

DEMOCRATIC STATE CONVENTION.

The Democratic State Convention for the State of Oregon is hereby called to meet at Pendleton, Umatilla county, on Tuesday, April 3, 1888, for the purpose of nominating a candidate for member of Congress, a candidate for Judge of the Supreme Court, six delegates to the National Democratic Convention and six alternates; to ratify the various district nominations, and such other business as may properly come before the Convention.

Said Convention will be composed of 155 delegates, apportioned to the various counties on the vote cast for candidate to Congress at the election of 1886, being one delegate for each county and one for every 250 and fraction over 100 votes so cast.

In accordance with said apportionment, the respective counties will be entitled to the following representation:

Table listing counties and their number of delegates: Baker, Benton, Clackamas, Clatsop, Columbia, Crook, Curry, Gilliam, Grant, Jackson, Josephine, Klamath, Lake, Lane, Lincoln, Malheur, Marion, Morrow, Multnomah, Polk, Tillamook, Union, Wasco, Washington, Wallowa, Yamhill, Total: 155.

DEMOCRATIC COUNTY CONVENTION.

A Democratic County Convention is hereby called to meet in Pendleton, Umatilla county, on Saturday, March 24th, for the purpose of electing eight delegates to the Democratic State Convention, to be held in Pendleton April 3d, 1888, and for the purpose of nominating a full Democratic county ticket, to be voted for at the next election; and to transact any other business that may properly come before the convention.

The convention will be composed of forty-five delegates, apportioned among the several precincts as follows:

Table listing precincts and their number of delegates: Adams, Canas, Cottonwood, Elk, Milton, North Pendleton, Union, Yonah, Total: 45.

It is also recommended that primaries for the election of delegates to said convention be held in the various precincts on the 17th day of March, at 2 o'clock p. m., except in Pendleton, where it is recommended the polls shall be opened at 11 o'clock a. m.

SCIENTIFIC MISCELLANY.

ELECTRIC POWER IN SWITZERLAND. Two electric motors at Solothurn, Switzerland, are driven by a current generated five miles away, where two dynamos receive thirty horse power of energy from a waterfall. Tests of the efficiency of the system were made last October, and the report of the committee of eminent experts has lately been published, showing that, with both generators and both motors running, the loss of power in transmission was only about twenty-five per cent. With one generator and one motor, the loss was thirty-two per cent.

GREAT REFRACTORS. Of the world's refracting telescopes nine have operated exceeding twenty inches, viz.: Lick Observatory, Cal., thirty-six inches; Pulkovo, Russia, thirty inches; Yale College, twenty-eight; Lickrow, Vienna, twenty-seven; University of Virginia, twenty-six; Washington Naval Observatory, twenty-six; Gateshead, Eng., twenty-five; Princeton, N. J., twenty-three; and Buckingham, London, Eng., twenty-one. Six of these instruments are the work of the American firm of Alvan Clark & Sons.

A NEW LAW. In recent experiments alloys have been formed by pressure, but Mr. Wm. Hailcock, of the U. S. Geological Survey, finds that alloys may be produced from their powdered constituents, without pressure, at a temperature above the melting point of the alloy but below that of the constituents, the molten alloy being allowed to lie in contact. In this curious discovery he claims a new law of physics, which he proposes soon to verify further.

A Zurich institution has offered a prize of two thousand dollars for new investigations of the relation which the formation of the bones bears to the statics and mechanics of the vertebrate skeleton.

The so-called "American" trout is thriving in Norwegian waters, and attempts are to be made to acclimatize black bass obtained from America.

COFFEE IN JAVA. Disease of the coffee plant caused many successive failures of the crops in Ceylon, ruining many planters and producing great distress, and ultimately led to the growing of tea in place of coffee. A like revolution in planting may have been averted in Java by a recent timely discovery. Dr. Bursk, of the Botanic Gardens at Buitenzorg, has found that an attenuated solution of chloride of iron prevents the disease when applied to the under side of the leaves, while brushing with strong sulphuric acid kills the germs in the spots that may be seen on the plants already attacked. These specifics will be somewhat expensive, but, if suc-

cessful, will prove an inestimable boon to Java planters. UNEXPLAMABLE WOOD. At the instance of the Belgian Minister of Public Works, Messrs. Boudin and Donny have investigated the subject of rendering wood fire proof. They report that the resistance of wood to heat may be considerably increased, though absolute incombustibility cannot be secured. The resisting material must take the form of an injection into the fibers of the wood or of a coating; and it must not be too expensive, non-corrosive, speedy in becoming fixed, easily applied, neat and unalterable. An injection of a concentrated solution of ammonia is recommended as the best treatment for small pieces of wood; but a more generally available plan is coating with cyanide of potassium or asbestos paint.

The scent of bloodhounds is dull compared with that of certain male moths. Mr. C. H. Plesse, in a late work, states that if a newly-emerged female Saturnia carolina is placed in a closed box, the males will come from nearly a mile away, though hills and buildings intervene, and have even found their way down a chimney to the object of their search.

The first complete fossil skeleton of a whale, found under ten feet of marl in south of Sweden, has just been presented to the University of Upsala.

ELECTRICITY AS A MEASURE. Electricity is no longer used in a haphazard way, as it was a few years ago, but it is accurately measured out for the work required of it, its quantities, according to Prof. Wm. A. Anthony, being comparable to those of more ponderable gas, oil or water. Its quantity, measured in units called coulombs, may be considered as analogous to pounds of gas or liquid; potential, measured in volts, analogous to pounds per square inch of fluid pressure; capacity, measured in farads, analogous to the feet of a vessel for holding fluids; while the strength of current, measured in amperes, finds no close analogue in fluid measurements, though this is perhaps the most important of all, and furnishes the fundamental unit of the whole system. Another very important quantity is the resistance of bodies in the flow of electricity, which may be compared, qualitatively, to the frictional resistance which fluids experience in flowing through pipes, and is measured in ohms.

For a thousand years, at least, Chinese has been the most used language on the globe. Prof. Kirchhoff, of Halle, finds that it is now spoken by over 400,000,000 people, Hindustani, which comes next in extent of use, by over 100,000,000; English, by about 100,000,000; Russians, by over 70,000,000; German, by over 57,000,000; and Spanish, by over 47,000,000.

In a new and curious experiment, a disk of iron, with a spindle through it so that it can be spun like a top, is attracted by the poles of a magnet when at rest or moving spinning with sufficient velocity. The reaction of the induced currents exceeds the magnetic attraction.

The story of the deep sea is an expensive one. The cost of compiling and publishing the reports of the Challenger expedition is said to have already exceeded \$200,000, the work being still unfinished.

NEW STORE! JUST OPENED, Main St., Pendleton, (Next to Masonic Building) A COMPLETE LINE OF Gent's Furnishing Goods, C. W. Brownfield

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