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FACTS ABOUT COAL

The United States was during the coal period, a low swampy level, not unlike the lagoon district of Louisiana. There were also probably scores of such swamps as the Dismal swamp of Virginia, which has an area of 600 square miles, and a depth of 10 to 30 feet black mold or peat in a pasty state. These swamps differ in size as well as in kinds of trees, reeds and ferns growing in them. Some marshes have slow floating water; others stagnant water. Peat was accumulated by means of a microscopic plant (sphagnum palustre), and centuries were required to form a deposit of 30 or 40 feet. The swamps with flowing water would be mingled with foreign material, while the stagnant marshes would increase only in pure carbon. When a vast area was submerged, 100 fathoms of water above it, the pulpy peat bed, 30 feet thick, was reduced to a few feet of coal. The clay next to the coal absorbed enough carbon to become fire-clay. Pressure and heat resolved the upper layer of clay into slate and soapstone. We have thus underlying fire-clay and overlying slate the precise order in which we find nearly all coal. Then the land is raised to a higher level and becomes a permanent part of the continent. The swamps in which there were bayous or flows of water would give impure and slaty coal. The purest coal would be found in the still waters of lagoons. Thus was formed, probably, the Briar Hill coal, the block coal of Indiana, and the semi-block coal of Wilmington and Braidwood. Coal contains the greatest store or amount of heat in the smallest compass, and yields it in the largest quantity at the least cost, and besides, it is most universally distributed through all countries. It is, in short, the cheapest source of that wonderful power, steam, which is the basis of the world's progress. No ordinary combustible substances have a heating power equal to it. The melting point of iron is 3,749 deg. (Fahr.), far beyond the heating power of wood. But coal has dominion over iron and all its ores and forms, with a surplus heating power of nearly 1,000 deg. Had the heat power of coal been limited to 1,000 deg. lower, or the melting point of iron established 1,000 deg. higher than it is, the entire human race would have remained savages or barbarians until this day. The concentration of heat power in coal can be in some sense appreciated when it is stated that the power developed in the combustion of five tons of coal represents the physical energies which a man is able to exert by laboring ten hours a day for fifty years.

The grain of coal, the drop of water, and the atom of iron are the triumvirate that have ushered in what is to be a grand millenium in human history. It is scarcely fifty years since the dawn of this era, yet in that time what a revolution has been wrought. If it had been prophesied 3,000 years ago that a grain of coal would some time evoke from a drop of water a power that can be so distributed and applied that it will do all the drudgery of the human race; so subtle and powerful that it will spin and weave, plow, plant, harvest, and carry the golden grain to market; dig canals and cellars; build railroads and forts; excavate mines and shafts; forge anchors and spider-webs of steel; in short, form and fashion all material for all uses, with what wonder would we have regarded the fulfillment of this prophecy. But all this was

foretold in the constitution of coal and iron. These are prophetic of the human period in the earth's history—of the coming race of man who should combine these properties in most perfect action.

Beauty in the Sea

A naughty correspondent of the Atlanta Constitution who has been passing a holiday at the seaside thus describes his impressions: Surf-bathing is a revelation! I went in yesterday with a lovely and modest woman from the North, with whom I had but a short acquaintance, although I had seen a good deal of her. As we stood awaiting the coming of a huge wave, she clutched my arm, and poising on one foot bent the other leg and pulled her stocking over her knee—trying vainly to make it cover a strip of white. She thought nothing of this—neither did I. In an instant the wave was on us, and we were riding the swell as happy as a pair of ducks. That evening this lady went sailing with the same party that went bathing with her in the morning. As she stepped over the side of the boat she exposed about four inches of her pretty silk stockings, and her face was crimsoned with shame and mortification.

Now, why this difference? It was exactly the same limb that had been exposed to the knee all the morning without any thought of confusion. As I came into the hotel corridor yesterday a young lady screamed: "Shut the door! Quick! There's somebody coming!" She had put on her bathing suit for a trial trip in her mother's room, and was horrified that a man should see her in that fix. A half hour later she and I were lying on the beach, the waves curling over us at every throb of the sea, and she, with her shapely figure bended, was writing her name in the sand with her toes, while her merry laugh rang above the roar of the waves.

But if the dressing on the beach and the unconsciousness with which the most modest of the girls stand the exposure consequent upon it is remarkable, the conduct of a crowd in bathing is more so. That is a miracle of social life, I think. The girls clad in this prinkingly pretty dress—the passing pressure of the waves continuing the curves of the body—with the warm flesh glowing and throbbing beneath the single garment—the girls thus attired, ran hand in hand in the water with their sweethearts, and romp and frolic, and are ducked and hauled out by their feet, or are clasped around the waist, or catch the fellow about the neck as a big wave comes—and yet there is not the slightest prurient suggestion, and no hint of gallantry. I don't believe a scandal was ever born in the surf. I cannot conceive a sentimental attitude amid the rolling breakers.

I am compelled to confess that a month at the seaside does not confirm the general ideas of feminine symmetry that all gallant men are supposed to entertain. It is the rarest thing to find a girl with straight limbs, graceful carriage, firm flesh, full chest, and unrestrained attitudes and poses. In a majority of cases they are wabbly and uncertain; with a stoop in the shoulders, a mincing step, toes turned in (the number of pigeon-toed girls developed here is positively alarming), and general debility of gait and flabbiness of attitude.

That was a happy suggestion of our friend Jones' four-year-old hopeful, who instantly prescribed St. Jacobs Oil for his grandmother, who was limping around with rheumatism.

The Slave Trade on the Nile

Swedish missionaries in Nubia report that they have lately experienced much opposition from the Egyptian agents and officers in the Upper Nile valley, who exceedingly dislike Europeans on account of their hatred of the slave trade. A very extensive slave trade is carried on by Egyptian and Turkish merchants in the region south and west of the Blue Nile. Troops of negroes are brought northward in chains. Those who prove too weak for the journey are either abandoned without mercy to perish with hunger or wild beasts, or their drivers at once kill them.

The girls are sold to the harems of wealthy Egyptians or Turks, while the men and women are disposed of as servants. There is also a steady demand for male negroes of a certain class for attendants and guardians of the Mohammedan harems; but a great proportion of these men die from the injuries sustained in the preliminary training for the duties of this office. The Swedish missionaries have been compelled to return to Khortoum, instead of penetrating southward, as they had intended. The Egyptians regard the missionaries and all whites as spies upon the opponents of the barbarities connected with the extensive slave traffic with the interior.—*St. James Gazette.*

Railroad Notes

Track is being laid on the Northern Pacific at the rate of twenty miles a day.

It is estimated that 400,000 persons were employed in 1881 in the construction of new railways.

The seventy-mile gap on the Northern California and Oregon railroad will occupy two and a half years to build.

The Pennsylvania Railroad Co. has in service west of Pittsburgh, 34,600 cars, according to the official report of July 1st.

The dividends paid by railroads last year amounted to \$1.52 per inhabitant. The earnings of all the railroads were \$225,000,000.

It is estimated that there are at least ten brakemen killed throughout the country every day in the year.

The latest freight car in the market is thirty-four feet long and eight and a half wide—weighing 27,000 pounds, with a capacity of 54,000 pounds.

The locomotives of the world represent together a power of over 20,000,000 horse-power, and the steamships over 4,000,000 horse-power.

The first railroad on which a steam locomotive was used, in 1825, was the Merthyr-Tydfil railway, in the north of England. Stephenson put his on the Killingworth Railway in 1814, and passenger carriages were first used on the Stockton & Darlington Railway, in 1825. Wooden tramways were used in the mines in northern England as early as 1602.

Texas railroads are in trouble. The law forbids them to charge any fraction over three cents per mile, and they have no cents in that country to make change with, the smallest coin used being a nickel. The penalty for taking anything over the legal rate is \$50 for each offense, and to avoid violating the law they are obliged to frequently give more than the right change to customers—aggregating a heavy loss every day since the law went into effect. The roads are now arranging for cents by the barrel.

—The purity and elegant perfume of Parker's Hair Balsam explain the popularity of this reliable restorative.



THE GREAT GERMAN REMEDY FOR

RHEUMATISM,
Neuralgia, Sciatica, Lumbago, Backache, Soreness of the Chest, Gout, Quinsy, Sore Throat, Swellings and Sprains, Burns and Scalds, General Bodily Pains, Tooth, Ear and Headache, Frosted Feet and Ears, and all other Pains and Aches.

No Preparation on earth equals St. Jacobs Oil as a safe, sure, simple and cheap External Remedy. A trial will convince you of its efficacy. It is sold in bottles of 50 Cents, and every one suffering with pain can have cheap and positive relief by its use.

Directions in Eleven Languages. SOLD BY ALL DRUGGISTS AND DEALERS IN MEDICINE. **A. VOGELER & CO.,** Baltimore, Md., U.S.A.

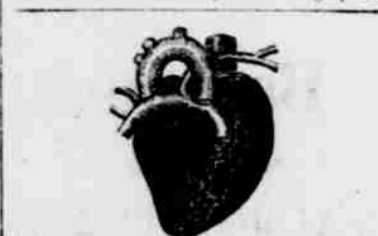
SHORT BITS.
A New Jersey law has been passed giving every member of the legislature the privilege of traveling on the railroads within the state free. Why not extend the privilege to hotels, boarding-houses and bar-rooms?

There is a tender and true story told of Walt Whitman; at the funeral of a little child, a nephew, the poet sat near the coffin, and held on his knee a beautiful little girl; she looked in childish wonder upon the paraphernalia of death, and then inquiringly gazed into the old man's face. "You don't know what it is my dear, do you," said the poet gently; then he added reflectively: "Neither do we!"

MOTHERS, READ.

QUESTIONS—About nine years ago I had a child two years old and almost dead. The doctor I had attending her could not tell what ailed her. I asked him if he did not think it was worms. He said no. Then ever, this did not satisfy me, as I felt convinced in my own mind that she had obtained a load of DR. C. McLANE'S CELEBRATED VERMIFUG. One morning I gave her a teaspoonful of the medicine, and another night she vomited out two or three worms and was a well child. Since then I have never been without it in my medicine chest. The health of my children remained so good that I had neglected watching their actions until about three weeks ago, when two of them presented the same sickly appearance that Fanny did nine years ago. So I thought I must be wrong, and I gave them a dose of a bottle of DR. C. McLANE'S VERMIFUG between four of my children, their faces brightened up, and they were five and Johnny about six months. The result was so gratifying that I spent two days in showing the worms to all your friends around the city, and now have the worms on exhibition in my store. Yours truly, JOHN PETER.

The genuine DR. C. McLANE'S VERMIFUG is manufactured only by Fleming Bros., Pittsburgh, Pa., and bear the signatures of C. McLANE and Fleming Bros. It is never made in St. Louis or Wheeling. Be sure you get the genuine. Price, 25 cents a bottle. FLEMING BROS., Pittsburgh, Pa.



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It is not "a cure all." It is a blood-purifier and tonic. Impurity of the blood poisons the system, deranges the circulation, and thus induces many disorders, known by different names to distinguish them according to effects, but being really branches or phases of that great generic disorder, **IMPURITY OF BLOOD.** Such are *Dyspepsia, Indigestion, Liver Complaint, Constipation, Nervous Disorders, Headache, Backache, General Weakness, Heart Disease, Dropsy, Kidney Disease, Piles, Rheumatism, Catarrh, Scrophulous Skin Diseases, Phlegm, Ulcers, Strabismus, &c.* **King of the Blood** prevents and cures these by attacking the cause, impurity of the blood. Chemists and physicians agree in calling it "the most genuine and efficient preparation for the purpose." Sold by Druggists, \$1 per bottle. See testimonials, directions, &c., in pamphlet, "Treatise on Diseases of the Blood," wrapped around each bottle. D. RANSOM, SON & Co., Props Buffalo, N. Y.

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CHEMAMUS STREET, ASTORIA.
THE UNDERSIGNED IS PLEASED TO announce to the public that he has opened a
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And furnishes in first-class style OYSTERS, HOT COFFEE, TEA, ETC. AT THE Ladies' and Gent's Oyster Saloon, CHEMAMUS STREET.
Please give me a call. ROSCOE DIXON, Proprietor

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ST. HELEN'S HALL, ART DEPARTMENT.

THE COURTS OF TEACHERS LONG ENGAGED in St. Helen's Hall has just been reinforced by the addition of six new teachers, five of whom from prominent educational institutions of the Eastern States. Two of these are engaged in the Musical Department, three in the English and one (MISS FULLICK) in the Art Department. MISS FULLICK is a lady of English birth, but educated in this country. She was graduated at Vassar College, and has since spent much time in the best private studios in the Eastern States. She comes with the highest recommendations for her attainments and skill as a teacher of Painting and Drawing. These cover the whole ground of instruction in the best Art Schools, embracing Oil Painting in Landscape, Flower and Still-life Studies; Crayon, Charcoal, Water Colors, Pen and Ink, and Decorative Art in all its branches.

MISS FULLICK is a lady of liberal education and superior culture, and the Rector and Principal of St. Helen's Hall recommend this department of their school to the patrons with entire confidence, being well assured that it was never under a more competent instructor, or one of more varied acquirements. \$2.50 per month.

Equalization of County Assessment.

NOTICE IS HEREBY GIVEN THAT the Assessment roll for the year 1882, will be completed by the 1st Monday in October, 1882; and the County Court pursuant to law is fixed that day as the time for all persons interested to examine the same at the County Clerk's office in the Court house in Astoria, in said county, and to note objections thereto, if any there shall be. W. W. PARKER, County Assessor for Clatsop Co., Or. Astoria, Oregon, September 20th, 1882.

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Look at the prices:
Pants to order from - 88 00
Pants, Genuine French Cassimere - 12 50
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The finest line of samples on the coast to select from. P. J. MEANY, Cass street, next to Hansen's jewelry store.

Health is Wealth.

Dr. E. C. WOOD'S Nerve and Brain Treatment: a specific for Hysteria, Dizziness, Convulsions, Nervous Headache, Mental Depression, Loss of Memory, Spasmodic Hoarseness, Impotency, Involuntary Emissions, Premature Old Age, caused by over-exertion, self-abuse, or over-indulgence, which leads to misery, decay and death. One box will cure recent cases. Each box contains one month's treatment. One dollar a box, or six boxes for five dollars; sent by mail prepaid on receipt of price. We guarantee six boxes to cure any case. With each order received by us for six boxes, accompanied with five dollars, we will send the purchaser our written guarantee to return the money if the treatment does not effect a cure. Guarantees issued only by W. E. DEMENT, Druggist, Astoria, Oregon. Orders by mail at regular prices.

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- E. C. HOLDEN,** NOTARY PUBLIC, AUCTIONEER, COMMISSION AND SURANCE AGENT.
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- GEO. F. PARKER,** SURVEYOR OF Clatsop County, and City of Astoria. Office - Chenamus street, Y. M. C. A. hall, Room No. 8.
- J. O. ROZORTH,** U. S. Commissioner, Notary Public, and Insurance Agent.
- Agent for the Hamburg-Bremen Fire Ins. Co. of Hamburg, Germany, and of the Travelers' Life and Accident Ins. Co. of Hartford, Conn. Office in Pythian Building, Rooms 11, 12.
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- Notice to Builders.** PROPOSALS WILL BE RECEIVED AT the office of the Point Adams Packing Company, until noon, Tuesday, September 20th, 1882, for furnishing the material, and building of a cannery on the property of said company. Plans and specifications can be seen at the office of A. W. Ferguson, No. 3, Pythian building. Proposals may be addressed to Box 200. The right to reject any or all bids reserved. J. C. LIDWELL, President.
- BOOKS** FOR THE PUBLIC SCHOOLS! **CARL ADLER.** A complete stock of School Books and school supplies. Any book used in the public schools of Clatsop County can be obtained at my store. **CARL ADLER.**