

# REPORT

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THE year 1909 has been one of progress in this Museum, but still more one of preparation. After some years of great inconvenience and repression from want of workrooms and of safe storerooms, towards the end of the year arrangements were made to build a Laboratory commensurate with the needs of such a museum as this has become in the twenty years of its existence, and probably before the end of another year this long desired building will be ready for use.

For more than a year the Museum staff has been insufficient for the work to be done, and our laboratory space precluded the employment of additional specialists, but the spirit of loyalty to the best interests of the Museum has animated our little company to efforts that seemed almost impossible in our limited and inconvenient quarters. We have been scattered; one department working in Manoa Valley, another in Nuuanu Valley, while a third has operated in the midst of the fish market region. Such segregation has somewhat lessened the resulting accomplishments, and the prospect of a new portion of the building where all departments have their own quarters within reach of the collections and the working library is a most agreeable one.

It has not seemed well to recommend the appointment of a marine zoologist for the staff because we had no suitable place for the preparation and study of specimens of the wonderful marine life to be found on our reefs at all seasons of the year. Not a day of the three hundred and sixty-five when fear of malaria haunts the shore or a low temperature checks the life current of the coral polyp or any other of the (often undescribed) inhabitants of the clear waters that surround these islands. In no marine zoological



station already established are there such ideal conditions for study, and should it be announced that we desired a marine zoologist many would be the applicants for such a chance for original investigation. To those who rate highly the discovery of new species our reefs offer a rich field, for in the collections made in three days by the members of the present staff on this island and on Molokai, none of them specialists in marine zoology, Dr. Vaughn, of the United States National Museum, found a dozen new species, some of great interest. Surely this mine is not yet worked out; it is easily accessible and vastly attractive. But to those who desire to know more of the structure and life history of the reef-dwellers a more convenient place for study can hardly be desired than here found on our reefs.

In the deed which established the Bernice P. Bishop Museum as an independent institution, definite reference was made by the founder to the possible establishment, under the auspices of this museum, of a Marine Aquarium for the study of life on our reefs and the public exhibition of their most interesting inhabitants in a living condition. While the funds are not at hand for such an establishment as should be on this island, much can be done with the conveniences of the new laboratory to collect and study the smaller "Harvest of the Sea," and it is hoped that another year may see the department of Marine Zoology inaugurated.

It would be pleasant to anticipate some of the many advantages to accrue from the possession of suitable work- and store-rooms, but it is perhaps wiser to wait until we move into and try our new domain, and are able to install the apparatus brought from Berlin fourteen years ago. After such an interval we can surely wait another twelvemonth.

From the things that may be in the future we turn to some of those in hand, and it is pleasant to call attention to the gift by the Hon. Wm. R. Castle of perhaps the most valuable single collection we have received by gift. I had been in correspondence with one of the Australian pioneers, Mr. J. F. Connelly, a surveyor who



had explored extensively in western Australia for many years. He had collected from the natives among whom his profession led him, a fine series of implements of peace and weapons of war, which he wished to dispose of. We had no funds and it seemed impossible to save these treasures, when Mr. Castle came to our aid and purchased for us the collection which is now in our cases and has more than doubled our former collection of Australian specimens. The list given by Mr. Stokes shows the extent, but it would take much more space to tell its great value. With more of such friends it would be quite possible to make this Museum a great one, greater than any expensive exploring expeditions could achieve so far as specimens go, for no longer are these things to be had among the peoples who made and used them. Only in a few private collections made years ago exist the desiderata for our shelves. I am following many of these with anxious eye, but have not the funds needed to acquire them, and they will probably go to the rich museums of Europe that have a Government treasury behind them.

The accessions to the Library continue both as the result of exchange of publications and the purchase of books. In all cases the purchases are limited to the most pressing demands of a "working library" in a region so remote from scientific libraries. It will not be long before our library, now quartered in the upper gallery of Hawaiian Hall will require additional accommodation, all the cases made for books being now full to their utmost capacity. Neither will it be long before the opening of this upper gallery to the public must be considered, for the cases in the first gallery are nearly full. Closely connected with our library is the Museum Press soon to move into new and spacious rooms. The publications during 1909 were the Index to Fornander's Polynesians, by Mr. Stokes, issued as a special volume in small edition and not on our exchange list; this is considered a good example of indexing, and has proved of great use to many who



have used it. This was followed by the Annual Report, and the year closed with the publication of the fourth and last part of Volume II of the Memoirs, a brief history of the volcanoes Kilauea and Mauna Loa on Hawaii. Of course there has been the usual large amount of label work and the miscellaneous printing the Museum requires. It has been a great hindrance having the presswork done in town, and it will be a matter for early consideration whether we should not make better work in the new printery on a hand press; if the work is to still be done in town a much larger font of type should be provided, as forms are locked up and delayed in town beyond reasonable measure. Lest this should seem a reversion to ancient methods, let us remember that the finest work has always been done on the old hand press, and this is universally used for the proofs of the half tone engravings which form so large a part of modern illustration. The printing of a volume on Kapa-making has already been arranged, and it is thought that this will be ready during 1910 as Volume III of the Memoirs. The illustrations have many of them been made in Vienna in color and are faithful reproductions of the beautiful kapa still existing in this Museum and in the Director's private collection, which includes most of those Cook brought home. Unfortunately under the tariff these plates which will cost nearly five dollars a set, are subject to a duty of 25%, although they could not be made of such quality in America at present.

*Department of Ethnology.*

In the Department of Polynesian Ethnology Mr. J. F. G. Stokes, the Curator, has continued his studies of the curious Hawaiian fish-traps and conservation ponds and his results appear later in this series. Mr. Stokes has also spent some time on Molokai surveying the remains of the ancient *heiau* or temples, and while thus engaged found time to make collections of great value, among them a collection of plants and the curious and little known *Kalaina wawae*, specimens of which, given by Mr. George



P. Cooke, are now in the Museum and will be described later. Some other gifts have been received and are acknowledged in the list of accessions given below.

*Department of Pulmonata.*

Dr. C. M. Cooke, the Curator of Pulmonata, has made very extensive collections in his department and has spent much time on the Ancey collection. He reports: "Number of specimens collected or sent to the Museum for identification, 27,333. Catalogue numbers, 1347. The Thwing collection, numbering nearly 40,000, was purchased by the Trustees. It is hoped that the cataloguing of this magnificent collection will be finished during 1910.

"Specimens have been received from Messrs. I. Spalding, C. N. Forbes, A. F. Knudsen, H. Podmore, W. H. Rice Jr., Judge C. S. Dole, A. F. Judd, C. H. Cook, E. Deverill, F. W. Terry and Dr. H. E. Crampton."

*Department of Botany.*

Mr. Charles N. Forbes has continued his good work in this Department of which he has now been appointed Curator, and this may be partly seen in his report. He also has an account of a new Hawaiian plant. His report is as follows:—"An excursion for the purpose of collecting and studying the vegetation of Kauai was made during the months of July, August and September. Four bases were established as follows: Hanalei, from which the region Kalalau and the power line trail was gone over; Lihue, from which the surrounding region was slightly covered; the McBryde mountain house and Mr. Gay's mountain house. Side trips were taken up Hanapepe and Olokele valleys. In covering so large a region in so short a time hardly more than a superficial survey could be made of any one place. About 500 different varieties were collected, and a good preliminary knowledge of the vegetation of the island was acquired. A large part of the success of the trip was due to the friendly interest shown by many of the people of Kauai, and especial thanks are due to Rev. J. M. Lydgate,



Judge C. S. Dole, Mr. Francis Gay and Mr. E. G. K. Deverill. The exploration of Oahu has been continued, essentially the same regions being covered as given in the last report.

“Most of the loose and unmounted material has been classified and incorporated into the Herbarium. Much trouble has been occasioned by small mites; and besides the preliminary fumigation which every specimen receives before being placed in the cases, the whole herbarium has been fumigated three times, twice with carbon disulphide and once with hydrocyanic acid gas, the latter method only proving effective. As the two rooms where the Herbarium is stored are small and tight, this method can be followed easily and with little danger.

“The Herbarium contains specimens of nearly every species so far reported from these islands, but contains no series illustrating the variations which are so striking on this group, and which are of the greatest importance to the modern botanist. Many of our specimens lack the exact localities from which they were taken, which are now recognized as of the utmost importance. For these reasons it would be advisable to increase our collections as rapidly as possible. The Herbarium consists of:—

The Mann & Brigham Herbarium 1864-5 (all groups)	909	
The General Herbarium:—		
Higher Plants.		
Hawaiian:		
Edw. Bailey Collection.....	267	
A. A. Heller Collection.....	317	
Other sources.....	287	1780
Duplicates and unmounted material.....	5000	5000
Exotics:		
New Zealand .....	183	
Australia .....	300	
Other Pacific Islands.....	349	
Miscellaneous .....	380	1304
Thallophytes (not yet arranged):		
Hawaiian.....	1991	
Exotic .....	480	2471
Making a total of.....		10,555



“The Director started an exchange with the Australian Botanic Garden in Sydney last year, and we have already exchanged 300 specimens. It is hoped that visits may be made to the other islands of this group, if for no other purpose than to keep up this valuable exchange. It would also be of advantage to extend these exchanges.

“Accessions during the year.—The following gentlemen have added specimens to the Museum: Dr. W. T. Brigham, 30 specimens, Maui; Dr. C. M. Cooke, 1 specimen, Oahu; Albert F. Judd Esq., 3 specimens, Hawaii; Rev. J. M. Lydgate, 78 specimens, Kauai; Mr. J. F. G. Stokes, 126 specimens, Molokai; Mr. C. B. Thompson, 5 specimens, Oahu; Mr. J. W. Thompson, 2 specimens, Oahu, 1 specimen, Molokai; Dr. E. V. Wilcox, 2 specimens, Oahu.”

Mr. J. W. Thompson has continued his good work in making casts of the fish found in the Honolulu waters, and we have now over three hundred accurately colored casts. As may be supposed, the new fish are less and less frequent, and it will soon be necessary for our artist to visit the other islands of the group to obtain those specimens of the Hawaiian fish fauna that are peculiar to each of the islands.

The attendance of visitors during the year is shown in the table; there is a total attendance of visitors exceeding that of 1908 by 1940. When we examine the table by nationalities we find an increase of white visitors of 251, and of Japanese of 2133, the latter due to the presence of a training ship of that nation, when it seemed that nearly all both officers and men came to the Museum; of Hawaiians 246 less than the previous year.\* The Trustees found it necessary to forbid the admission of children under five years of age, as women brought many babes in the arms and children too young to go alone, and spent the day, until the

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\*The small attendance during February was due to closing the Museum on account of oiling the roads in the yard; only those with permits from the office were admitted.



nursery noises and operations became a great nuisance, and the enforcement of the rule has been a great relief to visitors as well as to the staff; probably several hundred babies have been excluded, although cases have occurred where oriental mothers have claimed that unweaned babes were over five years old.

TABLE OF ATTENDANCE.

1909.	Whites.	Hawaiians.	Portuguese.	Chinese.	Japanese.	Others.	Open on		Visitors on closed days.	Average Attendance.		Total Visitors.
							Public days.	Other days.		Public days.	Other days.	
January .. ...	473	132	34	311	198	5	11	2	7	104	4	1153
February .....	137	2						6	139		23	139
March .....	356	65	13	9	18	8	4	12	223	62	19	469
April .....	453	247	56	164	529	26	9	8	372	123	46	1475
May .....	666	150	76	104	490	6	10	4	81	141	20	1492
June .....	292	93	33	74	1297	7	8	3	40	220	13	1796
July .....	525	65	16	53	662	19	10	6	68	127	11	1340
August .....	449	69	62	138	111	42	8	4	39	104	10	871
September ....	317	84	25	106	92	38	9	4	28	70	7	662
October .....	387	124	83	178	164	6	10	5	47	89	9	942
November .....	344	99	22	61	385	7	8	3	23	112	8	918
December .....	324	88	20	89	54	14	8	1	5	73	5	589
Totals .....	4723	1218	440	1287	4000	178	95	58	1072	113.4	18.5	11,846





# List of Accessions.

## ETHNOLOGICAL.

### *Gifts.*

The Connelly collection of Australian material, presented to the Museum by the Hon. W. R. Castle of Honolulu. Made by Mr. John F. Connelly of Melbourne, Australia:—

- 9721-9755 Boomerangs, from all the states.
- 9756-9760 Coolardie or whirlers. Western Australia.
- 9761 Yinmarrie, ceremonial stick. Western Australia.
- 9762 Churinga, ceremonial stick. Western Australia.
- 9763 Dowak-mero, ceremonial stick. Western Australia.
- 9764 Mero, spear-thrower. Western Australia.
- 9765 Yinmarrie. Western Australia.
- 9766 Dowak-mero. Western Australia.
- 9767-9776 Mero. Western Australia.
- 9777 Stone club. New Guinea.
- 9778-9789 Clubs, Coondie and Nulla. Western Australia and New South Wales.
- 9790 Gin's club or yam stick, Wannah. Queensland.
- 9791-9792 Tomahawks. Western Australia.
- 9793-9794 Shields, Woondah. Western Australia.
- 9795 Shields, Helimon. New South Wales.
- 9796-9798 Wooden bowls, Coolamon. West and South Australia.
- 9799 Walking staff. New Zealand.
- 9800 Bead bracelet. Solomon Ids.
- 9801 War dress. Northern Australia.
- 9802-9813 Dresses and ornaments. Western Australia.
- 9814 Circumcision knife. Western Australia.
- 9815-9816 Stone chisels. Western Australia.
- 9817 Implement (? saw). New South Wales.
- 9818 Surgical implement. New South Wales.
- 9819 Skin dresser or burnisher. New South Wales.
- 9820-9822 Mill stones. New South Wales.



- 9823 Ax or adz head. New Guinea.  
 9824-9825 Mill stones. New South Wales.  
 9826 Adz or chisel. New Zealand.  
 9827-9828 Mill stones. New South Wales.  
 9829 Native cement. Western Australia.  
 9830 Tomahawk. New South Wales.  
 9831 Phallus or pestle. New South Wales.  
 9832 Pounding stone. Victoria.  
 9833-9835 Chisels. New Zealand.  
 9836-9837 Tomahawks. New South Wales.  
 9838-9839 Pounding or husking stones. New South Wales.  
 9840 Native paint, Wilgie. New South Wales.  
 9841 Pounding or husking stone. New South Wales.  
 9842 Native paint. Western Australia.  
 9843 Native flints. New South Wales.  
 9844-9851 Stone spear heads. Western Australia.  
 9852-9855 Glass spear heads. Western Australia.  
 9856 Spear thrower. Western Australia.  
 9857-9858 Jab sticks. Western Australia.  
 9859-9860 Boolyah stones. Western Australia.  
 9861 Kangaroo sinews. Western Australia.  
 9862 Native cement. Western Australia.  
 9863-9864 Message sticks, Wongi. Western Australia.  
 9865 Native paint. Western Australia.  
 9866 Spear thrower, Womerah. Queensland.  
 9867 Police baton. Western Australia.  
 9868-9893 Spears. Western Australia.  
 9894-9901 " South Australia.  
 9902-9904 " Queensland.
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- 9698 Noa stone. Oahu. Given by Dr. C. Montague Cooke.  
 9699 Grindstone fragment. Molokai. Id.  
 9701 Hammer. Molokai. Id.  
 9702 Hammer. Oahu. Given by Dr. Wm. T. Brigham.  
 9708 Hammer. Molokai. Given by Mr. G. P. Cooke.  
 9917 Mat. New Zealand. Given by Miss Ellen Sobey.  
 9921 Sinker for upena uhu. Molokai. Given by A. F. Judd, Esq.  
 9922 Hammer. Molokai. Id.



- 9923 Fish hook. Molokai. Given by Mr. James Munro.  
9924-9927 Small adzes. Molokai. Id.  
9928-9929 Shell beads. Molokai. Id.  
9931 Wand. Molokai. Id.  
9935-9937 Sections of Kalaina wawae. Molokai. Given by Mr.  
G. P. Cooke.

*Purchases.*

- 9670 Feather Cape.

*Exchanges.*

- 9905 Arm ring. Fiji.  
9906 Girl's necklace. Fiji.  
9907 Whale's tooth ornament. Fiji.  
9908 Wooden bolt. Fiji.  
9909 Cannibal fork. Fiji.  
9910 Roll of sennit. Fiji.  
9911 Fly Whisk. Fiji.  
9912 Whale's tooth bolt for "Tiqua". Tonga.  
9913 Breast ornament. Tonga.  
9914 Fish hook. Tonga.  
9915-9916 Dilly bags. Australia.

*Collected.*

- 9703 Offerings from a fish altar. Molokai.  
9707 Offerings from Kaliuwaa gulch. Oahu.  
9918 Carved stone. Molokai.  
9932 Ulumaika. Molokai.  
9933 Polishing stone. Molokai.  
9934 Squid sinker. Molokai.

**GEOLOGICAL.**

- 9671-9685 Well borings. Honolulu. Given by Mr. J. E. Ward.  
9686-9690 Lava stalagmite. Kilauea. Given by Rev. W. D.  
Westervelt.  
9691 Lava deposited on tree branch. Id.  
9692 Ferns charred by lava. Id.  
9700 Hematite. Molokai. Given by Dr. C. Montague  
Cooke,



- 9704 Kaolin. Molokai. Given by Miss Ellen Sobey.  
 9705-9706 " " Given by A. F. Judd, Esq.  
 9909-9910 Weathered basalt. Molokai. Collected.  
 9939 Basalt. Molokai. Collected.  
 9939-9947 Sandstone. Molokai. Collected.  
 9948 Kaolin. Molokai. Collected.

### RELICS.

Given by Hon. A. S. Cleghorn, ex-Governor of Oahu.

- 9531 Gold watch, once the property of His Highness Charles Kanaina.  
 9532 Silver watch, given by the British Government to Governor Kekuanaoa in 1824.  
 9533 Gold watch, belonged to Hon. Mrs. Bishop.  
 9534 Gold watch, belonged to Her Royal Highness Victoria Kamamalu.  
 9535 Gold watch, belonged to Her Royal Highness Likelike.  
 9536 Gold watch, belonged to Her Royal Highness Kaiulani.  
 9537-9538 Silver bowl and spoon, belonged to H. R. H. Kaiulani.  
 9539 Silver powder box.  


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 9697 Piece of U. S. S. "Vandalia." Given by Mrs. W. F. Allen.

### MISCELLANEOUS.

- 9696 Exhibit of threads from cotton raised on Oahu in 1865.  
 Given by Mr. James W. Robertson.

### ADDITIONS TO THE LIBRARY.

Accessions denoted by an \* were acquired by exchange.

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Baltimore, Md.—Johns Hopkins University.  
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Berlin, Germany.—Anthropologische Gesellschaft.  
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 Brisbane, Queensland.—Royal Society of Queensland.  
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 Chicago, Ill.—Field Museum.  
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 Dublin, Ireland.—Royal Irish Academy  
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 Geelong, Victoria.—Gordon Technical College.  
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Yale University Library.  
New Plymouth, N. Z.—Polynesian Society.  
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New York Botanical Garden.  
Oberlin, O.—Oberlin College.  
Para, Brazil.—Museu Goeldi.  
Paris, France.—École d'Anthropologie.  
Société d'Anthropologie.  
Philadelphia, Pa.—Academy of Natural Sciences of Philadelphia.  
American Philosophical Society.  
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Pietermaritzburg, South Africa.—Natal Government Museum.  
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Salem, Mass.—Peabody Academy of Science.  
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Stanford University, Cal.—Leland Stanford Junior University.  
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Department of Agriculture.  
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