

# The Daily Astorian.

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No. 95.

## THE STRUCTURE OF THE CASCADE MOUNTAINS.

The alleged slipping of the basaltic mountains toward the Columbia river, at the point where the river cuts through the Cascade range, has been attributed to the slope of the underlying sandstone. It is more probable that the slip is upon one or both of the pasty conglomerate beds above and below the sandrock. The structure of the mountain has been studied by Professor J. LeConte, whose description is quoted below in the lately published report of Lieutenant Symons' examination of the upper Columbia river.

There is found: 1. Along the water's edge, and for about fifteen feet upward, a very coarse conglomerate of rounded porphyritic pebbles and boulders of all sizes, up to six feet in diameter, cohering by an imperfectly lithified earthy paste.

2. Above this conglomerate is a very distinct, irregular old ground surface bed, in which are found silicified stumps, with their roots spreading out over twenty feet in diameter, penetrating into the boulder material beneath, and evidently *in situ*. This is undoubtedly an old forest ground surface.

3. Resting directly in this ground surface and therefore inclosing the erect stumps, is a layer of stratified sandstone, two or three feet thick, filled with beautiful impressions of leaves of several kinds of forest trees, about whose silicified bases they are found. This layer is not continuous, like the ground surface on which it rests.

4. Above this stratified leaf bearing layer rests a coarse conglomerate similar to that beneath at the water level. Scattered about in the lower part of the upper conglomerate and in the stratified sandstone, and sometimes lying in the dirt beneath it, are fragments of trunks and branches of oaks and conifers, in a silicified or lignitized condition. They are evidently silicified driftwood.

5. Above this conglomerate, and resting upon it, rise the layers of lava, mostly columnar basalt, one above another, to the height of more than 3000 feet.

The history of these formations Professor Le Conte reads as follows:

1. The region of the Columbia river was a forest, probably a valley overgrown by conifers and oaks. The soil of this forest was a coarse blunder drift produced by erosion from older rocks.

2. By excess of water, either by floods or changes of level, the trees were killed, and their leaves shed and buried in the mud, and their trunks rotted to stumps.

3. Tumultuous and rapid deposit of coarse drift containing driftwood covered up the forest ground and the still remaining stumps, one hundred, perhaps several hundred, feet in thickness.

4. The surface thus formed was eroded into hills and dales.

5. Then followed the outburst of lava in successive flows, perhaps for a long period of time, and the silicification of the wood and the cementation of the drift by the percolation of hot alkaline waters containing silica, as happens so commonly in sub-lava drifts.

6. Finally followed the process of erosion by which the present stream channels, whether main or tributary, have been cut to their enormous depth.

The outflow of lava which forms

the bulk of the mountain was probably the grandest and most extraordinary lava flow that ever took place. It covered an area of 200,000 square miles to an average depth of something like 2000 feet. Its greatest depth was not less than 3,700 feet.

### Fables.

A Chicago lady once Applied to a Learned Judge for a Divorce. "What is the name of the Husband?" inquired the Learned Judge. "I have no husband yet, but inasmuch as I contemplate matrimony, I felt that I should be prepared for the Worst."

An editor once Owned three hundred thousand dollars worth of railroad stock, twenty One-Thousand-Dollar government bonds, six white Shirts, a country residence on the Hudson, a farm in Illinois, a span of Horses and a Wagon, two suits of Clothes and a Plug Hat. This fable Teaches that all Liars are Not Dead Yet.

A Dog and a Tail fell into a dispute as to which should Wag the Other. An itinerant Wasp passing that Way, casually Remarkd: "Speaking of Tails reminds me that I Possess one which may possibly be Influential enough to Wag you Both." This fable Teaches us that Ten cents worth of Dynamite is a bigger man than a Church Steeple.

A Person passing a Barn yard was observed by a Male to be in Distress. "Tell me," said the Mule "what is the Cause of your Sorrow, that I may Sympathize with you." "Alas," said the man, "I am Dead Broke and I know not how to Mend my Fortunes." "If you will just Step inside of this Yard," remarked the Mule, in a Kindly tone. "I will Try to make a Raise for You." The Man Did so; and the Fact that his Hat was found in an Adjoining State the next Day, warrants the Belief that the Mule fulfilled his Pledge.

A Sympathetic Pawnbroker once Called upon an Afflicted Clothing Merchant to Condole with him upon the Loss of his Wife. "Moses," quoth he, "you were so Wild with Grief when I saw you Sitting by the Coffin yesterday that I could not bear the Sight, but Crept away Weeping." "Were you not by the Grave?" inquired Moses, removing the Handkerchief from his eyes. "No," replied Abraham, "I was Not by the Grave—I was too much Broken up with Seeing you by the Coffin." "Oh," exclaimed Moses, "you should have Been by the grave—I just raised h—l by the grave!" This fable teaches that the Depth of Human Sorrow is Boundless.—Denver Tribune.

### A Hint From Japan.

A notable instance of the Japanese understanding of the conditions under which they exist, occurs in the manner of giving security to pagodas. Pagodas are of great height, yet many have existed for 700 years, and have withstood successfully the many vibrations of the ground, which must have inevitably achieved their overthrow had they been erected of stone or brick. When I first ascended a pagoda I was struck with the amount of timber employed in its construction; and I could not help feeling that the material here wasted was even absurdly excessive. But what offended my feelings most was the presence of an enormous log of wood in the centre of the structure, which ascended from its base to its apex. At the top this mass of timber was nearly two feet in diameter, and lower down a log

equally large was bolted to each of the four sides of this central mass. I was so surprised with this waste of timber that I called the attention of my good friend Sakata to the matter, and especially denounced the use of the center block. To my astonishment he told me that the structure must be strong to support the vast central mass. In my ignorance I replied that the center part was not supported by the sides, but upon reaching the top I found this monstrous central mass suspended, like the clapper of a bell; and when I had descended I could, by lying on the ground, see that there was an inch of space intervening between it and the earth which formed the floor of the pagoda. The pagoda is to a Buddhist temple what a spire is to a Christian church; and by its clever construction it is enabled to retain its verticle position even during the continuance of earthquake shocks, for by the swaying of this vast pendulum the center of gravity is kept within the base. I now understand the reason for that lavish use of timber which I had so rashly pronounced to be useless; and I see that there is a method in Japanese construction which is worthy of high appreciation. In the absence of any other instance, the employment of this scientific method of keeping the pagoda upright shows how carefully the Japanese have thought out the requirements to be met.—Dresser's "Japan."



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An international fishery exhibit is to be held in London next May. It will be opened by the Prince of Wales. The United States will be an exhibitor. England, it is said, intends to surpass this country in the display. She will find that a difficult task, however, for Commissioner Baird is getting ready for the exhibition, and will have a department in the pavilion which will make visitors open their eyes. America carried off the first honors at the Berlin fish exhibition, and will strive to do the same in London. If she fails it will be a magnificent display which will bear her.

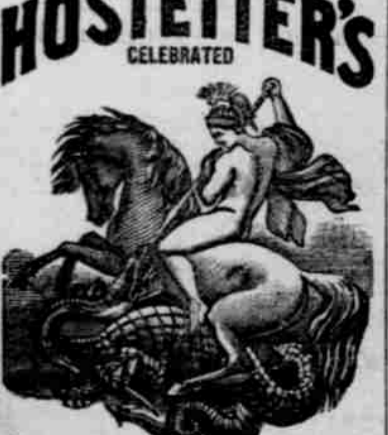
### SYMPTOMS OF WORMS.

The countenance is pale and leaden-colored, with occasional flushes of a circumscribed spot on one or both cheeks; the eyes become dull; the pupils dilate; an acute semicircle runs along the lower eye-lid; the nose is irritated, swollen, and sometimes bleeds; a swelling of the upper lip; occasional headache, with humming or throbbing of the ears; an unusual secretion of saliva; slinky or furred tongue; breath very foul, particularly in the morning; appetite variable, sometimes voracious, with a growing sensation of the stomach; at others, entirely gone; feeble pains in the stomach; occasional nausea and vomiting; violent pains throughout the abdomen; bowels irregular, at times costive; stools slimy, not unfrequently tinged with blood; belly swollen and hard; urine turbid; respiration occasionally difficult and accompanied by hicough; cough sometimes dry and convulsive; uneasy and disturbed sleep, with grinding of the teeth; temper variable, but generally irritable. Whenever the above symptoms are found to exist,

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