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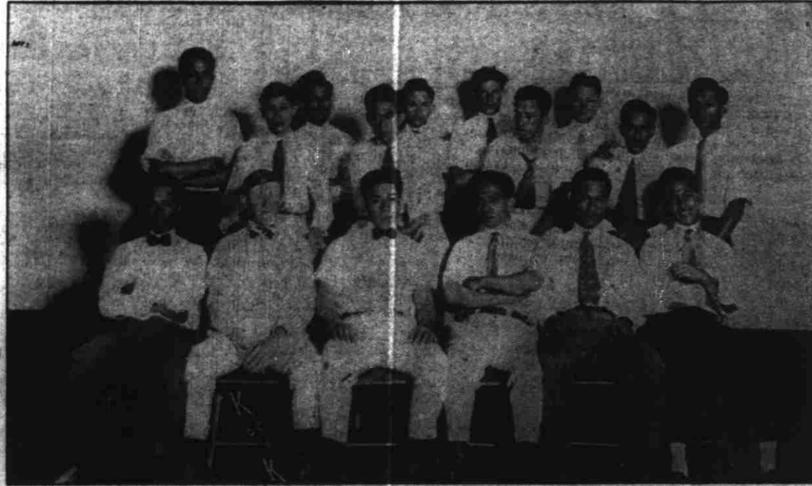
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## Knights of Kamehameha Name Officers



From left to right: Sitting—Wm. Sing Fook, J. Brooks Brown, leader of club; Sam Kahalewai, former president; Chas. Spencer, Peter Kawekiu, Robert Heen. Standing—Wm. Kalamo, Kang Wan, Ben Hosea, David Keliipuleole, president-elect; Louis Aiu, Wm. Mosaman, Palmer McCabe, Charles Akana, A. B. M. Richardson, Ali Toy Apans.

David Keliipuleole was elected president of the Knights of Kamehameha, one of the clubs in the intermediate department of the Y. M. C. A., at a meeting of the members of the organization at the association building last night. Other officers chosen were Charles Spencer, vice-president; David Bent, secretary; Arnold Richard-

son, treasurer, and Ben Hosea, sergeant-at-arms. President Keliipuleole appointed the following captains of sports: Swimming, Sam Kahalewai; basket-ball, David Bent; bowling, Louis Silva; indoor baseball, Charles Akana; track, Peter Kawekiu; volley ball, Arnold Richardson.

The Knights of Kamehameha of the intermediate department of the Y. M. C. A. have one of the leading musical organizations of the city, and the growth of the club has been remarkable. The club was started with three members, and at the present time the enrollment is 23.

## WATER TUNNELS MAY RUIN TREES OF OAHU'S MOUNTAIN FORESTS

### Governor Submits Opinions of Experts to Appointees on Loan Fund Commission

Several letters which pertain directly to the water supply of Oahu, as viewed by government men who have made a study of the water situation were enclosed with the letter sent by Governor Pinkham to the members of the loan fund commission. One of the letters, which is from C. S. Judd, superintendent of forestry, reads as follows:

"In response to your verbal request of September 9 that I submit my ideas on the probable effect on our native forests of the draining or underground waters, I beg to submit the following: "As a general proposition, the depth of the water table (or the surface of the saturated zone or of the ground water) below the surface of the ground varies in a striking manner from place to place in a given region because of topographic, soil and other variations, the natural motion of a viscous substance, but is not generally in the nature of an underground stream, as is ordinarily supposed. The level of the ground water is invariably lower in a forested tract, for the forest consumes water in exceptional quantities from the soil.

"A slow concentration of plant food goes on in the surface soil and is therefore in the surface soil that the feeding roots of plants are chiefly disposed. But it is in the sub-soil that the deeper lying roots of trees are mainly located for supplies of water. "It is noteworthy that the root systems of trees are very responsive to the ground water. Serious disturbance in the life of the tree is occasioned by sudden and unusually large changes in the level of the ground water, and when there is a too thorough underdrainage it may permanently depress the water table and move it out of reach of the deep-lying roots adapted to a certain normal position.

"My authority for these general principles of the relation of the roots of forest trees to ground water is Professor Isidore Bowman, the author of 'Forest Physiography.' "As a matter of principle, the thorough drainage of the soil or profound lowering of the water in our mountains would, in my mind, very likely lessen the amount of water available for the root systems of forest trees in the region where it is essential.

"Whether the continued and moderate tapping of underground waters by artesian wells in the region of Honolulu would affect the native forests back on the mountains by the lowering of the water table is doubtful. So far there has apparently been no deleterious result, and I am inclined to believe that the wells are so remotely located from the forests as not appreciably to affect the water table on the mountains in its relation to the roots of forest trees.

"On the other hand it is problematical whether the tunneling into the mountains for water would not cause such thorough underdrainage as to lower the water table to such an extent that there would be a result detrimental to the root systems of our forest trees.

"As I understand the situation in the region of the Waiahole tunnel, the water is found in pockets of the porous rock between dykes of hard impervious rock. The area of these water bearing sections on the surface cannot be very extensive. For this reason it would appear to me that should the effect of thorough and rapid drainage by this tunnel be felt at or near the surface of the ground the resulting influence on the roots of forest trees would generally be local. "During inspection of the forest in the region of the Waiahole tunnel, no effect of the drainage of underground water on the health of the forest trees

was observed, but it is my plan to keep the forest in this region under the regular observation to watch for any possible effect."

An enclosed letter from G. K. Larsson, superintendent of hydrography, follows:

"The total water obtained from underground sources on the island of Oahu is probably from 400 to 500 million gallons per day with an average of about 450,000,000 gallons per day. Of these amounts about 100,000,000 gallons per day is furnished by springs above sea level, leaving from 300 to 400 million gallons per day, with an average of about 350,000,000 million gallons per day furnished by flowing and pumped wells.

"T. F. Sedgwick is of the opinion that the maximum capacity of all pumped and flowing wells may reach about 500,000,000 gallons per day.

"The mean annual rainfall over all forest reserves on Oahu will probably fall between 100 and 120 inches per annum. A study of the rainfall of the area between the 500-foot level and the Koolau ridge, and between the ridge from Moanaloa Park and Palolo hill gives the mean annual rainfall as being 90 and 100 inches per annum. This included an area below that of the forest reserve. The total area considered is 18.4 square miles. With a mean annual rainfall of 90 inches a total of 80,000,000 gallons per day will be precipitated. With a mean annual rainfall of 100 inches, a total of 89,000,000 gallons per day will be precipitated.

"From two to five years of observation of stream run-off in this Honolulu basin shows a mean daily stream run-off of about 30,000,000. About 25,000,000 gallons per day are delivered by pumps and flowing wells. This leaves from 15,000,000 to 24,000,000 gallons per day to supply evaporation, plant transpiration, and springs below or near sea level. These data, considered in connection with the fact that the heads or heights to which the artesian wells rise are gradually falling, and have lowered about 15 feet in less than 30 years, are convincing evidence that our underground water is now being drawn off more rapidly than it is being replenished, and that further development along this line is a very dangerous practice."

### MEMO'S OF MEETING OF CITY SUPERVISORS

In the absence of Mayor Lane, Supervisor Daniel Logan last night presided over the meeting. The next meeting is called for Monday, October 11.

Superintendent of Public Works Charles R. Forbes has asked permission to repair the road around Diamond Head. The request was granted readily by the supervisors.

By a vote of the board 15 more rooming housekeepers will be refunded \$48 each on fees already paid into the treasury. The list was sent in from the office of the treasurer.

Supervisor Hollinger's resolution providing for a superintendent of Honolulu's parks, excepting Kapoli park, was returned to him last night for correction, after the other supervisors had found several flaws in the resolution as drafted.

The committee of public expenditures recommended that the following city officers should be bonded as follows: Superintendent of Kapoli Park, \$2500; manager of the Public Baths, \$1000, and building inspector's clerk, \$1000. The report was adopted.

In a communication read last night, R. W. Aylett, superintendent of garbage, asks what he shall do with the 25 new street refuse cans recently purchased and painted with letters and numbers. The health committee

## CITY HAS FAT CASH BALANCE LEFT IN BANK

### September Expenditures Were \$49,875 and Receipts Came to Total of \$19,929

Deputy Treasurer D. M. Woodard last night submitted to the board of supervisors a report showing the financial status of the city and county. The report shows receipts during the month of September amounting to \$19,929.25, and disbursements of \$49,875.94, with a cash balance of \$173,816 on October 1.

Receipts were divided as follows: From the general fund, \$11,192.21, including garbage, \$744.60; excavator, \$66.75; building permits, \$273.50; license collections, \$3,691.21; plumbing permits, \$202; clerk's office, \$5; first circuit court, \$1102.45; Honolulu district court, \$1205.25; Ewa district court, \$308.45; Waialua district court, \$19; Waialua district court, \$118.35; Honolulu road department, \$12.36; Honolulu Jail, \$68; Honolulu police department, \$1261.20; Kapoli park, \$506.65; Koolau park, \$4.25, and taxes from the territory, \$1502.44.

From the road tax fund a total of \$2052.32 was received, as follows: Honolulu district, \$1577.39; Ewa and Waialua, \$153.11; Waialua, \$74.50; Koolau, \$87.37; Koolau park, \$88.85; Waialua, \$56.10. Water Works Fund receipts totalled \$6408.02, sewer works brought in \$231.60, and fees from hunting licenses were \$45.

Disbursements in the general fund amounted to \$8902.04 in redeemed warrants. In the permanent improvement fund the various disbursements were as follows: Extension and completion of Kaula street, \$1908.51; construction of Waimea-Waialea coral road, \$4796.14; additions to police system, \$642; reconstruction Waimea bridge, \$1410.26; sidewalks and curbing, \$2355.52; resetting curbs and catch basins, Punchbowl street, \$25.

Road tax fund disbursements were divided with \$22.30 in Honolulu, \$437.53 in Waialua, and \$1534.65 in Ewa and Waialua.

Disbursements in the water works fund were \$14,885.94, and in the school fund, \$12,953.04. The water works disbursements were classified as follows: Material and supplies, \$394.59; maintenance and upkeep, \$11,685.64; purchase and installation Risdon pump and repair Kaimuki pump, \$2845.62; additions to the water system, \$140.19; fees and rates refunded, \$22.90.

It is announced that the public library at Bucksfield, Me., and Hebron Academy at Hebron, Me., are beneficiaries under the will of former Governor John D. Long.

will inform Mr. Aylett on the subject.

Sheriff Rose has advised working the traffic officers on three shifts of two hours and 40 minutes each instead of straight shifts as now employed. The plan will be tested out for a time by the city fathers.

By vote of the supervisors, bids for the Hauula school were rejected, and the building inspector will be instructed to do the work with city and county labor. The building inspector was authorized to accept as satisfactory the work on the Royal and Moanalua schools.

Supervisor Larsen introduced a motion last night proposing that the opening of bids on the new tangential water wheel be postponed 10 days, on the grounds that the bids as now called for are invalid. Representatives of the Hawaiian Electric Company, which corporation first brought the subject of the invalidity of the bids to the attention of the city officials, were out in force at the meeting. The resolution passed without argument.

## SUPERVISORS IN NO RUSH TO MAKE JOB FOR VIERRA

### Hollinger's Resolution Creating Place for New Park Superintendent Gets Hard Usage

Kicked and cuffed in turn by various members of the supervising board last night, patched up and sliced down, a resolution introduced by Benjamin F. Hollinger, pertaining to the management and supervision of certain parks in the city, finally ended up by being referred back to its sponsor for revision.

Mr. Hollinger's resolution was as follows:

"Whereas, certain public parks and playgrounds were in an unsatisfactory condition and required proper management and supervision, the mayor, with the approval of the supervisors, should be authorized to appoint a suitable person as superintendent of parks and playgrounds, who shall superintend and look after the care and upkeep of all public parks (excepting Kapoli park and the public baths) and playgrounds including school grounds, under control of the city, and who shall be directly answerable to the committee on parks, playgrounds and schools."

Hardly had the voice of the clerk died down from the reading of the resolution, when Supervisor Arnold rose to move that the part which stated that "certain parks and playgrounds were in an unsatisfactory condition" be stricken from the body of the measure.

"Arnold thought it a slur," "I consider this," said Mr. Arnold in reply to a smiling query of Mr. Hollinger, "I consider this a direct slur at the road committee, and I move that it be taken out."

Mr. Hollinger rose and stated that he was perfectly willing that this much of the resolution should be eliminated. Then Mr. Larsen put in his little mite.

"I notice here that Kapoli park is excepted from the list of parks. I'd like to ask just what Mr. Hollinger's idea was in making that sort of an arrangement," said Larsen.

"Well, it doesn't make much difference," said Hollinger, as he explained the situation. "Kapoli park is separate from the others, and we thought we'd like to try this plan for a month or so to see how it would work, after which we can put in Kapoli."

Hollinger's explanation did not appeal to the rest of the members of the board, however, and the upshot of the whole matter was the return of the bill to Hollinger, that it might be fixed up in a businesslike way.

Hollinger's haste in the matter came from the fact, as he stated in his plea, that he wished to get the superintendent of the new job appointed. Temporary arrangements have been existing between Hollinger and A. K. Vierra for some weeks in the matter. Vierra having left his job as road patcher for the new position. Vierra's name was not down on the blank appointment last night, however, Mayor Lane having failed to show up at the meeting, and, as explained by Mr. Arnold, the wish of Mr. Hollinger for speed in the adoption of the resolution was unnecessary.

## BOARD VOTES TO HAVE OVERSEER CLARK LET OUT

Charles Clark, recently road overseer, at present a road luna, and a prominent figure in former joy rides, was again brought into the limelight last night when Supervisor Larsen, rising to move that the employee be dismissed from the service of the city never to return, stated that Clark had been a "detraction to the board, a disgrace to the Republican party, and a complete failure as far as his work as a road overseer has gone."

To prove his point Larsen called the attention of the board to two sections of road, lasting monuments to Mr. Clark's inefficiency. The two high ways were Kalakaua avenue and Waialea road, both of which Larsen declared to be a disgrace to the city. Mr. Hollinger seconded the motion made by Mr. Larsen, that Clark be dismissed.

Supervisor Shingle then rose, not to defend Clark, he said, but to propose that the matter be placed in other hands than those of the supervisors. "It is the principle of the thing," said Mr. Shingle, "which I am opposed to. I do not believe that it is the business of the board to dismiss a subordinate. That is the business of the head of the department."

"We could dismiss the engineer," said Mr. Shingle, "but I doubt much if it is our business to dismiss one of the men under him." Mr. Shingle accordingly proposed that the matter be referred to City Engineer Whitehouse.

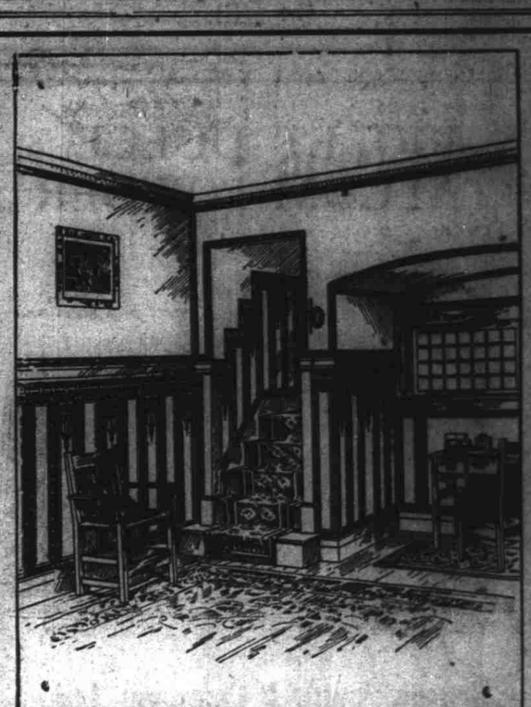
"I see your point," said Larsen, following the speech by Shingle, "but I insist that the man be removed. It is an injustice to taxpayers to keep such men as Clark on the city's payroll." The motion as amended was carried.

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