

WATERY BOULEVARD

SUCH WILL BE UNCLE SAM'S INTER-OCEANIC CANAL.

Highway for Ships Across Panama Will Be Lighted by Electricity from One End to the Other of Its Forty-three Miles of Length.

The Panama canal, when it is finished—and its ultimate completion is at last an assured fact—will be much like a great street or boulevard, 150 feet wide and brilliantly lighted from one end to the other by electricity at night. This watery avenue will be perfectly straight throughout for more than half of its entire length and will extend over a distance of about forty-three miles, connecting the Atlantic with the Pacific ocean.

Already the canal is two-fifths dug.



DREDGES IN THE CANAL.

To complete it will require fifteen years and an expenditure of \$145,000,000 in money. An army of at least 15,000 laborers will be employed on the job, most of them being fetched for the purpose from Jamaica, under contract. When the ditch is completed, however, it will become a large source of revenue to Uncle Sam, inasmuch as he will charge \$1 for every ton of shipping that goes through from ocean to ocean. It will not be an excessive price, inasmuch as the regular toll for passing the Suez canal is \$2 a ton.

The first idea of the great French engineer, De Lesseps, was to dig a sea level canal across the isthmus, just as a small boy might cut a ditch between two ponds. But it became apparent

later on that such a plan would not be feasible, for two reasons. A mountain chain, which is a continuation of the great Cordillera system, runs along the middle of the isthmus, and to cut through it down to the level of the ocean would be a most laborious and costly task. Also, the Chagres River, which is added to periodic floods, would cause no end of trouble.

Accordingly the canal was carried over the mountain range, through a convenient pass, and arrangements were made for locks, in which, by filling them with water, vessels passing through will be lifted to the necessary elevation. It was a simple matter enough, only eight locks in all being required.

If it be understood that the profile of the great ditch presents in its middle part a high summit, from which it slopes gradually toward the sea on either side, with four locks on each slope, the idea will be perfectly clear.

Now, the canal is already practically finished and navigable for nearly thirteen miles from the Atlantic end and for five and a half miles from the Pacific end. Thus one may start in a boat from Colon, on the east side of the isthmus, and travel comfortably by water for more than a dozen miles. The next fifteen miles are partly dug, with some deep cuts, such as 131 feet at Bohio, 82 feet at San Pablo and 98 feet at Motichin. At the twenty-eighth mile rises the mountain range, which is the most serious obstacle to the undertaking.

Advantage is taken, however, of a convenient pass, as above explained, and much of the remaining difficulty has already been removed by cuts, one of which has taken out a long slice of rock 164 feet in depth. At the thirty-third mile the slope toward the Pacific begins, and for the rest of the way the canal is not very far from completion. It extends out into the Pacific ocean for a little over three miles, because the water was not deep enough near shore and a channel had to be dredged.

Half of the entire length of the canal—fifteen miles on the Atlantic side and seven and a half miles on the Pacific side—will be at sea level. The rest of the trip will be by slopes up which and down which it will be necessary to "boost" and lower ships by the help of the locks. Each lock will be twin—that is to say, a pair of basins of concrete masonry for holding the vessels while the water level is raised or lowered to give them the step required up or down. Thanks to the skill of the engineers, the highest bottom level of the canal will be only 98 feet above the ocean.

For a considerable part of its length the canal runs through the valley of the Chagres River—a stream which, though small in the dry season, is subject to sudden and tremendous freshets. Hence means must be provided to prevent it from causing destruction, and a great dam will be built accordingly at Bohio for storing the flood

waters. This dam will transform the Chagres into a vast lake, the boundaries of which have been accurately established and which will extend thirteen miles to Obispo, where the canal leaves the river, covering an area of more than twenty-one square miles. The capacity of the dam will be something like 200,000,000 cubic yards. Another dam will be built at Alhajuela, on the upper Chagres, nine miles from the canal, of concrete masonry, forming a reservoir with a surface area of ten square miles and a capacity of 130,000,000 cubic yards. It will not only help to store the flood waters of the Chagres in the wet season, but will do some very useful work. Acting as a feeder to the summit level of the canal, it will supply the great ditch with water in the dry season, through the medium of an aqueduct, and will furnish hydraulic power for operating the huge locks. The locks will be worked by electricity obtained from this water power, and by the same means the canal will be illuminated throughout its entire length with electric lights.

In this way the Chagres will be transformed from an element of danger into a useful friend and helper. No trouble is feared from volcanoes, inasmuch as there are none within 200 miles. The harbors at Colon and Panama are excellent, and need no further excavation or protection, though basins will be built at each end of the canal for the convenient ingress and egress of ships. Each of these basins will be 150 yards wide and 1,000 yards long, and will be provided with mooring facilities and wharves connected with the terminal stations of the Panama Railroad. The railroad runs along the side of the big ditch clear across the isthmus, greatly facilitating the work. For much of its length the banks of the canal will be faced with masonry.

The canal when finished will accommodate merchantmen and war vessels of the largest size, and the time of transit from ocean to ocean will be less than a day. The benefits it will bring to the commerce of the world will be, of course, incalculable.

COMRADESHIP IN THE SENATE. Reports that serves the purpose of a Cross-Examination. It may be heretical to say it, but the debates both in the Senate and House

seem to partake of the nature of cross-examination—of effort to trip a speaker or while he is courageously trying to furnish material for the Congressional Record. The taunting remarks may seem rather rude, even insulting, but it serves a good purpose in bringing out, in a face to face contrast, all phases of the question under consideration.

For instance, Senator Allison is speaking, and Senator Tillman raises a point. A colleague of the speaker, say Senator Aldrich, quietly goes over to the South Carolinian's desk, and points out a reference or whispers a supplemental explanation, which may or may not be satisfactory, according to the nod of Tillman's head. Senator Quay sits with his hands folded, quietly watching the proceedings, with his inevitable motion to adjourn. It may be that Senator Penrose, with one hand in his pocket, is trying to push a matter through, and if so, Quay assists him with the whispered explanation.

There is something charming in this spirit of comradeship between Senators interested jointly in a measure. When Senator Frye talks on the shipping bill, Senator Hanna is one of the interested auditors and assists in clearing up points as the speech progresses. It is easy to observe from the faces of the Senators or members whether or not they are connected with the matter under discussion, and the friendly ripple of applause, when the speech is concluded, are bits of human fellowship that make the sting of wounds inflicted in partisan struggle.—Joe Mitchell Chapple in the National.

Abnormal Development. Recently a Paris psychologist announced that he had conclusively proved that malformation of the brain produces intellectual brilliancy. The theory is that deformity, disease or accident causes the abnormal development of some part of the brain, and the result is genius. In support of this several cases are mentioned. It is pointed out that Milton wrote his "Paradise Lost" while he was blind, and it is said that the blindness confined his mind to a certain scope in a manner that made it possible for him to evolve the great epic.

Cases of a somewhat different nature are shown in the elegant writings of Thomas de Quincey and Samuel Taylor Coleridge, both of whom had brains in which the excessive use of opium had made havoc. De Quincey describes his horrible experience with opium taken in the form of laudanum in his "Confessions of an English Opium Eater." Byron's club foot is seriously advanced as the cause of his lyric power, and the point is made that Sir Walter Scott's most brilliant work was dictated from a sick bed. Mozart and Wagner both had deformed brains, said to have been due to disease and bumps while they were children.—Answers.

American Flour in Far East. American flour is increasing in popularity in Manchuria.

When a farmer comes to town on circus day, and the parade doesn't suit him he hitches up and goes home.

How little an unmarried man knows about dressmakers! The lucky dog!

Hamlin's Wizard Oil is a friend of the afflicted and an enemy to pain—which it overcomes.

See Selects Quers Home. Some reels of thread in a factory at Braintree, Dorsetshire, have been chosen as a home by a solitary bee, which is now actively engaged filling them with honey.

It Cures While You Walk. Allen's Foot-Ease makes tight and new shoes feel easy. It is a certain cure for sweating, callosities, corns, blisters, itching feet, etc. Try it today. A trial package, 50c. Trial package, 50c. FREE. Address Allen S. Olmsted, LeRoy, N. Y.

Premotion Proved True. A sensational case of coincidence recently occurred at Newport. Mr. Potter's Arms hotel, had a presentment that he would die on the anniversary of the death of his wife, who felt and fractured her skull a year ago. His friends tried to laugh him out of it, but he was found dead in bed at 5 o'clock a few mornings ago—exactly a year after his wife's fatal accident.

She Might. "I wonder if she regrets her marriage?" "Why should she?" "Well, you know, they're both literary, and now her husband thinks entitled to every bright idea she has."

Failed to Scare Him. His medical adviser—You won't last long at this rate, young man. You are burning the candle at both ends. Gaylord—Very well, doctor. When the candle is burnt out I'll light the gas.

Acting the Part. "Since he married that rich girl I understand Dabney leads a dog's life." "I expected as much."

"Yes; he does nothing but eat, lie around the house and growl."—Philadelphia North American.

Mamma—Why, Willie, you asked for two pieces of candy, and you got them. Aren't you satisfied?

Willie—No'm, I ain't. You gave up so easy I'm just kickin' myself 'cause I didn't ask you for more.

Not Able to Share It. Hewitt—The editor says it will be at least a year before he can publish my poem. That's a long time to wait. Jewett—Yes; you might die, and then the whole disgrace would fall on your family.—New York Herald.

Druidical Ruins in England. Druidical remains, several "plague stones," erected about 1450 A. D., 50 old market crosses and 40 stocks or their remains, are among the ancient monuments now to be found in the west riding of Yorkshire, England.

Mother will And Mrs. Winslow's Soothing Syrup the best remedy to use for their children during the teething period.

Is the name sometimes given to what is generally known as the BAD DIS-EASE. It is not confined to dens of vice or the lower classes. The purest and best people are sometimes infected with this awful malady through handling the clothing, drinking from the same vessels, or coming in contact with persons who have contracted it.

It begins usually with a little blister or sore, then swelling in the body, sores and ulcers appear in the mouth, the throat becomes ulcerated, the hair, eye brows and lashes fall out; the blood becoming more contaminated, copper colored spots and pustular eruptions and sores appear upon different parts of the body, and the poison eventually destroys the bones.

S. S. S. is a specific for this loathsome disease, and cures it even in the worst forms. It is a perfect antidote for the powerful virus that pollutes the blood and penetrates to all parts of the system. Unless you get this poison out of your blood it will ruin you, and bring disgrace and disease upon your children, for it can be transmitted from parent to child. S. S. S. contains no mercury or potash, but is guaranteed a strictly vegetable compound.

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