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ENGINEERS' ASSN. ELECT MEMBERS

W. A. Doble Gives Fine Address on Hydraulic Practice

The Hawaii Engineering Association held a very busy session last evening at the College of Hawaii. Several new members were admitted, after which the meeting was addressed by William A. Doble, M. A. Soc. C. E., who took as his subject, "Hydraulic Practice in the West." The chair was taken by Professor Young.

Following are the names of those admitted to membership last evening: W. H. Hoogs, associate member; H. L. Kerr, J. B. Lightfoot, W. A. Hall, W. L. Heilbron, M. H. Hoge.

William A. Doble is an eminent engineer of San Francisco, and has been in Hawaii for the past two months making a thorough, extensive examination of the hydraulic practice adopted and used here on the islands of Kauai, Oahu, Maui and Hawaii. He has collected much data and many interesting photographs of various irrigation projects here, as well as the exceptionally fine collection he has of California, many of which he exhibited last evening.

Before introducing the speaker of the evening, Chairman Young stated that the finances were in such good shape that the unbound volumes of mining and engineering works the property of the association would be bound. The association has 139 members. Mr. Pratt moved that as no paper had been issued by the association during the past quarter, the dues be refunded for that period. In making this motion, Mr. Pratt stated that many of the members on the other islands were dissatisfied at not having received their paper, although they had paid their dues, and it was for their benefit that he had made the motion. After a brief discussion, the motion was withdrawn.

The speaker of the evening was then introduced by Prof. Young in a few appropriate words. Mr. Doble said: "I am sorry that I did not know earlier that I was to address you, for, had I known, I would have

brought some lantern slides with me from San Francisco."

In speaking of water conservancy, Mr. Doble said: "In our high mountains of California we have large snow fields which give us great advantages. Your run-off is very rapid, but your rains are more frequent; therefore you will have to make adequate storage. Water storage is more favorable here than in California. In California, especially in the arid and semi-arid regions, riparian rights have to be combated, and we are compelled to make large reservoirs above and below our plants. In our early work, flumes and ditches were made, but now modern works call for tunnels. The largest tunnel for irrigation purposes is 22 miles in length, on the Kern River, controlled by the Edison Electric Company. These tunnels are cement lined.

"The Vancouver Power Works has run a tunnel 15,000 feet long through granite, nine feet in diameter. Welded steel pipe is being used and is very much more efficient in carrying capacity at almost the same cost as riveted pipe. The National Tube Company of the United States makes tubes up to 30 inches in diameter. The Great Western Company has four 10,000-kilowatt machines, and use a stationary needle nozzle with a jet projector. The needle nozzle is a regulating nozzle designed to correct the errors in streams. Although the bulb wears, it maintains its original form. The simplest forms of nozzles use jet deflectors.

"At Lytle Creek, Cal., the jets were deflected to the wheels, with the result that the machines worked backwards."

In speaking of streams and evaporation, Mr. Doble stated: "Streams vary during every 24 hours, owing to heavy evaporation in arid regions and the melting of snows."

The speaker then spoke of tangential wheels and draught tubes, and exhibited some magnificent photographs illustrating his subject. "Draught tubes on tangential wheels produce a vacuum for the wheel to rotate in, thereby reducing windage," Mr. Doble told how pipe lines burst at certain distances from the plant, and how governors are built directly on top of nozzles; and how to guard against surging in pipe lines by using relief valves.

The speaker said: "There is no such thing as water-ram, but a surge, which goes up and down the pipe line and meets at a mean of the length of the pipe line and causes a rupture. The largest tan-

HAWAII PRODUCTS; MANY PASSENGERS

These For San Francisco By Steamer Lurline

The Matson Navigation steamer Lurline is to sail from Honolulu for San Francisco on Tuesday evening at 6 o'clock with her cabin passenger accommodation comfortably filled, and down in the hold will be stowed a large consignment of products of Hawaii.

The Lurline left last evening for Kahului, and while at the Maui port will discharge about eight hundred tons of cargo. The vessel is expected to return to Honolulu on Sunday evening.

Before casting her lines off for San Francisco, the Lurline will load fifteen hundred tons of refined sugar, about five thousand tons of raw sugar, 9000 cases of canned pineapples, 2000 bunches bananas, and a small quantity of sundries.

The vessel may take on a limited shipment of rice.

The Lurline will leave here not crowded, but with each stateroom occupied.

The Matson steamer Hiltonian, now at Port Allen, will proceed to Kahului and there take on a full shipment of sugar destined for San Francisco.

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Francisco. According to advices received at the office of Castle & Cooke, there will be six or eight passengers to embark at the Maui port for the Coast. The Hiltonian will not return to Honolulu, but is scheduled to sail from Kahului direct to the Golden Gate port on April 14.

WHO SAVED THE SCHOONER TURNER?

(Continued from Page 1) to a place of safety behind the Kahului breakwater.

The assignment of rates brought from South America is now going out of the vessel. It is expected that the Turner will be ready for her trip to Honolulu within a week or ten days.

The vessel has lost her shoe and also her rudder, and it is understood that other damage has been done her bottom through contact with the reef.

REAL ESTATE TRANSACTIONS.

Entered for Record April 7, 1910.

From 10:30 a. m. to 4:30 p. m.

Waikanae and hsb to Mrs Keolu Kellinui

Oahu College by trs to Minnie E Chipman

Minnie E Chipman to Trs of Oahu College

Loi Koon Chan and wf to Mary N Simerson

Samuel Parker by atty to T J Fitzpatrick

J H Schnack and wf to William K Simerson

Stephen Mahaulu and wf to William K Simerson

Kekakuhala Mahaulu and hsb to William K Simerson

J Alfred Magoon to J S Bailey

Frank S Dodge and wf to Bishop Trust Co Ltd

Laniana A Mackenzie and hsb to Bishop Trust Co Ltd

Entered for Record April 8, 1910.

From 8:30 a. m. to 10:30 a. m.

H M Lawson et al to Lawrence J Ekberg

Harriette L Brock and hsb to C Lawrence Brock

C Lawrence Brock to Eugene L Brock

Eugene L Brock to Mary M Brock

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It makes 2 Lbs. of Butter out of 1 Lb. of Butter

Take 1 Lb. of Butter and 1 Pt. Milk, put into the Merger, and in Two Minutes you will have 2 Pounds of Butter!

Call at the Fish Market on Saturday

From 9.30 to 10.30 A. M., and from 2 to 3 P. M.

And see it make a Pure Butter at 5c per pound

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No Home Should Be Without It