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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

HAWAIIAN ISLANDS

OAHU

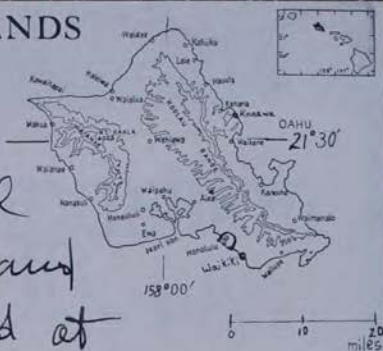
HONOLULU

Marie C. Neal
Sketch Book and
Varia, discarded at
Bishop Museum, Summer
1967

CULTIVATED PLANTS OF HONOLULU/WAIKIKI

Collected by HUGH H. ILLIS H-

University of Wisconsin Herbarium, Madison



Send to , 1967.
Hunt Library
Archives

DATE _____

FAMILY NAME		GIVEN NAME												
SECTION		ROOM												
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														



Poplar

3 Plots - 100 ft x 100 ft
 10. 100 ft x 100 ft - 100 ft x 100 ft (100 ft x 100 ft)
 100 ft x 100 ft, 100 ft x 100 ft, 100 ft x 100 ft

100 ft x 100 ft



4 fls. packed in spirals on simple branches,
 cream-colored, 12+ anthers to a flower.
 Inside of spathe salmon-pink.



Fruit X1

Oenothera echinops (Mart.)



Seed
 From side
 From below



Phoradendron alpinum, G. H. B.
- HB. *Quadrif. IV, p. 119, 1939.*



Caecotheca ovata



Same ref. IV, p. 119, 1939.

x 1/2

all 12"
stem 4 1/2 ft.
width 1" (incl. base)

Petalostemum
clavatum 1/4

10 feet
all 12"
stem 4 1/2 ft.
width 1" (incl. base)

Blau
prosp.

Prosp. in H.T.:
Nect. parviflora
x 1



Peta.
Anth.
2m



Leontodon asperula

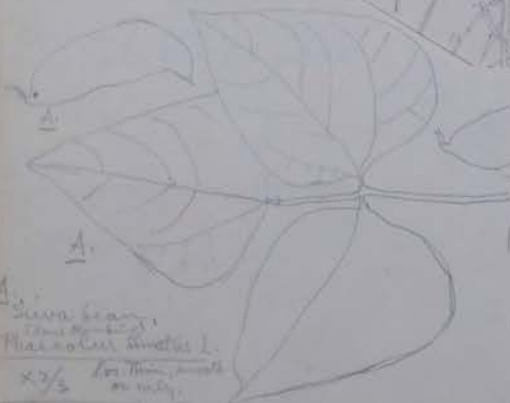
Same ref. IV, v. 1
p. 150, 1932.



x 1/2

B. high climbing.
lvs. gray-pubescent
faint, thick.

L.H.B. Custer Herb.
IV, 1x, p. 337, 1930.



A.
A.
A.
Same leaf.
Palmaceae, *Strelitzia* L.
x 3/4 lvs. thin, smooth
on edge.

What
S. L. all
to find with
S. L. all
of the
Blade

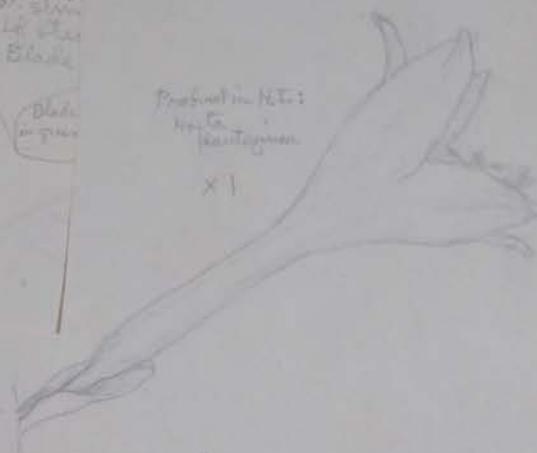
Blade
in fruit

all in
stem 1/4 lvs.
only (cut off base)

Petals
stamens 1/4

Present in H. L.
May to
September

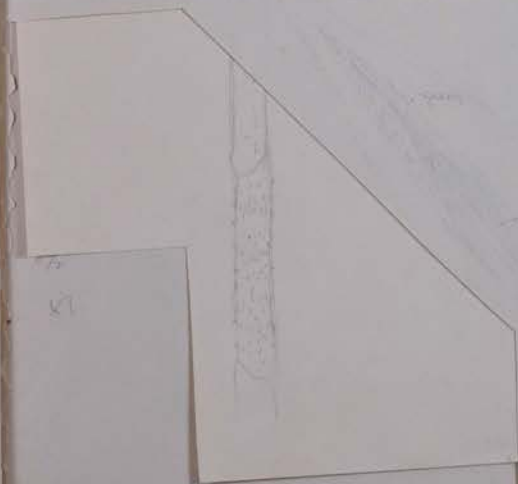
x 1



stem looked at from
narrow side, under
from at right



same leaf
Palmaceae
lvs. L.
all young
flowers with
white spots



Showing position
of embryo in center of fruit

Persea hirsuta
arborescens
Tucker 4. 5/12/43



all shades
pink & white
at most - close

Small fruit
trunk with
inner brown
marked

x1

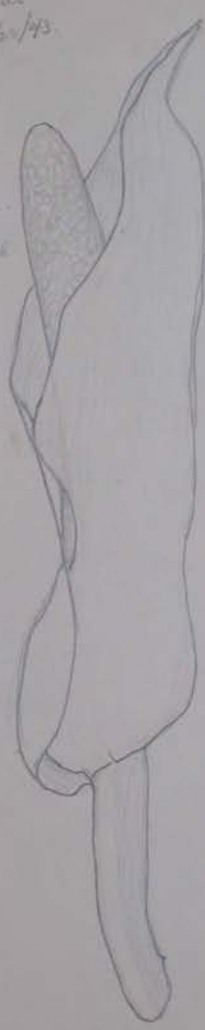


Small x 1/2 (lily)

Trunk 1/2 long
(lily)

*Trichomanes
viridescens*
6. 5/2/43.

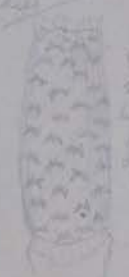
*Spadix
ovoid
setted in
brownish
peltate*



*Spadix:
brown
joint near
base
dark*



*All small
part of
at base of
leaf*



*Smooth
light brown
setted with
darkish brown
cracks*

X1

St. ovate-glob.

*Height
1 1/2"*

X1

*in 1/2 in
peltate*



Leaf x 1/2 in

*petiole 1/2 in
dimpled*



1871
 1872
 1873
 1874
 1875
 1876
 1877
 1878
 1879
 1880
 1881
 1882
 1883
 1884
 1885
 1886
 1887
 1888
 1889
 1890
 1891
 1892
 1893
 1894
 1895
 1896
 1897
 1898
 1899
 1900



Dodder
 (Cuscuta sandwicensis)

1871
 1872
 1873
 1874
 1875
 1876
 1877
 1878
 1879
 1880
 1881
 1882
 1883
 1884
 1885
 1886
 1887
 1888
 1889
 1890
 1891
 1892
 1893
 1894
 1895
 1896
 1897
 1898
 1899
 1900

Lei. of the Is.

1872

Seeds
mokiima
(Helia
aricata)



(Heliotropium
aromaticum
var. aridum
Carr)

Dodder
(Cuscuta sandwich-
iana)



- V. ... 1872
- V. ... 1872
- V. ... 1872
- V. ... 1872
- V. ... 1872
- V. ... 1872
- V. ... 1872
- V. ... 1872
- V. ... 1872
- V. ... 1872



X. 2
4155 final

... make a single Annual Report to the share-
holders. This year we are making two separate
reports. The first report is in usual form, and the other
is designed to be informal and of special inter-

Report to the employees will contain much of
the same material as the report to the shareholders
as soon as it is completed. It will supple-
ment the report and we hope the two together will
give a complete story of your plantations' op-
erations.

Have any suggestions which you might make on
the Report.

Very truly yours,

A. G. Budd
President

A. G. Butler
President

Report to the e
as a shareholder
as soon as it is
sed Report and w
ost complete sto
we have ever had

Report to the e
as a shareholder
as soon as it is
sed Report and w
ost complete sto
we have ever had

Report to the e
as a shareholder
as soon as it is
sed Report and w
ost complete sto
we have ever had

Report to the e
as a shareholder
as soon as it is
sed Report and w
ost complete sto
we have ever had

Lei. of the Is.

Fig. 172



- V. ...
V. ...
V. ...
V. ...
V. ...
V. ...
V. ...
V. ...
V. ...
V. ...



Fig. 173



The PRESIDENT AND FELLOWS of
YALE UNIVERSITY

and the BOARD OF TRUSTEES of the
SHEFFIELD SCIENTIFIC SCHOOL
request the honor of your presence at a
Convocation which will be held on 17
October 1947, in celebration of the Cen-
tennial Year of the Sheffield Scientific
School. The Celebration will include a
series of lectures and special exhibitions
which you are also invited to attend.

A program for the events of the Cen-
tennial is enclosed.



A series of four Silliman Lectures on the general subject "Progress and Promise in the Sciences" will be delivered in Strathcona Hall.

WEDNESDAY 15 OCTOBER

- 4:30 P.M. "High Energy Physics" by ERNEST ORLANDO LAWRENCE, Yale Ph.D. 1925, Hon. Sc.D. 1937, Professor of Physics, University of California.
- 8:15 P.M. "Chemical Achievement, and Hope for the Future" by LINUS CARL PAULING, Professor of Chemistry, California Institute of Technology.

THURSDAY 16 OCTOBER

- 4:30 P.M. "Achievement and Promise in Virus Research" by WINDELL MEREDITH STANLEY, Yale Hon. Sc.D. 1938, Member, the Rockefeller Institute for Medical Research.
- 8:15 P.M. "Genes and Biological Enigmas" by GEORGE WELLS BEADLE, Professor of Biology, California Institute of Technology.

FRIDAY 17 OCTOBER

- 11:15 A.M. Convocation, Woolsey Hall. Conferring of honorary degrees by President CHARLES SEYMOUR upon candidates presented by the Public Orator, EDMUND W. SINNOTT, Director of the Sheffield Scientific School.
Address by Dean Emeritus CHARLES H. WARREN.
- 4:30 P.M. Address, Sprague Hall. "Science and the Whole Man" by Director SINNOTT.
- Exhibitions—Sterling Memorial Library

Maranta arundinacea
Maranta arundinacea
Taraxacum officinale
Synedrella nodiflora
Vitis rotundifolia





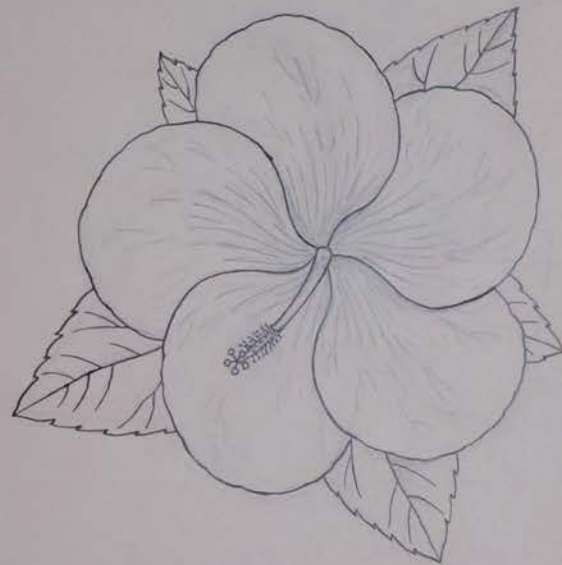
Pisanga leaf
11/4/7



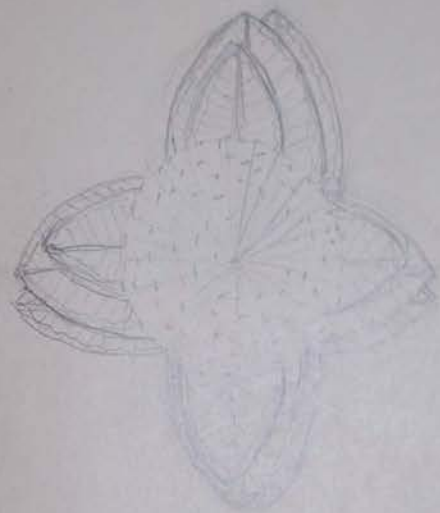
Populus leaf
11/14/19

There is a fig. 8th on farm in Kanroshi, Oahu





Dr. C. C. ... (3) 1, 6
 Dr. E. ... 1, 6
 Z. ... 6
 K. ... 6
 Mrs. P. ... 5 or 1 GP 5, 1
 " ... 5
 T. ... 6
 C. F. ... 1, 5, 6

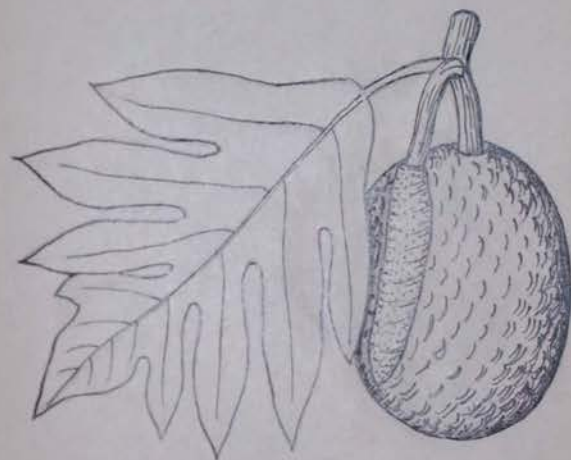


Lobelia

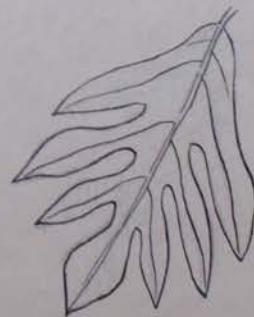


Lobelia





Breadfruit





x 1/2

H.J.

Mary (566) & Bingham

204—B MUSEUM—In the Gardens of Hawaii—67930
 many colors and sizes. These two species are apparently among
 that have been introduced to Hawaii. Dahlias are called wahoia
 of Hawaii. An old quilt design of bouquets of dahlias is *pika nui*
 (vase or pitcher of dahlias).
 39. BRUGEA TREE, SPANISH: KOKO'OLAU, PIRYUA. *B.*
pilosus L. (fig. 307, c). A tropical American annual herb, 1 to 3
 high, is a common weed in Hawaii. Leaves are opposite, simple
 ovate, or compound with three to seven ovate leaflets, averaging ab
 inches long, bearing few to many white hairs, short to long-stem
 Flower heads are borne on long stems at branch tips, are about 0.33
 in diameter, of yellow, tubular flowers only. A variety *B. pilosa*
minor (B.). Shorter has flower heads each with four to seven mar
 flowers with white rays. Fruits of the species are black, narrow,
 0.33 inch long, and tipped commonly with two or three barbed br
 Hawaiians use tips of young plants for tea. Besides three speci
Bidens introduced to Hawaii, a remarkably large number, about
 having white or yellow (or red) ray flowers, are natives of Hawaii;
 were formerly placed in a native genus, *Campylochea*. Some have
 been used medicinally by the Hawaiians, as a tonic in tea, and the
 are still gathered, dried, and used for tea, often in preference to

40. COSMOS. Some tropical American herbs, 4 to 10 feet tall, are
 bought at the store.
 or downy, are cultivated in gardens for their showy flowers. Leave
 opposite, finely divided. Solitary or clustered flower heads are born
 long stems, each head 1.5 to 2.5 inches in diameter, with two row
 bracts and commonly eight large, white, pink, red, or yellow-or
 toothed ray flowers, surrounding a small yellow center of tiny in
 disk flowers. Some horticultural forms have double centers. The
 following are annuals from Mexico: one (*C. bipinnatus* Cav.)
 wide, white, pink, or red ray flowers and a yellow center; the other
sulphureus Cav., fig. 307, b) with wide, light to deep-yellow or or
 ray flowers and a yellow center.

41. COAT BUTTONS, *Tridax procumbens* L. A rough-hairy perenn
 or annual weed from Central America grows prostrate on the groun
 a length of about 3 feet. Leaves are opposite along the stalks, coa
 toothed, narrow to ovate, long-stalked, solitary, and about 0.75 inch in diam
 yellow and white, long-stalked, solitary, and about 0.75 inch in diam
 Though cattle eat the plant, the leaves are used as an insecticide in Ce
 America.

42. GALLINOSA, *Gallinosa parviflora* Cav. A branching, h
 annual weed, from tropical America, is 1 to 2 feet high. The op
 leaves are borne along the stalk, are ovate to narrow, entire or too



Ann:

thank you, once
more, and Aloha!

Vlad. Kravtsov

July 10/57

Dr. Lyon's Data On Isle Forestry Being Distributed

Thousands of records in the office of the late Dr. Harold L. Lyon at the Hawaiian Sugar Planters Association Experiment Station are being sorted out for distribution to appropriate places.

Dr. Lyon, a major figure in Hawaiian sugar research and a pioneer forester, died May 15.

His records, filling cabinets in two rooms at the experiment station, tell the history of forestry for the last 50 years in Hawaii, said L. W. Bryant, associate forester at Hilo, who worked with Dr. Lyon 25 years.

TO BE PUT IN LIBRARY

Mr. Bryant said that the data dealing with forestry will be placed in the H.S.-P.A. library, where they will be available to anyone interested in the subject.

Information regarding the Lyon Arboretum (formerly called Manoa Arboretum) will go to the University of Hawaii and that involving Foster Gardens will be sent there, Bryant said.

Recd Bishop Mus. 7/57

Bryant said that he and Dr. C. E. Pemberton also will recommend that Dr. Lyon's herbarium, containing thousands of pressed plants, be given to the Bishop Museum.

RECORDS ON SEEDS

The files include detailed records, he said, for each lot of seed introduced to the Territory by Dr. Lyon, in addition to all other plants introduced to Hawaii. Dr. Lyon introduced 10,000 lots of seed.

July 5, 1957.

Dear Mary,

Here is your letter about some old Hawaiian pictures. I think such a study would make a very interesting piece of research for you and Dr. Seares on your next visit to Honolulu. You would be welcome to use our library, and someone there might be helpful in your detective work. Other local museums would be glad to cooperate too, I am sure.

I can get a photo of Webber's print of canoes. But first I want to make certain of the subject, and of the size. Is it the picture with ten masked warriors in a double canoe with large sail? One of the men is carrying an idol, and they are paddling toward shore, evidently, at the right. A mountain slopes steeply behind such as at Kealahou Bay. Or is it the one with about sixty men in two or three canoes, one of which has a large sail? Those men are not masked. Our negatives are about 3 x 5 inches. Do you want the photo enlarged, and if so what size? Do you want shiny or dull finish? Let me know these details, and I shall be glad to order it for you.

With best wishes to both of you,

Aloha!

Dear Marie:

June 17/57

Ans. Over

Your letter with so much interesting information came this morning just after I had mailed a note to you. Many thanks for the card of the Silver Sword which I'll plan to send to my Ohio friends right soon.

I was glad to get Margaret Burto's Reunion report and glad all went so well. I imagine my friends may not know just where we returned and will write me later.

Your research work brought us information which is just what we wanted. However, as always

in research one job leads to another and I have a few questions. First, does the Museum have for sale a photograph of Webber's print of the Warrior Canoes in which one canoe has a large sail spread? If so Fred would like one very much (if you'll please quote cost I'll send it).

How intensely interesting that the differences in the photos of the pictures of Kaahumanu have escaped notice! Fred noticed them at once though as it happens we never saw the two together. Fred says he thinks all Choris' paintings were in water color.

though copies made later - some
by a Chinese artist - were in oils.
As we think back and try to
remember where we are not
sure of the one in Kona. We
think there was one where the
Queen faces left.

However we are sure that
the one in the Queen Emma
House is a photograph by an
Honolulu man - Williams - of the
Choris painting in which the
Queen faces left. Also in the
Academy of Arts there is an
engraving (I think) made from
the Choris. We tried to find
there the original but failed.

The Academy does have ^{some} Choris originals however.

As a frontispiece to her "Magnificent Patriarch" Mrs. Kathleen Mellen uses a lovely picture of Xaxahumane - one in which the Queen has long hair. Is this a made up picture or did she at one time have such lovely hair? Fred suggests it may have been especially touched up. We understood but may be wrong that Mrs. Mellen had that picture copied from one in the Queen Emma Museum but the Custodians there had never heard of such a picture.

I do not mean to have you do anything special to resolve these queries but thought the Museum might be interested in tracing them. Fred with his inquiring scientific mind always likes to have inconsistencies explained.

As I wrote before our trip was most delightful and we have many many treasured memories. I too am looking forward to another stay and hope it won't be too long before wishes come true.

The best of wishes from us
back. Lovingly, Mary

11 BARRETT PLACE
NORTHAMPTON, MASS.

July 4.

Dear Marie:— such a good day to
write to you in— crackers on all
sides and horns tooting, a real
Fourth, though I am not getting
the whole of it, since I am
away from the center of town.
So many times I have started
to write and then found the
information I wanted to send was
at Burton Hall— so many times
I have wondered how things were
going with you— if Dr. James
was still proving a good draw-
ing card and you were going
to his lectures— how the ~~Prep~~
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more. Probably they have turned
coastward by now. In fact you
see I haven't heard from a word
since I left the island.

July 9-

Noise was too much for me
so I'll start again. By now
Sue Rambo and Miss Secor
must have reached there and
Miss Secor goes on. While I do
not know Sue's plans, I expect
she will try to get over to
Hawaii to see Katherine Ford
and has only two weeks
before her next sailing anyway.
As for us here, our accom-
modation is over and "Aunt
Iglad," since it was very
inconvenient and I had to look

11 BARRETT PLACE
NORTHAMPTON, MASS.

out for rooms and to generally agreeable - a task for me who care little for my classmates, but a great deal for some who are not in my class. They came Alumnus College & some stayed over for that. They everybody was leaving today and now I am really almost alone so far as College people I know are concerned. One comes to me tonight and starts Sunday for California to study at the Univ. of Cal. Gladys Ausley and Tuesday Margaret Kemp stays here for a night and starts in car for Cal. for the year. I have to think she

may try to get to the Island
while she is there. She is a
botany faculty with years less
of absence - Dr. Cas. Brigham
will spend some time in
Pacific Coast in her half-
year sabbatical. You see Europe
does not call so many men

Well, what have I done since
I returned? Not too much -
troubles with *Diclyosporium* plants
which were pretty well killed
by doctoring of the Dept. of
Agriculture on entrance from
Panama - My *Dicelia* plants had
not come up but to my
surprise I have two protactia
in peat - spores sent air mail

11 BARRETT PLACE
NORTHAMPTON, MASS.

in March - germinating in July.
I have drawn some of my
young sporophytes and they
as fruits look much like those
drawn from Mr. Munro's plants.
Perhaps internal structure will
clinch it - The *Casuarina* mat-
erial is getting in - I am going
down now to Burton to cut
sections.

I cannot find my comparison
of different botanists as to
classification but I am enclosing
one I used to use, while if you
like you may follow James
as his Morphology - The fossil
book I referred to is ^{Dr.} Max Hirtz
Handbuch der Paläobotanik
München + Berlin 1927

how and putting in evidence.

Druck und Verlag von R-
Oldenbourg - Band 1 - (marked
in margin III. 42) There must
be by now a second volume
though this one deals with
Pteridophytes - O by the way
have you got Dr. F. James
Morphology of Vascular Plants?
It is published by Mc Graw-
Hill - New York - I do like
Bowers treatment of Pteridopsida
terms better so I am copying
this for you - also sending
a sheet from Engler - Dub late
classification.

I must get down town
+ to Barton so I'll send my
love and run away - I want
to see Honolulu and you -
Hunt Institute for Botanical Documentation

11 BARRETT PLACE
NORTHAMPTON, MASS.

Jan. 15, 1937.

My dear Marie:— Before I start on my
cruise I want to write you and
tell you how I am enjoying my
nice box from Honolulu. I have
drunk up all the papaya juice
and have asked my grocer to
see if he can get it here. It
(the fruit) is especially good for
my digestion workings and
the juice seems to keep too. The
tea and ginger Lee sample
later, the ginger on my trip.
The little piece of Japanese clock
is interesting too. I had such
fun fitting in my things I had

acquired in N. Z., Fiji, Honolulu
etc. to my friends' Xmas. Some
times they didn't fit at all
and I kept those. See wages
you had some of the same
experience. I wonder how the
Museum goes on under Dr. Tuck
and how the Gregorians are. Do
tell me this - for I haven't heard
from Mrs. Gregory since I left
and I had hoped to see her
in the summer, but not a word
Are they well? I had just
a note from Miss Miller, thanking
me for some addresses I sent her.
I do hope her trip is as suc-
cessful as yours was. Remember
me to Miss Hartt.

11 BARRETT PLACE
NORTHAMPTON, MASS.

On Feb. 6 I set sail again on
the steamer Columbus for new
worlds. My boat goes through
the Canal first where I hope to
spend the time in Barro Colorado
collecting Dictyopharina to finish
a paper I began some years ago.
We go down the west side to
Lima, Arequipa, Valparaiso and
Santiago where we leave the boat
and cross the Argentine to Buenos
Aires & Montevideo where we meet
the boat, which has meanwhile
gone through the Straits - then
on to Rio de Janeiro and Bahia to Trinidad
Again I leave the boat, and
after 2 weeks or so at Port of

Spain go to B. Guirra and then
return thro' the Islands to Porto.
April 26 — I resigned this year
and so now I can play every
winter and I think next
winter I'll get back to Honolulu.
At least that is my plan.
I do hope you are well and
having a good time too.

Would you be willing when
you are out in your car to
collect some material for me
when I was there some years
ago I got some *Casuarina*
flamboyant branches (I was with you)
dated April 4. I do want
some younger (these are about
 $\frac{1}{2}$ inch long) when they are just
to see. In the intervals &c.

11 BARRETT PLACE
NORTHAMPTON, MASS.

~~my~~ collections of *Ferns* I try to
something else. The *Declia* spores
did not germinate at all on
the agar. Miss Hartt will re-
member how carefully we sowed
them - Only in one tube was
there any germination so the
cause was something else - lack
of moisture or too young spores
Who knows? This time I am
going to sow some old spores
a few roots or flower pots, paper
moist and hope to raise some
small sporophytes which I need
to check up on the material
Mr. Munro got from Lanai.

In spite of the fact I
Hunt Institute for Botanical Documentation

6:94:11 X 1240

have resigned the President
says I may keep my office and
have space for research, so I
hope to work spring, summer and
fall and run away for
winters to a warmer spot.

If you can find the *Ceanothus*
both male & female - put in
^{94 cc of}
^{50 or 70 %} alcohol - about 6 cc. of commercial
formalin

We are having a lot of
rain and warmer weather
than usual but extreme cold
is predicted for tomorrow.

College goes on as usual but
due to a curriculum change we
have fewer students this year
in Botany. Dr. and Mrs. Gentry
still live in town. Lucy is
12 years old and little Anne

11 BARRETT PLACE
NORTHAMPTON, MASS.

clear and their father's
heart is just centered in them.
They are nice kids too.

I must get to work. I have an
interview with a girl who
has a free unit in Botany.
they do examination and
I am through teaching. I may
feel badly later but at present
it looks like a big relief.

My best wishes for 1937.

Much love to you -

Frances Grace Smith

Snow
Lexington
Kentucky



AIR MAIL-POSTAL CARD

Miss Marie Neal
Botany

Bishop Museum

Honolulu 17

Hawaii

My dear Marie Neal: 21 Apr. '52
Aloha or Hi from the Colo. Rockies
of Boulder Co.

Today, like my departure 21 Sept. '51,
is full of heavy-falling snow - Br.v.r.

The Pasque, candy-tuff, Spring Beauty
flowers are in bloom in the foothills

That lovely Mauna Loa Lei kept
fresh & thrilled the hearts of my Hawaiian people
with its beauty. Thus your Aloha spreads afar!
Best always C.E. SNOW



Sarma

Ansicht: Lethländischer Wald
in Raubholz.

Sehr geehrte Hr. Neal,

Priga, 4.12.31

kofte 'nem Verzeihung, wenn ich
 sie nochmals belästigen will er-
 laube. Vielleicht ist es noch mög-
 lich, dass Sie in Ihrem Examen
 aus der Gelegenheit einige Bathe-
chorien u. a. Einmischungen u.
Phasen für mich bringen? Einige
 Phasen aus Flammkuren für
 meine Arbeit ausserordentlich inter-
 essant. Mit herzlichem Abschied und
 freundlichen Grüßen H. Speyer

Bryan

E.H.B.:

Why do we have to have
the packages of plants from
N.Y. Bot. Gardens? They are
from N.Y., Montana, Va., Quebec,
and are not desired. A few
are included from Venezuela
that we might like, but not many.

M.C.N.

Send names to Tomitch - (through Samouroux at UH. if necessary) - keep the specimens - B.C. Stone. Dec '60

UNFINISHED BUSINESS

A package of 21 plants collected by P. Quentin Tomich on the Hamakua coast, Hawaii, was received from B.C. Stone 5/25/60, who asked me to check the names. This I have done and renamed some. What follows? Does Stone want the plants with the names or only the list of names or should they be sent directly to P. Q. T.--the package + names?

12/12/60

W. C. Neal

CONFIDENTIAL PLEASE DO NOT LEAVE THIS MEMO AROUND
Miss Neal. Sept. 30, 1958

At the request of Dr. St. John, I have put the specimens of Hawaiian species of *Cyrtandra* and *Sida* away in Room 27 for safe keeping until his manuscript on them is published.

I also have placed in Room 27 numerous packages of his plants, with numbers between 24000 and 26000, which can come to you to be mounted, whenever you have time to process them.

The "mountain" of specimens of *pandanus* is being stored in a room in Bishop Hall.

Bryan

March 16, 1955.

Dr. Tuthill:

Womersley's paper describing some new species of green algae from Australia seems to me suitable for Pacific Science. Some changes should be made in the MS. On its margins I have made some suggestions and have clipped on it here and there suggested substitutes.

Among these changes are:

- (1) In the metrical system, decimals, not fractions, should be used; see p.3 where both are used-- $1\frac{1}{2}$ and 1.4!
- (2) Shouldn't spellings be Americanized? Bishop Museum does this, as recognize for recognise, etc.
- (3) Abbreviations for herbaria should be explained in the introduction, AD, MEL, see my suggestion on p.1.
- (4) Citations: It is important to give complete data for all specimens cited, especially for the types. Some information I found on the illustrations and have added it to the substitutes. The collector's number, if any, would not be the same as the herbarium number. As isotypes are naturally the same number as the types, it is not necessary to say they are thus distributed. I have rearranged the citations to agree with Pac.Sci.IV, 3, p.258, 1950, which seems to me more logical and having less repetition. At any rate, each specimen should be cited with name of collector, number, location, date, as well as giving the institution where it is kept.

About illustrations. As you know, Yours truly,
it is desirable to have new species figured.

I believe all these figures and plates should

be used. But shouldn't we ask for clearer pictures for

Pl.1, fig.2 and Pl.2, fig.1? They are out of focus, and faint

parts might fade away when reproduced.

M C Neal

May 30.

Miss Neal.

~~Please write the new determinations~~
~~on the other sheets in each folder. I~~
~~have done it on the type or first sheet.~~

Please see that Hosaka makes the
necessary illustrations of the new species,
then hand it to the editor for publication.
H. St. John

Drawings for Hosaka to make:

Clermontia Forbesii St. John, sp. nov.

" *hirsutinervis* " " "

" *reticulata* " " "

" " *f. pilifera* St. John, f. nov.

" *Munroi* St. John, sp. nov.

" *molokaiensis* " " "

" *subpetiolata* " " "

" *wailauiensis* " " "

" *hanaensis* " " "

SYMBOLISM OF HERBS

"And by the icon or image of every herb, man first found out their virtues. Modern writers laugh at them for it, but I wonder in my heart how the virtues of herbs came first to be known if not by their signatures. The moderns have found them from the writings of the ancients,--the ancients had no writings to have them from." Nicholas Culpeper 1616 - 1654

The display is symbolical. In the center of the miniature garden stands Saint Fiacre, Patron of Gardeners. He is surrounded by herbs which are available to men the whole world round, men who seek the virtues associated with their use. Almost every growing green has a symbolic meaning, for the body, the mind, or the soul.

Balm	.....	Sympathy	Mugwort	.....	Be not weary
Basil	.....	Good Wishes	Parsley	.....	Festivity
Box	.....	Strength	Rose Geranium..	.....	Preference
Burnet	.....	Merry Heart	Rosemary	.....	Remembrance
Camomile	.....	Patience	Rue	.....	Grace
Chervil	.....	Sincerity	Sage	.....	Wisdom
Chives	.....	Usefulness	Santolina.....	.....	Wards off Evil
Horehound	.....	Health	Savory	.....	Spice
Hyssop	.....	Sacrifice	Southernwood ..	.....	Constancy
Ivy	.....	God	Sweet Woodruff.	.....	Humility
Juniper	.....	Protection	Thyme	.....	Courage
Lavender	.....	Devotion	Violet	.....	Devotion
Marjoram	.....	Joy	Yew	.....	Immortality
Mints	.....	Eternal Refreshment			



Symbolic Display of Herbs
At Boston Flower Show, 1958
Greene Herb Gardens, Greene, R. I.

Home Office of
PEPEKEO SUGAR COMPANY
Post Office Box 3470
Honolulu 1, Hawaii

June 3, 1949

Dear Shareholder:

The preservation of the economic life of Hawaii hangs in the balance. The profitable production of sugar has been the keystone of this economic life. We are at this time threatened with a plantation strike unless we accede to the wage demands of the I.L.W.U. The present plantation wages are the highest in the United States for similar work. As a result, the cost of sugar production in Hawaii is the highest of any area supplying the American market.

The plantations have made, and are making, strenuous efforts to eliminate every non-essential operation in order to support the present wage scale and at the same time bring their unit costs more nearly in line with other areas. In doing this, millions of dollars have been spent for mechanical devices. Many of these dollars have been borrowed and must be repaid. This year (1949) bids fair to show some economies resulting from these investments. It would appear, however, that the union leaders sensed this improvement and moved to make it impossible. I believe they have been surprised at the resistance on the part of the plantation employees to a strike.

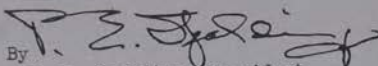
The plantations offered to tie wages to the price of sugar. Present wage rates were to be geared to a price range between \$112.01 and \$114.00 per ton of raw sugar. Wages would change up or down at the rate of 1 1/2 cents per hour when the average price for a three months' period was above or below those figures. Further, for every \$2.00 change above or below the prices named there would be an additional wage change of 1 1/2 cents per hour. The plantation offer has been rejected by the union leaders. The rejection of the offer, in my opinion, was largely due to its promise of labor peace.

I believe the union leaders are sincere in their threats to 'bust' Hawaii. I believe also that this irresponsible leadership can be defeated if we stand fast in our determination to make no concession. Any surrender to any degree would merely expedite the ends they seek. The plantation employees must understand that whether they strike or not, the plantations will never recede from the position which has been taken. They must also understand that there will be no jobs if the plantations fail.

Enclosed is a stamped envelope addressed to the writer. Any comments you may care to make, or any assistance you can personally render, no matter how small, will be greatly appreciated.

Yours very truly,

PEPEKEO SUGAR COMPANY

By 
P. E. Spalding, President

cb.
Encl.

17,
June 10, 1949.

Mr. P. E. Spalding President,
Pepeekeo Sugar Company,
c/o C. Brewer & Co., Honolulu, Hawaii.

Dear Mr. Spalding:

Your letter of June 3 to shareholders of Pepeekeo Sugar Company, with the clear statement of the sugar problem, is much appreciated by me. I agree absolutely with the firm stand you have taken to make no further concession, and I sympathize most sincerely with you for the hard times that our Company is passing through, along with other Hawaiian sugar companies.

As you ask for comments and assistance "no matter how small," I am taking the liberty of suggesting the following:

1. Ask the F.B.I. to investigate all Union members and leaders for Communism, and then discharge the guilty ones.
2. If strikes are legal, have a strike against the strikers: raise their rent, charge more for hospital care, raise rates at plantation stores, etc.
3. Engage intelligent Filipinos and Japanese to talk to uneducated Filipino and Japanese workers, explaining the destructive aims of Communism; telling them that they already are the best paid sugar workers; etc.
4. The laws regulating the price of sugar should be changed. The price of everything else has risen. Therefore, more should be charged for sugar.
5. Is not a department for research in labor relations needed?
6. Give sugar workers shares in the company instead of increase in wages. As the company prospers, give each worker credit for a certain fraction of a share, say. As this amount increases and they get more shares and dividends, they will learn the meaning of capital and even become capitalists themselves.
7. This is actually a civil war. The enemy, the Union, is within. Therefore, have some system, as of coupons for all non-Union people, so that Union people cannot buy food or clothing in stores in towns and cities.
8. This is a war of wits. Hire the cleverest lawyer in the world to handle it.

I doubt that any of these ideas will interest you. But even if they should, I do not need or expect an answer to this letter.

Very truly yours,

PROF. DR. MISAO TATEWAKI

DIRECTOR, BOTANIC GARDEN,
HOKKAIDO UNIVERSITY, SAPPORO, JAPAN