

We are Going to Celebrate; Are you?

The Fourth of July will soon be here, and if you have not yet purchased your holiday attire it will be to your advantage to do so at once. Remember, delays are dangerous, and the prettiest goods are being sold now. Get your dress while you have an assortment to select from.

THE MAGNET CASH STORE

Clements & Wilson.

Court and Cottonwood



FRIDAY, JUNE 28, 1901.

There is a milk trust in the east. Watering its stock would not be out of the usual order.

The man with the fish pole and the rubber boots is still doing business along the splendid trout streams of Eastern Oregon.

A judge in Canada has recently decided that American divorces are not good in that country. The fact of the matter is they are considered rotten at home.

A Texas man died of heart failure when he discovered there was oil on his farm and he was rich. It does not do to become rich too suddenly. It is far safer on the installment plan.

The steamship subsidy bill promises to come up at the next session of congress. Why not, it is Mark Hanna's favorite measure. He promised those interested that it should become a law.

The golden harvest is near at hand in the inland empire and there will be 40,000,000 bushels of wheat for it to pour in the lap of the world's markets. The price alone is not what it should be.

It has been announced in England that the coronation ceremonies will occur next June. There will be eleven months for preparation. It is to be hoped that this will give certain maniacs on both sides of the water plenty of time to take it in.

The east during the past week has suffered greatly from a hot wave. There have been many deaths from heat. While this was going on there, out here in Oregon the weather has been just perfect, a little too cool for picnics but just right for everybody. Such is our climate.

Miss Sartoris will not marry Mr. Balfour. There is no explanation. But society on both sides of the water is all in a flutter about it. It is a pity that some people do not have more to do. If men did not die rich and thus permit their children to live in idleness there would be more virtue and less gossip.

The North German Fire Insurance company has retired from doing business in the United States except in Chicago and the Pacific coast. No insurance company cares to give up Pacific coast business, because the rates charged on the coast are excessive compared to those charged for the same risks in the east.

Germany's future rests upon the water, declared Emperor William a few days ago. That may be so, but the whole world is imbued with the impression that it rests a good deal upon beer. What would Germany amount to without its beer. We have yet to see the first German who had any real confidence in water. The German emperor almost stands alone in thus putting himself on record.

The wife of a Chicago man went across the Atlantic with a party of friends, and was so homesick all the way for her husband and two children that she took the next boat back again for her native land. She is said to have shed tears like a Niobe, both going and coming, and otherwise departed herself like an old-time wife and mother. Who would have thought that a woman like this would come out of Chicago?

For a people who were so completely whipped about a year ago, the Boers are very much alive. It does appear as if England will lose her advantage in South Africa. The fact that the flow of gold from the South African mines into her markets and coffers has stopped, or is greatly diminished by the war is one of her greatest handicaps and one that is being increased all the time. In short, it is affecting the trade of the whole world, while eating into the vitals of Great Britain. The trouble may be met for some time by borrowing, but prolonged long enough it will bring about financial disaster, which will almost be fatal to England's reign in South Africa.

Judge Lowell is modestly feeling his way as a candidate for governor. The judge would make a very acceptable governor. As a republican he is clean and fearless, and this is the barrier to his nomination. No clean and fearless man, particularly from Eastern Oregon, is wanted by the leaders of the republican party in the gubernatorial office. The man who gets the nomination as a candidate of the republican organization must consent to be bound

and gagged by the machine in Portland. Judge Lowell stands little, if any, show of the nomination, because he will not enter into a bargain for the office. If he would do so, he might secure it, and an Eastern Oregon man would at last be governor of Oregon. But why discuss the impossible and the impractical? Eastern Oregon republicans are well within the traces and will have to pull with the machine, whether they want to or not, and those in the saddle are not caring for their efforts or interested in their ambitions.

WEALTH MADE BY CHEMISTS.

The expert chemist is an important figure in the industrial world today. He can earn not only fame, but also a large income, and he saves manufacturers many millions of dollars every year.

Of course, nine out of ten chemists stick to the old routine, but the tenth goes in for industrial chemistry, and either allies himself to some progressive and flourishing manufacturer or independently conducts his industrial experiments and spends his time and brains in devising schemes for the utilization of by-products.

One doesn't talk much about waste products now. So little is wasted that it doesn't deserve mention. The Chicago joke that the packing houses utilize everything about the pigs save their squeals, and are planning to make the squeals into whistles, has more point than most Chicago jokes. Probably the great slaughter houses furnish the most familiar illustration of the modern thrift in the utilization of what was formerly considered waste; and even the small abattoirs, while they haven't attained the scientific perfection of the Chicago packing houses, are reformed characters.

It was only a few years ago that the abattoir was usually built upon the bank of a stream and all refuse was washed into the stream. In course of time neighbors were inconsiderate enough to protest against the practice. Sanitary bees invaded innumerable bonnets, and a howl of protest went up against the abattoirs. It was necessary to dispose of the refuse in some fashion. Chemists were called in.

Methods for drying the refuse and extracting all grease were developed. The grease went into the manufacture of soap. The residue was converted into fertilizer. After jelly had been made from the hogs, the hogs and horns were used for buttons, knife handles, etc. The health of the neighborhood and the income of the slaughtermen went up.

The development of the tremendous aniline color industry is altogether due to chemical experiment with waste product. In the dry distillation of coal or wood for gas, the gas passes through a succession of washers, which take out its impurities. These impurities, including ammonia, carbolic acid, acetic acid and various nitrogen compounds were formerly waste, but are now separated and used. In fact, nearly all of the acetic acid in the market is secured from the dry distillation of wood.

Five per cent of the coal used in gas manufacture is coal tar, and by experiment chemists found that this coal tar, always regarded as waste residue, contained substances useful in the making of dyes. Fully 10 per cent of the weight of the coal tar is available for this purpose, and upon the basis of this discovery the enormous coal tar color industry has grown. New plants have been put into many of the coke regions to collect the coal tar liberated in coke manufacture, and it will not be long before the open coke oven will be a thing of the past. Where coal is burned in an open oven no coal tar can be collected and large profits are literally thrown away, but by burning the coal in closed retorts all the coal tar can be recovered and used.

This color industry, which chemists call the greatest of the modern chemical industries, has called for other chemical developments. It demands large quantities of sulphuric acid, of soda, etc., and chemists have sharpened their wits upon the problem of obtaining these products at a minimum expense.

Until recently the greater part of the sulphur used in this country was imported from Sicily. Now, through chemical processes, the sulphur contained in gold, silver and zinc is liberated and burned to sulphur dioxide, from which almost all of our sulphuric acid is made.

In connection with all of our mining development, chemistry has played an important part. Ore can be mined with profit today that would have been practically worthless a few years ago. In the old mining days only high grade ore was profitable, and only a certain percentage of the gold contained in the ore was freed.

The tailings thrown aside held a considerable quantity of gold, but could not be worked by the ordinary processes, so were piled mountain high and disregarded until chemists discovered that the gold was soluble in potassium cyanide, and that by washing in a very weak solution of potassium cyanide, the tailing gold could be profitably separated from the refuse. The same process has led to the working of low grade ore, running \$4 or \$5 to the ton, which could not be profitably worked by the ordinary mining processes.

The silver contained in lead has also been freed and utilized. It was found by chemists that when the molten lead was mixed with zinc the silver formed an alloy with the zinc and floated to

the surface. When this mass was taken from the lead and heated in a retort, the zinc, being volatile, was freed and left a deposit so rich in silver that it was easily purified.

The application of chemistry to mining processes are legion, but it is in other branches of industry that practical chemistry is now making its strides. The Standard Oil Co. is a hardy exponent of the merits of industrial chemistry and has expert chemists constantly employed. As for that matter, so have all the great gas plants, coke plants, sugar refineries, starch factories, etc.

The original waste of the oil business was enormous; now it is next to nothing. Of course, the primary aim is the production of kerosene, but crude oil contains on the one side, oils lighter than kerosene, such as gasoline, naphtha, and, on the other side, products much heavier than kerosene, such as paraffin. At one time all of these by-products were waste; now every one of them is utilized.

By first distillation, the lighter oils are freed and collected. Then the kerosene is distilled, leaving a product that is worked over into hard paraffin and soft paraffin or vasoline. A heavy oil left after the collecting of the paraffin is used for lubricating and fuel, and much of it being made into car and axle grease. After all these processes a solid mass of carbon is left in the retorts, and this is used to a considerable extent in making carbon sticks for electric light.

When one considers that until a few years ago every one of these products was kerosene was absolute waste, one can realize to some extent the place chemistry is taking in the industrial world!

The dairy business is one of the industries with which the chemist is busying himself, and the results so far have been most satisfactory, although a much broader field for the use of casein is prophesied. The large creameries having turned out their cream and butter, were confronted by great quantities of skim milk for which there was apparently no use. Skim milk was a drug on the market and in many cases was drained off into neighboring streams.

The chemist stepped in and changed all that. The milk is curdled with alkali and a dried product produced which is soluble in water. This casein has been used for paper making, knobbying, etc., and successful experiments have been made with it in the manufacture of artificial foods. Moistened with water to a gelatinous consistency, put under a hydraulic press and then washed in acid, it forms a hard and insoluble substance, of which buttons and similar articles are made. Chemists say that the casein powder which is like a fine tasteless flour may be substituted for milk in cooking, and has a great future in this respect.

Chemistry applied to the sugar industry has been invaluable, and, particularly in connection with the beet sugar manufacture, has recently effected a wonderful saving. The waste in the making of beet sugar was at first enormous, because the molasses was absolute waste. It contains products from the beet roots which give it a very bitter taste, and is also rich in an alkali which spoils its flavor. So, although more than one-half of the weight of the molasses was sugar, it was unavailable save for fermentation and alcohol.

Experiment proved that dry lime, mixed with the molasses, combined with the sugar, forming a product insoluble in water. Washing the molasses would then separate this product from all the other elements. The lime and sugar product being heated with carbonic acid, the lime combined with the carbon, forming an indigestible product, and leaving the sugar free to be easily separated. By this process today 90 per cent of the sugar is recovered from beet molasses and there is practically no molasses in the beet sugar factories.

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Made from the choicest California figs, prunes and selected grains.

A delicious, strengthening beverage—holds its delicate flavor to the bottom of the cup.

Physicians recommend Figprune.

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Bar and Billiard Rooms.

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FIVE LINES. 1 time.....50c
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PHYSICIANS. DR. W. G. COLE, OFFICE IN JUDGMENT. Office hours, 10 to 12 a. m. 1 to 3 p. m. Telephone 77.

F. W. VINCENT, M. D., OFFICE REAR of First National Bank. Office hours 10 to 12 a. m. 1 to 3 p. m.

DRS. SMITH & HENDERSON, OFFICE over Pendleton Savings Bank. Telephone 31, residence telephone 32.

H. S. GARFIELD, M. D., HOME PATH. in Physician and Surgeon. Office in Judge's building. Telephone: Office, black 71; residence, black 24.

J. L. MILLER, M. D., DESPAIN BLOCK. treats and corrects eye troubles, cataracts, cataracts and impaired vision. Glasses properly fitted for refractive errors.

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ARCHITECTS AND BUILDERS. T. F. HOWARD, ARCHITECT AND SUPERINTENDENT, makes complete and reliable plans for buildings in the city or country. Room 17, Judge's building.

SHREK & COLE, CONTRACTORS AND BUILDERS. Job work a specialty. Prompt service. Shop on Bluff street, near Main street.

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A. L. BEATTIE, D. D. S., OFFICE OVER Savings Bank. Gas administered.

E. A. MANN, DENTIST, IN ASSOCIATION with F. E. Clifton's office.



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O.R.&R. OREGON SHORT LINE AND UNION PACIFIC

DEPART FOR Time Schedule From Pendleton

Chicago, Portland, 5:20 p. m. via Huntington.

Atlantic Express, 5:10 a. m. via Huntington.

St. Paul, 5:10 a. m. via Spokane.

Walla Walla, Lewiston, 5:10 a. m. via Spokane.

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