Massowah in raising European crops on the Abyssinian plateau have proved very successful. Grain yielded especially good results this year. Plans are made for a greater extension of agriculture in the colony next year.

Silk has been made of the threads of the Madagascar halab spider which has very nearly the same resistance as that made from silk worm cocoons. Experiments made with ordinary spider's web have proved failures owing to the weakness of the threads, but the crystals of the common moth has yielded silk strong enough for a lady's neckerchief.

The temperature of the earth's crust increases at the average rate of one degree Fahrenheit for each fifty feet in descent. At such a uniform rate of increase we find that we must only descend to a depth of something like thirty miles into the bowels of the earth to find heat sufficient to melt any known substance, and that a few miles deeper all rocks and metals must be in a state of white-hot fusion.

There is a variety of the caterpillar of the European Saturnia carpi, with pink tubercles. The moth bred from this larva, by Dr. Dixey, produced caterpillars of which ten per cent had pink tubercles. In this connection Prof. Poulton remarked, states Nature, that he had found caterpillars of Smerinthus ocellatus, with red spots, and that this peculiarity had been transmitted to their descendants.

The accuracy of finger prints as a test of personal identity is well shown by some recent photographs of Mr. Francis Galton, says the Photographic Times. "In a case of twins, their photographs and measurements were closely alike, but the minutiae of their finger prints were quite different. An enlarged photograph of the print of the hand of a child eighty-six days old shows the development of the distinctive little ridges on the skin even at that early age."

What we call light is a wave motion in the ether, and is a transverse movement, too. Molecules have nothing to do with it except to produce it. The waves of ether which affect the eye range from about four hundred millions of millions per second to eight hundred millions of millions per second, the longest wave being what we call red waves, while the shortest is called violet, though it is well known that waves much shorter than those in the common spectrum can be seen by some eyes.

M. Raoul Pictet, the French chemist, who has long been experimenting with intense cold, finds that phosphorescence ceases at very low temperatures. Glass tubes filled with sulphides of calcium, strontium and barium were exposed to the sun and then taken into a dark room where the intensity and duration of the phosphorescence was noted. After being again exposed to the sun the tubes were put into a mixture where by rapidly lowering the pressure their temperature was reduced to minus one hundred and forty degrees; they then showed no sign of phosphorescence, but after a time the upper parts of the tubes which had been least cooled began to glow, and as the temperature rose the light extended, becoming at last as bright as in the first experiment.

CORNSTALK CELLULOSE.

It Promotes to Take the Place of the Imported Cocoa.

Secretary Herbert has ordered that cornstalk be used to fill the coffers of the two big battleships Nos. 5 and 6, the designs of which are being completed. Thus, says the Washington Star, a purely American product will replace the imported cocoa cellulose, which is largely used in all of our modern naval vessels. The order was issued as the result of a careful test of the relative merits of the two kinds of cellulose, conducted by a special board, headed by Constructor Linnard. Two identical iron tanks were filled with the cellulose, one with cocoa and the other with cornstalk. Six and eight-inch shells were fired clear through them, and then the tanks were filled with water to ascertain to what extent the cellulose fulfilled its function of preventing the leakage of water through the shot holes into the interior of the vessel. In a few minutes the cocoa was letting a stream through at the rate of half a gallon a minute, while at the end of an hour and a half not a drop had leaked out of the cornstalk tank. This settled conclusively the water-resisting merits of the new compound.

Another important test followed, intended to compare the inflammability of the two substances, a matter that has come to be regarded as of the first order of importance since the Chinese warships were set on fire by the explosion of Japanese shells. When small shells were exploded in the cocoa, it smoldered first, and was then fanned into flames by a light breeze. The cornstalk cellulose was slightly charred, but could not be ignited, and so scored another point.

Next the tanks were filled with water and left in a warm place for several weeks to determine the chemical effect of their contents upon the hull plates of a ship and upon the hygienic conditions. The cocoa destroyed the paint, corroded the iron plates, and finally decomposed itself. The cornstalk only slightly softened the paint, did not affect the iron plate more than pure water, and, save for a slight mouldering and the emission of an ammoniacal smell, was unchanged and still serviceable. The board also found that cornstalk cellulose cost but seventeen and one-half cents per pound as against twenty-two cents for the cocoa, and as it is lighter and less is required to fill the coffers, it really costs but two-thirds the price of cocoa.

County Expenditures.

Table listing various county expenditures including salaries for clerks, judges, and other officials, along with amounts for various departments and services.

Doings of the Circuit Court.

Assignment of W O Donoghue; E D Briggs assigned; discharged. Jones and Otten vs the Hammersey mining company; to recover money; continued. T S Songer vs J J Donahue; to recover money; continued. W I Vawter vs Tolo Mining company; to recover money continued. Manuel Silva vs Wm Redding; injunction. Judgment by default. Lezman H Tiffany vs Henry Klock; to foreclose mortgage; judgment for \$674.38. W D Hanley et al vs J A Hanley et al; partition of real property; order made for sale of property at public auction. C W Paim vs Geo E Neuber; to recover money; dismissed. L A A Neil vs G W Boggs and C P Jones; to recover money; dismissed as to Boggs and judgment against Jones for \$100.65. State vs Oregon vs Jones & Sims; allowing a minor to play billiards in a saloon; dismissed. Chas Nickell vs Geo Armstrong; judgment for \$100.00 and order for sale of attached property. Albert T Season vs Eva Season; divorce; decree granted. Little Epps vs Geo Epps; divorce; granted. Anna Hayes vs Sherman Hayes; divorce; granted. F M Judd vs Virginia Judd; divorce; granted. State vs John Boland; indicted for the crime of assault with a dangerous weapon cash bail \$100 forfeited. State vs J R Williamson; giving liquor to a minor; verdict of guilty and fined \$50 and costs. Joseph Chapman vs Buth Chapman; divorce; granted. J J Camp vs W G Jenne and C S Jenne; judgment for \$143 and \$50 attorney's fees and lot No 10 blk 16 sunny side in Multnomah county be sold to satisfy judgment. Bill of Frank Kashafer for eight days attorney's fee as bail for April term of circuit court at \$3 per day; total \$24 filed and approved. Jacksonville lodge No 11 O F vs Geo M Love; judgment for \$75.00 and \$20 atty fees. Same vs J A Hanley; judgment for \$100.00 and \$20 atty fees. State vs A Weiler; indictment for practicing medicine without license fined \$50 and costs. In the matter of the estate of Sarah C Wilson an insolvent; D T Lawton assignee ordered to distribute funds to creditors. Wm Carey vs Wm J Freeman; dismissed. State vs Lemon Harley; indicted for opening and reading a sealed letter; arraigned and demurred to indictment filed. W I Vawter adm vs E G Salstrom; to recover money; judgment for \$895. State vs Jordan Brown and John R Harding; indicted for trespassing on a mining claim; defendants plead not guilty and trial set for April 16, 1896. State vs Chas Holmes; indicted for wantonly and maliciously breaking a dam; plea of not guilty and trial set for April 16, 1896. Geo W Isaacs vs John Sergeant et al; sheriff's sale confirmed. Alpha McDowell vs Warren P Dodge et al; sheriff's sale confirmed. State vs John Peninger; assault with an attempt to kill; found guilty.

County Commissioners' Court.

In matter of county road petitioned for by Joshua Patterson et al in dists No 3 and 33. A Alford, Emmet Beeson, Wm Ranzler appointed viewers and R W Kennedy surveyor to meet at the beginning of road Wednesday April 22 and qualify before surveyor. J J Holt was appointed supervisor of dist No 30 by the board of county commissioners. Hospital report filed and approved. Rhoda Miller's allowance increased from \$5 per month to \$10 per month until further order of this court. In the matter of the road petitioned for by Henry Wirth near Central Point. Road ordered opened. Semi-annual statements of county clerk and treasurer for six months ending April 1st, 1896, examined and approved. Independent Gas Newbury reports two dead mutes in the county.

One hundred good envelopes with your name and address neatly printed on them—we furnish the envelopes and do the printing, all for 75 cents.

Gold Hill Items.

Walter Benson was here this week from Rock Point—upon business. Mr. and Mrs. Arthur Fitzgerald, of Medford, are visiting in Grants Pass. Miss K. Fries visited his daughter, Miss Katie, in Gold Hill, last Saturday. Mr. and Mrs. Richards made a visit to their country place this week. N. Fraker, who has been in Medford for sometime, has returned to Gold Hill. Mr. Householder, of the Dardanelles, made a business trip to Gold Hill Tuesday. Will Carter, our town recorder, has his office in Dan Richards' real estate office. Mr. Cook, of Galls creek, was in town on business with Judge Richards, this week. Walter Dungey spent a few days this week with his brother, T. Dungey, on Galls creek. John McClenden, of Sams Valley, was in town Monday and attended Mr. Lee's lecture in the evening. Miss Nettie Dodge has improved the appearance of her building by putting down a strip of new sidewalk. John Bouse has returned from San Francisco and is now at Grants Pass. Whether he has raised the funds he expected to has not been learned. Miss Olive Gordon, of Sams Valley, took Monday evening's train for Grants Pass. She was called there to be with an aunt, who is seriously ill. Frank Heck, who formerly lived here, returned to Gold Hill this week, after an absence of three years. If he finds a business opening here he will send for his family. The surveyor for the Rogue River Water Ditch company came into town last week. Himself and Mr. Hyde, one of the owners, have rented the D. Hyde house for office purposes. Old Mr. Mauzey is very well with la grippe and pneumonia fever. Dr. Drake is in attendance, but as the gentleman is over seventy-two years of age there is little hope entertained of his recovery. The dance at Woodville Friday evening was well attended by several of our young people, among them being Andy and Fred Bailey and Misses Evalyn Merritt and Lizzie Betts. They report a very pleasant time. A special meeting of the city council was called in Judge Richards' office for the purpose of appointing a town treasurer. Oris Crawford was appointed. A petition was presented asking for the repeal of section 1, ordinance 6, also for the repeal of the dog tax law. No action taken. The literary society had only the music in their program at the last meeting. The other part of the program was postponed to make room for a very pleasant talk, given us by Mr. Lee, a California gentleman passing through our town. His talk was upon "Walks and Talks and How Men Wear their Hats," and was very interesting and instructive. The house was crowded. The time of the society's meetings has been changed to Monday evening.

Boils

It is often difficult to convince people their blood is impure, until dreadful carbuncles, abscesses, boils, scrofula or salt rheum, are painful proof of the fact. It is wisdom now, or whenever there is any indication of

Impure Blood

blood, to take Hood's Sarsaparilla, and prevent such eruptions and suffering. "I had a dreadful carbuncle abscess, red, fiery, fierce and sore. The doctor attended me over seven weeks. When the abscess broke, the pains were terrible, and I thought I should not live through it. I heard and read so much about Hood's Sarsaparilla, that I decided to take it, and my husband, who was suffering with boils, took it also. It soon purified our

Blood

built me up and restored my health so that, although the doctor said I would not be able to work hard, I have since done the work for 20 people. Hood's Sarsaparilla cured my husband of the boils, and we regard it a wonderful medicine." MRS. ANNA PETERSON, Latimer, Kansas.

Hood's Sarsaparilla

Is the One True Blood Purifier. All druggists. \$1. Hood's Pills cure liver ills, easy to take, easy to operate. 25 cents.

COURTESY TOWARD WOMEN.

London Far Beyond New York in Recognition of Her Efforts. The international convention, recently held in London, of women interested in the temperance work, was a notable demonstration of the deepening interest which women are taking in all reformatory movements. Probably, says Leslie's Weekly, there has never been assembled in Great Britain a gathering so truly representative of the Christian and philanthropic sentiment of the enlightened women of the world as this, in which one hundred and fifty American delegates actively participated. One of the striking incidents of the convention was that, on the opening Sunday, two hundred London pulpits were occupied by women. But, notable as the gathering was, the London press seems to have given it little consideration, and the notice bestowed upon it was in some cases a great deal more insulting than commendatory in character. One conservative journal characterized the convention as composed of "blatant female agitators to whom taste and propriety are empty terms." When the Christian Endeavorers swarmed down upon this metropolis by the ten thousand, some two or three years ago, the daily newspapers were as much surprised and puzzled by the demonstration as the London journals seem to have been by the women's white ribbon gathering, but New York journalism, instead of criticizing and belittling, welcomed, and devoted itself to setting forth copiously the achievements of the visiting organizations, thereby not only maintaining its self-respect, but earning the hearty gratitude of a vast multitude of readers. English newspapers would do well to emulate this example of courtesy and true journalistic catholicity.

JAKE NOWAK

...Fur A Skin Dresser All kinds of Skins tanned and dressed on shares or cheap for cash. Skins of bear, panther, Angora, etc., made ready for floor mats, with trimmings... Head stuffing a specialty. Coyotes, wild cat, coon, fox, etc., for buggy robes. All kinds of coloring for buckskin. Skins of calf, sheep, goat, dog, etc., made into shoe, oil or kid leather. Advice—Have your skins tanned properly or not at all. Medals awarded by San Francisco Mechanics fair. Several premiums by California state and county fairs.



Florida Orange Cider

The most wonderful summer drink that ever quenched the thirst of man or sweetened the lips of woman. It is the mingled souls of the most delicious tropical fruits. In it you will find the sunshine and shadow that chased each other over the billowy fields; the breath of June, the carol of the lark, the dew of night, the wealth of summer and autumn's rich content, all golden with the imprisoned light. Drink it and you will hear the voice of men and maidens singing.

THE CRATER...



BOLD MONARCH

An Imported Clydesdale stallion, will make the season of 1896 at the following places: Central Point, Monday and Tuesday; Medford, Wednesday and Thursday; Bybee Bridge, Friday and Saturday of each week, at the following rates for service: Single service, \$3; season, \$10; to insure, \$12.50. Persons having mares will miss a good chance by not breeding to the above named horse. Will take a limited supply of hay, grain, potatoes or pork in exchange at market price. Our motto is live and let live. I make this offer so as to reach every one who may want to raise a colt. Examine this horse before you look elsewhere. For any information regarding same, address, C. G. GILCHRIST, Manager, Central Point, Oregon.

...THE MEDFORD...

LAW, CLAIMS AND COLLECTION BUREAU

Special attention given to business of non-residents. American and European correspondents. Inclose stamp for inquiries. S. S. PENTZ, Attorney and Counsellor, MEDFORD, OREGON.

Highest of all in Leavening Power.—Latest U. S. Gov't Report

Royal Baking Powder ABSOLUTELY PURE

In Probate Court.

Estate of James Herd; order for sale of personal property. Estate and guardianship of Frank C Roberts; Emma J Roberts appointed guardian with bond fixed at \$500. Estates of Geo S and Samantha C Walton; ordered that Tuesday, May 5th, be set as day for final settlement. Estate of Frederick F Downing, Sr., Frederick Downing, Jr., appointed administrator with a bond of \$500 and Mike Hanley, W C Daley and Geo Nichols appraisers of the estate. Estate of John Weiss; order for sale of personal property. Estate of Clarence Morrison, second report of guardian; S J Day filed and approved. Estate of A G Colvin; S J Day appointed administrator with a bond of \$2500 and that Henry Dox, Frank Neil and R S Dnnlap be appointed appraisers. Estate of Wm Logan Slaughter; semi-annual report filed and approved. Estate of Wm Kahler; semi-annual statement of C W Kahler adm filed and approved. Estate of Thomas Whelpley; order for sale of real property. Estate of W T Davis; final account of Belinda C Davis executrix filed and approved and she is discharged from further liabilities. Estate of John Cantrell; final account of S A Cantrell administrator filed and approved and she is discharged from further liabilities. Estate of Erastus Wells; order for sale of real property. —Legal blanks at THE MAIL office.

To Build a House

You need lumber, and when you buy lumber you should be sure that you get the very best...

PERRY STEWART

Sells lumber, rough and dressed, lath, shingles, mouldings, sash and doors, pickets and posts, and all other material usually found in a first-class lumber yard. Prices reasonable...

G. W. BASHFORD, Prop'r. E. L. BASHFORD, Manager

Medford Brewery and Ice Works

Our Lager Beer is brewed from pure Malt and Hops PURE DISTILLED WATER ICE

ARE YOU

Going to put up a windmill this summer? If so, you will want an AIR MOTOR... We are also Agents for.... Buffalo Pitts Steam Threshers

Sub-Irrigation...

Brooks the Tinner for Particulars

ARE YOU

Going to put up a windmill this summer? If so, you will want an AIR MOTOR... We are also Agents for.... Buffalo Pitts Steam Threshers

THE CRATER...

Mingled with laughter of children. For years this liquid joy has been within the happy staves of oak, longing to touch the lips of man. This delicious drink can only be found at...

ARE YOU

Going to put up a windmill this summer? If so, you will want an AIR MOTOR... We are also Agents for.... Buffalo Pitts Steam Threshers

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Going to put up a windmill this summer? If so, you will want an AIR MOTOR... We are also Agents for.... Buffalo Pitts Steam Threshers

MISTLETOE..

This Standard bred Trotting Stallion will stand for the season of 1896, at the barn known as the G. L. Davis stable, Medford... MISTLETOE Is a dark bay; weighs 1200 pounds; black above knee and hocks; foaled at Springfield, Ill., Sept. 6, 1886.

PEDIGREE:—Sired by Raymond, son of Socrates, 4-year-old record 1:34, and sire of Socrates, roan gelding, 2:27, by Rysdyk's Hambletonian, sire of Dexter, 2:17, Nettie, 2:18, Orange Girl, 2:20, Gazelle, 2:21, Jay Gould, 2:21, and thirty-two others with records of 2:30 or better. First dam, May Alexander, by Herr Alexander, son of Mambrino Pilot, 1:27, and sire of Hannis, 2:17, Mambrino Gift, 2:20, Emulus, 2:25, David Wallace, 2:28, and Morning, 2:30; son of Mambrino Chief, sire of Lady Thorn, 2:18. Second dam, Old Fly, by Banner Chief, sire of the dam of Corban's Bashow, 2:26, of Mambrino Chief.

TERMS, SEASON, \$15

Due at end of season or when mare is disposed of or removed from the neighborhood. Care will be taken to prevent accidents but I will not be responsible should any occur.

SPENCER CHILDERS, Owner

S. BRADBURY, Manager.