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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.

ORCHID HERBARIUM OF OAKES AMES
BOTANICAL MUSEUM, HARVARD UNIVERSITY
OXFORD STREET, CAMBRIDGE 38, MASSACHUSETTS

Sept. 10, 1962.

Dear Paul:

On my return from a vacation this morning I found your two letters which I shall now answer.

Under separate cover, I am most pleased to send to you a copy of the fourth part of my Orchids of Peru together with a title and index.

I do not ^{know} anyone more deserving of any attention than you and Dorothy.
^

Now as to the Orchids of the Mutis Expedition.

The size of this work is Folio. We are all satisfied with the color reproductions. There will be three volumes in all including about 300 plates. Shortly Vol. I will be available. While we do not know the definite price of these volumes, the volume on Quinine is \$15.00. I am told that the Cultura Hispanica, Biblioteca Nacional Colombiana, Calle 24, Bogotá, Colombia handles the orders. Richard Schultes vouches for this information.

This season I had planned to join Mr. Orville Crowder's trip to the Orient, including Alaska, Japan, the Philippines, Formosa and Hawaii; but as this expedition was cancelled due to insufficient registrations, I went on my own to Mt. Rainier, Hawaii, San Francisco, and Salt Lake City. In spite of bad spells of weather, I had a good change and garnered many new sights and I hope pictures (not yet seen).

Thank you for your kind invitation which I might accept sometime.

You are indeed fortunate to have such a wonderful help mate as Dorothy. Please give her my warmest regards.

With my heartiest regards to you both, I am

Cordially yours,

Charles Schumfurther

ORDER

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Research Department
United Fruit Company
Tela, Honduras -
September 1, 1962

Dear Charles:

Can you tell me anything about the present status of the Orchids of the Mutis Botanical Expedition, which I am told you are doing with Alvaro Fernandez Perez? For example:

What is the page size? (I have been told it is folio.)

Are you satisfied with the color reproduction?

How many volumes (and plates) will there be in all?

Are any available now?

What is the price per fascicle or volume?

Who handles orders for this, in case I decide I can afford it?

I saw a few of the originals (I believe) in Buddy Killip's office when he was still in Washington and remember them as having been magnificent. Any information that you can give me would be very much appreciated.

Most sincerely,

Paul H. Allen

Research Department
United Fruit Company
Tela, Honduras
August 24, 1962

Mr. Charles Schweinfurth
Ames Orchid Herbarium
22 Divinity Avenue
Boston (Cambridge) Mass.

Dear Charles:

On checking my bookshelves I find that I do have the first three fascicles of your wonderful work on the Orchids of Peru, but that I still lack the final, or fourth part. I am anxious to get this, if it is still available, and would greatly appreciate a copy, if you have an extra on hand.

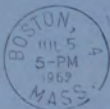
We naturally wonder if you are seeing some new part of the world for the first time in the present vacation month of August, or if you are re-visiting some favorite spot. We would be very happy to have you here, if your travels bring you this way, and could promise some interesting plants of other kinds at Lancetilla, but not many orchids. We have Polystachya clavata in flower now, which I hadn't seen before, but we are too low and wet for most things.

Dorothy is busy canning and freezing fruit samples to be sent to Europe, where the Fruit Company hopes to develop a side line with the Bakery trade, but joins me in warmest regards.

as ever,

Paul H. Allen

CHARLES SCHWEINFURTH
11 Boulder Road
Wellesley Hills, Massachusetts



Dr. Paul H. Allen
United Fruit Company
Tela
Honduras
Central America.

AÉROGRAMME • PAR AVION

FIRST FOLD



11 Boulder Road, Wellesley Hills, Mass., U.S.A.,
July 3, 1962.

Dear Paul:

The receipt of your appreciative letter of June 24th inspires an immediate reply of hearty thanks. Your kind words make me very humble, for, if I didn't know you better, I might be regard them as fulsome exaggeration. At any rate, I am certain that I do not merit any of the well-meant and kindly praise that you have seen fit to send my way. So I shall take the will for the deed, and I shall strive to deserve some of the encomiums that you imply.

When I had a last fleeting glimpse of you, I was to be informed whether you had received any or all of my Orchids of Peru. If you had not obtained all or only a part of the four volumes, I want to send you the missing portions.

It is your own elaborate work on the forest flora of the Golfo Dulce region that really deserves the real praise.

With the kindest regards to Dorothy, I am
Cordially your friend,

Charles Schweinfurth

Charles Schweinfurth

Herb no. 1, 2 & 3 - Herb No 14

Tela, Honduras
June 24, 1962

Dear Charles:

Copies of your Classification of Orchids and Key to the Orchids, which form part of the general work edited by Carl Withner have come to hand within the last few days and are wonderful examples of the clarity of presentation and scholarly thoroughness that we have all come to associate with your work. I am delighted that you have been able to find the time to bring together such a wealth of useful detail from your long years of experience, and predict that it will stand as a landmark in its field for many years to come. It must be a great source of satisfaction to you to know that you have contributed so much of a truly fundamental nature in a group that will always be of interest. I always inflate my chest a little when I say, "yes, I know him personally. He's a very nice guy who likes to ice skate, and travel, and watch birds." So you see, we're all proud of you. Dottie joins me in congratulations.

Most sincerely,

Paul H. Allen

CENTRO NACIONAL DE AGRONOMIA
SANTA TECIA, EL SALVADOR

October 25, 1958

Dear Charles:

Your kindness in tracing the recent sending of a single flower of Oncidium Liebmannii is greatly appreciated, since I know full well how difficult such a task can be, even with the best of material. What put me off in Williams key was the "auricles of the column wider toward the base than toward the apex", which with the more or less ensiform leaves would have brought me to O. sphacelatum, which it most emphatically is not. I have since seen one or two additional specimens, one with a longer, paniculate inflorescence, which bears out your prediction. I will try to get a better specimen into the mails for you within the next few days for the record, since it is definitely found in El Salvador.

While I have found the identification of illustrations, with the exception of common and well-known species a frustrating sort of chore, I can at least sincerely envy you the opportunity to see the original orchid plates done for the Real Expedicion Botanica. We have heard rumors that these may possibly be published in the near future, and hope that your trip is a step in that direction. Production of such a truly monumental work might stimulate a little more interest in botanical science in these decadent times and provide the general public with a glimpse of the wonders of tropical nature. We will look forward to hearing of your adventures, and recommend H.V. Morton's "A Stranger in Spain" (Dodd,

Head: 1956 as a bedside companion. Dorothy joins me in renewed thanks and warmest best wishes for every success in your new venture.

As ever,

October 22, 1958

Dear Charles:

Your kindness in tracing the recent sending of a single flower of Oncidium leucanthum is greatly appreciated, since I now will not have to search a tank can be, even with the best of materials. What put me off in Williams key was the "anthesis" of the column which toward the base than toward the apex", which with the more or less smaller leaves would have brought me to O. leucanthum, which is most emphatically a not I have since seen one or two additional specimens, one with a longer, purplish inflorescence, which bears out your prediction. I will try to get a better specimen into the mail for you within the next few days for the record, since it is definitely

Yours in El Salvador.

While I have found the identification of illustrations, with the exception of common and well-known species a frustrating sort of chore, I can at least sincerely say for the opportunity to see the original orchid plates done for the Real Expedicion Botánica. We have heard rumors that these may possibly be published in the near future, and hope that your trip is a step in that direction. Production of such a truly monumental work might stimulate a little more interest in botanical science in these desolate times and provide the general public with a glimpse of the wonders of tropical nature. We will look forward to hearing of your adventures, and recognize H.V. Morton's "A Stranger in Spain" (1954)

ORCHID HERBARIUM OF OAKES AMES
BOTANICAL MUSEUM, HARVARD UNIVERSITY
OXFORD STREET, CAMBRIDGE 38, MASSACHUSETTS

Oct. 17, 1958.

Dear Paul:

It is always a pleasure to hear from you, even if it requires a long delving through the mazes of *Oncidium*.

I think that your species comes very close to *O. Liebmannii* Reichb.f. ex Kränzl., if it not actually an exact match. That "taxon" is very variable and some of our collections agree well with this species. Of course, most of the members of this alliance are paniculate, sometimes with very loosely few-flowered branches. It is only Mexican. A more exact determination would require a complete specimen.

It is in the cards for me to go to Madrid very soon to try to identify the orchid plates drawn by Mutis many years ago.

Please give to Dorothy my very best wishes which are shared by yourself.

Yours cordially,

Charles Schwimfuth

CENTRO NACIONAL DE AGRONOMIA
SANTA TECLA, EL SALVADOR

October 11, 1958

Dear Charles:

Can you offer any suggestions as to the specific identity of the enclosed?

It has me completely stumped, since it keys out to nothing much closer than Baueri, which I should judge it is not. Pseudobulbs are ovoid, laterally compressed and more or less sulcate, averaging 2 to about 2 1/4 inches in height, with two or three very slender, acuminate leaves at the apex. Spikes are 4-6 flowered racemes 8-10 inches long, so that the entire habit is smaller than its supposed relatives in everything excepting flower size. I have seen quite a few of these in private gardens here, and on pressing up one or two that were given me to photograph, so that a better specimen will be available if it proves to be anything of interest.

Things rock along quietly on my main project, which is concerned with the native and introduced trees of the country, with most of my time up to the present having gone into a search of the literature, sorting of existing collections, and listing common names from adjacent areas. I will be happy when the time comes to get out into the field a bit more, but it seemed to me to be important to know what had gone before prior to adding to the existing confusion. Time simply flies, and it hardly seems possible that we have been in the country more than two months already.

Dorothy is busy getting ready for guests who are expected in this evening, but joins me in warmest best wishes,

as ever,

July 9, 1958

Dear Charles:

This is just a note to thank you for the charmingly inscribed first volume of your monumental Orchids of Peru, which was awaiting us here on our recent return from a three months absence in El Salvador and the United States.

I am afraid that very few of those who use your wonderfully fine and scholarly work will have any idea of the long years of patient and painstaking labor that went into its preparation, but you can at least have the satisfaction of knowing that you have produced a standard of excellence that will stand as long as man's interest in the orchids endures.

You may be sure that your many friends receive a certain vicarious lift from the fact that you are at long last coming in for a little well merited recognition, and to know that your many outstanding qualities are now as apparent to the rest of the world as they are to ourselves.

Dorothy joins me in renewed thanks and congratulations,

Most sincerely,

Paul H. Allen

ORCHID HERBARIUM OF OAKES AMES
BOTANICAL MUSEUM, HARVARD UNIVERSITY
OXFORD STREET, CAMBRIDGE 38, MASSACHUSETTS

Sept. 13, 1957.

Dear Paul:

It was nice to get your recent letter as usual. In the interval before I settle down to my regular work of identifying, I took the time to examine your *Mormodes* flowers.

The dried flowers (when boiled up) seem to me to be a good match for *M. aromaticum* Lindl., as represented in our herbarium by both Honduranian and Mexican material. Moreover, the plate in Bot. Reg. 29(1843) t. 56 appears to represent it well. There seems to be a slight variation in the apical lobe of the lip.

It seems to me that the other species (represented by the enclosed photograph) may be referable to *M. atropurpureum* Lindl. of Costa Rica and Panama.

It seems that I was never so glad to see the good old U.S.A. as when I flew back from London just a week ago. God gave me the chance to see many wonderful sights as well as to take many pictures of Switzerland and the old spots of Carcass^{on}e and Rothenburg, but traveling is very tiring, especially when concentrated and alone.

With thanks and best greetings to you both, I am

Your cordial friend,

Charles S.

P.S. I hope you received my card. C.S.

September 9, 1957

Dear Charles:

You will find enclosed two flowers of a queer Mormodes that I have seen once before, but which seems to be excessively rare in our parts. So far as I can make out, it must be pretty close to M. aromaticum Lindl., but differs in the hastate rather than broadly cordate terminal lobe of the lip, and, perhaps, in the curious illusion, at least in fresh material, of having this organ assume the form of a quaint, rather oriental-looking slipper, due to the strongly confluent lateral margins.

Our single specimen was found in the pine-oak hills east of Tegucigalpa, as you will note, growing on a rotten pine branch in full sun. Our Mormodes here are generally infrequent, and decidedly unusual, the only other, and somewhat commoner kind being shown in the accompanying photograph. This last seems to match the plate of M. sinuatum in Hoene's magnum opus, but it would be pretty far afield from Brazil.

In any event, your expert opinion would be greatly appreciated, if & when you can find the time. We both hope that your European travels have left you cheered, stimulated and only nostalgically "ruined". Dorothy joins me in warmest best wishes,

As ever,

Paul

June 16, 1957

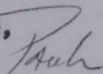
Dear Charles:

Do you have any idea what this thing is? Ruth Oberg sent it to me some time ago & wanted to know if it was *Alamania gemma*. I have no record of any such species and have never seen the thing before. If it is worth keeping the collecting data would be:

Collector - Walter Miller
Locality - Road from Mitla to San Lorenzo, Oaxaca,
Mexico, on oaks in open, rather dry
forest at about 6000 ft.
Date - None given.

We wonder where you will be vacationing this year, and whether it might by any chance be down our way. Even if you could only stay for a day or two we would be delighted to have you and have plenty of room. Dorothy joins me in most sincere regards to your self and to Dick Schultes,

As ever,



ORCHID HERBARIUM OF OAKES AMES
BOTANICAL MUSEUM, HARVARD UNIVERSITY
OXFORD STREET, CAMBRIDGE 38, MASSACHUSETTS

Sept. 11, 1956.

Dear Paul:

I certainly owe you most hearty thanks for recommending to me a delightful sojourn and particularly for your most helpful suggestions. We travelled entirely by air, which was perhaps advisable considering the time element, though I should never prefer that method.

After spending a night at New Orleans, we flew to Merida, where we roasted for two days and got thoroughly "ruined" at Uxmal and Chichen-Itza. The remains were wonderful! It was a blessed relief to breathe the cool clear air of Guatemala City where we rested for nearly two days. An enterprising guide took us in toe for a week's tour of the country, for \$25 per day including his car, driving and keep.

It was really worth the price, for he was not only extremely obliging and talked both English and Spanish (which latter tongue is a stranger to us both), but showed us the most striking sights. The first stop was Antigua, a wonderful spot, where he took us to the Rancho Nimajay. This is a truly delightful inn - a sprawling stone building set in a tropical garden, affording charming views of Aqua, Acatenango and Fuego. I hated to leave. He then took us over the mountains by hair-raising turns to Lake Atitlan where we spent the night at the Casa Contenta. By still more beautiful but dangerous route, we wheeled through the heights to Quezaltenango where we again spent the night. My friend was sick from the "driving" and perhaps a "bug", but he recovered after taking both Streptomagms and Enteromagms. Then we drove past Me-mostenango and Quiche to Chichicastengo, just in time for the Saturday and Sunday market and religious ceremonies, when we stopped at the Mayan Inn. It was but a short drive back to Atitlan, where we dis-

at the Palace Hotel

missed our guide and basked in the beauties of the Lake ^{at the Hotel Tzucrujyer} for over four days, during which time we took the mail boat up the Lake to the amazingly picturesque but filthy Indian settlement of Santiago de Atitlan where I took 36 pictures.

At that time, we decided to return to Guatemala City for a brief air trip to Coban. As you know, this is a bit of the humid tropics with a lot of rainfall and ~~astoundingly~~ luxuriant vegetation. There I saw several epiphytic orchids, notably *Epidendrum difforme*, *E. ibaguense* and *Comporetia falcata*.

On the return we got a beautiful view of Orizaba on the way to Mexico City where we stopped for a day. Of course, I had been there before, but was anxious to show my friend a little of the city. We visited the new Universidad which is a collection of hideously modern "packing-boxes"; surely not "architectural", but perhaps "functional".

I have not yet seen my pictures, but I cherish hopes that some of them will be pleasing. However, I never saw so many clouds and changing light conditions, so, although I took unusual pains, I fear the results.

I am sorry that we had to give up the alluring side trip to see you and the Escuela, but perhaps we may take that in later.

Please give my kind regards to Dorothy and to the Williamses.

Your cordial friend,

Charles S.

P.S. I hope you received the two packages of your manuscript which I sent in July, C.S.

ORCHID HERBARIUM OF OAKES AMES
BOTANICAL MUSEUM, HARVARD UNIVERSITY
OXFORD STREET, CAMBRIDGE 38, MASSACHUSETTS

July 25, 1956.

Dear Paul:

It was extremely kind of you to give me so much valuable information of which we shall be delighted to assimilate.

We plan to reach New Orleans by Eastern Air-lines on Aug. 1st about noon. Then after a night' rest, our intention is to go to Merida for two days, taking in Chichen-itza and Uxmal and reach Guatemala City on Aug. 4th staying at the Palace Hotel for a day and a half.

Since we are anticipating a real out-door vacation, I think it would be well for us to spend as much of our twenty days in Guatemala as possible in places like Antigua and Lake Atitlan and possibly Cobán (if that remote place proves feasible). I have heard that the motor trip thither is so dangerous as to be impracticable.

I should greatly enjoy a side trip to Honduras, but that extra excursion would seem to be a bit crowded, considering our plans. Moreover, I have not discussed this proposition with my friend.

We plan to stop for a day at Mexico City on the way home, as Harry Dunbar has never seen this place.

Recently I sent to you two packages - one containing your letters and papers and the other the several numbers of the Orch. Bull.

Please give my best regards to Dorothy and remember me to Louis and his wife. *Many thanks for your invitation.*

Yours hastily and cordially,

Charles S.

Charles Schweinfurth

ORCHID HERBARIUM OF OAKES AMES
BOTANICAL MUSEUM, HARVARD UNIVERSITY
OXFORD STREET, CAMBRIDGE 38, MASSACHUSETTS

July 6, 1956.

Dear Paul:

Due to some unexplainable cause, I have mislaid your careful notes concerning my possible trip to Guatemala including the Maya ruins in Yucatan.

Therefore, I ask if you will be so kind as to send me as soon as possible a repetition of your recommendations including the routes, time required for a restful trip (perhaps to include two weeks or so) and the approximate expense. Would a passport be required?

I am still uncertain about my summer plans, but I want to get some good pictures.

Thanking you for an early reply, I am

Your cordial friend.

Charles S.

Charles Schweinfurth

June 20, 1956

Dear Charles:

Here, at long last, is the check list that I promised to send you on the Orchids of the Golfo Dulce region. This has been taken from my file cards, and probably should be taken with a rather liberal grain of salt in some of the genera, since the names have been taken from several sources other than my own collections. I had some faint recollection, probably erroneous, that your *Epidendrum* might be isomermum, but my specimen which was so determined is in the limbo of mounting, and we have none other in our herbarium for comparison. In any event, this may be of some future use, in that it will give you as recent a list as I suppose exists anywhere of what various individuals have thought collections from the area represented.

Things run along quietly, but very pleasantly here since our return, and we have even been out on one or two collecting junkets, principally to see some magnificent colonies of *Lycaste aromatica*, now in full bloom on rocky cliffs near Tegucigalpa. We wish we could share our fine mango crop with you, in partial repayment for your many kindnesses during my recent stay in Cambridge. Remember that we are only four hours from Miami, and that we have plenty of room, and would be delighted to have you add Honduras to your experiences, in the event that you decide to visit Guatemala this year. Dorothy joins me in renewed thanks and best wishes,

Paul

August 25, 1955

Dear Charles:

We greatly appreciate being among those to receive your recent fine paper on Tropical American orchids, and we were of course particularly interested to note the two new species collected by Skutch in our old stamping grounds at Esquinas. The drawings by Mrs. Marsh are superb, as always.

Things run along quietly, but very pleasantly here, this being one of our nicest times of year. As you probably know, I am teaching second year English, and Tropical Crops, the last in Spanish, which keeps me busy on translations and mimeographing.

Dorothy has made a small start on illustrations of Honduran orchids, and has completed *Taelia Digbyana*, *Onocidium splendidum*, *Argophyllum alpinum* and *Maxillaria cucullata*, and is at present about half way on *Catasetum Russellianum*, a difficult but very charming subject. She joins me in very best wishes,

As ever,

Paul

BOTANICAL MUSEUM OF HARVARD UNIVERSITY

April 9, 1954.

*Oxford Street
Cambridge 38, Massachusetts*

Dear Paul:

Again I am indebted to you and Dorothy for a most welcome addition to our library. A combination of your interesting articles on the Orchids of Panama in the Orchid Journal was much to be desired. The habit and scenic photographs are wonderful and the drawings not only artistic but most revealing and helpful.

You are to be congratulated and envied in your fortunate combination of scientific and artistic achievements.

Cordially yours,

Charles Schweinfurth

Charles Schweinfurth.

BOTANICAL MUSEUM OF HARVARD UNIVERSITY

April 6, 1954.

Oxford Street
Cambridge 38, Massachusetts

Dear Paul:

Let me congratulate you for your interesting article on the pollination of *Gongora maculata*. These pollen studies of yours make a notable contribution to science. And Dorothy's contributing illustrations are most pleasing and artistic as well as graphic.

I am just now grappling with a moving job, not only for myself but for the Rhodoras presided over by Ted Hill which must be stored in the Museum.

With best wishes to you both and thanks for your thoughtfulness, I am

Your cordial friend,

Charles Schweinfurth



Digitized by Hunt Institute for Botanical Documentation

11 Boulder Rd., Wellesley Farms, Mass., March 11, 1954.

Dear Paul:

It gives me a thrill to know that sometime I shall have the pleasure of visiting you and Dorothy and seeing something of tropical vegetation and bird-life. Perhaps I can arrange to accompany one or two of the Audubon trips to the Everglades, all this D.V.

Just now I am in the throes of the Income Taxes, and I shall start to move very soon. The new quarters look wonderful and, judging from my measurements, will be quite adequate for my belongings in the most compact form.

Gordon Dillon gave me your message and told of spend-

ing a very pleasant and congenial time with you. As he truth-
fully says, people put a crimp in one's style.

With the best wishes for your success and happiness, and
that goes for Dorothy too, I am

Your old friend,

Charles Schweinfurth

BOTANICAL MUSEUM OF HARVARD UNIVERSITY

Feb. 3, 1954.

*Oxford Street
Cambridge 38, Massachusetts*

Dear Paul:

Your invitation sounds altogether delightful: I cannot tell you how alluring and tempting it seems. Although I now understand that the actual moving will not occur until next month, I do not seem able to make up my little mind to leave these precincts just at this time. Perhaps a little later I can be more definite.

Judging from the plans of my new quarters and my measurements, I believe that I shall have sufficient room, although I cannot be so certain about the required storage space.

With my best thanks and kind regards to Dorothy, I am

As ever cordially,

Charles S.

January 24, 1954

Dear Charles:

Since we have so recently gone through the ordeal of transferring our little selves and accumulated duffle to a new location, you may be sure that you have our most sincere sympathy on your move. Will you have adequate space in the new building? I have some recollection that the floor plans showed something that looked rather like an oversized broom closet.

Our new mansion has a spare bedroom, and we would be perfectly delighted if you could plan to spend a few days with us whenever you get tired of the snow & cold, or just fed up with things in general. We have about 1500 species of tropical plants on the grounds, including some very fine palms and many orchids, and the adjacent Everglades and Keys are filled with exotic birds such as the Roseate Spoonbill, American Egret etc. Just remember that you can leave all that smog & slush behind you and be basking in the sunshine in less than five hours flight time. Dorothy joins me in our most sincere regards.

As ever,

Paul

ORCHID HERBARIUM OF OAKES AMES
BOTANICAL MUSEUM, HARVARD UNIVERSITY
OXFORD STREET, CAMBRIDGE 38, MASSACHUSETTS

January 12, 1954.

Dear Paul:

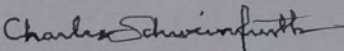
It was very thoughtful of you to send specimens of the interesting new *Maxillaria*, for which I am much obliged.

If I were a gentleman of leisure, I should like nothing better than to pay you and Dorothy a visit. To us northerners there is nothing so striking as tropical vegetation. As you remember, I am also captivated by bird-study, and I am looking forward to a chance to see the many novelties characteristic of Florida.

Until recently, we had enjoyed your balmy climate, but since Saturday we have been buried under continuous snows. In my youth I waxed enthusiastic about this white covering, but now that my only winter sport is skating, I do not appreciate it as one should enjoy all of God's creations. Moreover, I feel deprived of the continuous auto driving that gives one so much independence, not to say fresh air.

With thanks and all good wishes to you and yours, I am

Cordially yours,


Charles Schweinfurth.

P.S. You probably know that I am soon scheduled to move into the New Botany Building. You know what a delight moving is.

C.S.

BOTANICAL MUSEUM OF HARVARD UNIVERSITY

Sept. 14, 1953.

Oxford Street
Cambridge 38, Massachusetts

Alex D. Hawkes Esq.,
132 W. Union St.,
Pasadena, Calif.

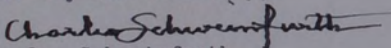
Dear Mr. Hawkes:

It seems to me that I should tell you that the drawing (Fig. 138) reproduced in the July-August number of The Orchid Journal does not represent *Pleurothallis eumecocaulon* Schltr., but another species, perhaps *P. ellipsophylla* L. Wms.

P. eumecocaulon has much narrower leaves, 1-flowered inflorescences and dissimilar lanceolate petals.

Let me compliment you on the interesting content of your journal.

Hastily and sincerely,


Charles Schweinfurth,

Research Fellow, Harvard University

ESQUINAS EXPERIMENT STATION
CIA. BANANERA de COSTA RICA
GOLFITO DIVISION

Palmar
November 19, 1952

Dear Charles:

Enclosed you will find a copy of CEIBA, with the description and illustration of Masdevallia borucana, as well as some general remarks regarding it's relationships, which did not reach Honduras in time to be included with the other material. Masdevallia is actually too technical a genus for me to tackle, but this was such an outstanding thing that I hated to pass it up. I have one plant of it in cultivation, and it stays in flower for a long time, one scape following another at short intervals.

As you probably know, we expect to be transferred to Honduras in 1953, probably at about the end of the dry season, in April or May. In consequence we are working hard on local collections of plants, in the hope of at least being able to finish up our manual of the trees. I had thought of doing a flora as well, but I doubt if the relatively limited area justifies anything more than a check list by families, with keys. Even so some 2000 species will be involved, and another 600 or so if I decide to include cultivated material! Since I have no help, it is quite a chore.

Your remarks re the "revision" of Cyanoche are very charitable. It is no magnum opus, but it seemed to offer an excuse to publish photographs of some of the rare hermaphroditic forms. Unfortunately the reproduction of some of these leaves a good deal to be desired, but the damage is done now. My present understanding with Alex Hawkes is that he will send me a few reprints when it has all been printed, and I will see that you receive a copy. So far all I have seen

in print is the introductory portion and the key. The descriptions of the species and varieties and their illustrations are still to follow. I hope the Journal doesn't fold up before it is done! I will say that Alex manages to get a tremendous amount of material into each issue, and that most of it is much more to my taste than the eternal harpings on commercial species in the Bulletin. The American public is famous for rushing from novelty to novelty, and it wouldn't surprise me too much if Hawkes one man crusade might turn the tide, temporarily at least, to a more intelligent interest in orchids. I hope so anyway.

We can well suppose that you must have been delighted with the results of the recent election. We hoped that Eisenhower would get it, but I doubted if it would be possible to dislodge so many who have their feet in the Federal feed trough. For the first time in a good many years one can again feel proud to be an American citizen.

We hope that this finds you well. Please give our best regards to Louie and Ted, and to Gordon, if his exalted duties ever bring him down your way.

As ever,



Nov. 13, 1952.

Dear Paul:

It was a most pleasant event when I had a chance to meet you at Don Correll's last June, but I see by my files that I have not received any of your brilliant and welcome letters since September 1951.

I have enjoyed reading your valuable treatise on *Catasetum* in successive numbers of "The Orchid Journal", and I am wondering if you will do me the favor to send a copy of this article so that I may insert it in the Herbarium. I feel that we should be the repository of all notable taxonomic papers.

While I am in the begging mood, I should like to ask also for a separate of your new Costa Rican *Masdevallia borucana* also to embellish the Herbarium. Please congratulate Dorothy on her excellent and artistic work which has been steadily improving if that were possible.

With best wishes for a happy and successful season to you both

I am

Your old friend,

A handwritten signature in cursive script that reads 'Charles Schweinfurth'.

Charles Schweinfurth.

ESQUINAS EXPERIMENT STATION
CIA. BANANERA de COSTA RICA
GOLFITO DIVISION

Palmar
September 28, 1951

Dear Charles:

My records show that I wrote to you on the 18th, and the package containing the manuscript reached me here yesterday, which should establish a record of some sort. Many thanks. I had not intended for you to bother with the wrapping yourself, but it is all the more appreciated since you did. Just what do all those secretaries in Gordon's office do??

I appreciate Gordon's 11th hour interest in the photographs, but things have reached such a pass here that I simply didn't know what else to do. As I may have explained, in part in my last letter, I left this with Gordon in November, 1950, for his consideration. He wasn't very enthusiastic about it at the time, and subsequent issues of the Bulletin have not led one to believe that anything of a scientific nature will ever be allowed to appear on their pages again. Gordon told me, for example, that at least one of his commercial sponsors found my Coryanthes pictures "extremely repulsive". Of course none of 'em have any plants of wild species for sale, so I guess that's that.

Be all of the above as it may, I had no other plans for the manuscript, at the time, and only rather vaguely hoped to get 300 reprints to bind together with a set of 300 of Dorothy's drawings which we have had stored in a friend's basement in San Jose ever since we first came to Costa Rica. Those illustrations cost me some \$500.00, between cuts, paper, freight etc. and I naturally hope to use them. In March of this year we had notice served us that our friends planned to vacate their house, and that we would have to move our crate more or less at once. It is a heavy thing, weighing over two hundred pounds, and the wood is not in the best of condition. I simply hated the thought of having to get a new crate or crates, and haul the whole lot down here to Palmar by air express, only to have to take it all back at a later time for incidental printing and binding into pamphlet form in San Jose. Sooo, on the firm supposition that Gordon didn't have much interest in the thing anyway, I wrote him (in March) asking him to send the Mes, with the view of using short selected portions for printing here, to get the job done, once and for all. As I previously have indicated, I finally wrote three times, over a period of about 90 days, with absolutely NO REPLY. I finally decided to try Ted Hill, since I knew he passed Gordon's office every day. No reply from Ted either. By the time I decided to annoy you, I had been forced to move the box into the abandoned garage of another friend in San Jose, where they are exposed to quite a bit of damp, and to the threat of almost momentary expulsion. Frankly, now, I don't know why I was ever foolish enough to sink anything resembling \$500. into the project, but that isn't the point now. I feel that I have to salvage it as best I can. Now that you have been kind enough to forward the Mes, I am in a position to do something constructive toward solving the problem. ~~Kick~~ Allow me again Sir, to extend my most heartfelt thanks!

A few days ago I received a note from Alex Hawkes, indicating that he is to edit a new Orchid Journal for the University of California. I am consumed with curiosity to see if it will contain anything on classic orchidology, or if it is simply to be another un-official organ for the commercial growers.

Your good letter, and most recent fascicle of the Orchids of Peru have just come to hand. This last is, as always, a beautiful piece of work, and one of which you may be justly proud. It must give you a great sense of satisfaction to have been able to contribute such a fine thing of lasting interest. I was particularly intrigued by the three new species of Lepanthes. It is a fascinating genus, and one that more than makes up for its lack of size. I would be tremendously interested to know what insect pollinates some of these intricate things, and what use is made of the unique structures. Please tell Mrs. Marsh how much we both enjoy her fine drawings. I hope Dorothy can meet her some day.

Present indications are that we will be in the United States sometime next spring, and we hope to be able to spend a few days in Cambridge. Just now it seems like a long time off, but I suppose it will be here before we know it.

Dorothy joins me in our most sincere regards,

As ever,

ESQUINAS EXPERIMENT STATION

C.I.A. BANANERA de COSTA RICA

GOLFITO DIVISION

Palmar
September 18, 1951

Dear Charles:

When I was last in Cambridge, I left a short squib on Telipogon Andresianum, together with a drawing of the species with Gordon for possible use in the Bulletin. At the same time I also left a fairly extensive manuscript on the geographical distribution and relationships of the Panama orchids, with many photographic enlargements of typical species and representative areas of countryside. My understanding with him was that if he found either unsuitable, I would try to place them elsewhere.

Due to unexpected developments here it became quite urgent that I have the Panama mss and pictures returned to me, and I have written Gordon three times since March, asking him to either use the material or send it back. To date I have not had a reply. In late May I decided to ask Ted Hill to prod Gordon's elbow, and wrote him. No reply from Ted either.

I suppose that Gordon is just busy, but I should think that one of those three secretaries should be able to keep up with routine correspondence. Now me, I type my own letters, but maybe I'm not the Executive type. Time & events have continued to move along, as they will, and by now I am at my wits end to know what to do about this material, since I have definite possibilities for their use. Unfortunately Gordon has the originals, and there are no copies.

While I fully realize that you are busy too, could I ask you for old times sake to dynamite this material out of Gordon's office by fair means or foul, & have it packed up by one of the local photographic shops & returned to me by registered air mail. I am taking the liberty of enclosing my check for \$5.00, to cover mailing costs. If it proves to be more, please let me know.

Several days ago I received the list of determinations of Costarican orchids that you so kindly supplied for Dr. Norton, on specimens sent to the Smithsonian. Many thanks. I have a copy of Don Correll's "Orchids of North America" and think it is about the finest thing of its sort that I have ever seen. If it were mine I should be very proud of it.

Things run along here about as usual. We have both recently spent a little time in the Canal Zone, where I managed to get nearly 90 species of plants (a whole carload) new to our collection at Esquinas. We now have about 500 species established, and I feel we are becoming almost respectable. I was particularly glad to get 15 species of bamboos which we did not have, bringing our bamboo collection to over thirty different kinds. Some have canes nearly a foot in diameter, and a hundred feet tall. It gives one an entirely new concept of the possibilities of the grasses.

I had expected to be in Honduras and Nicaragua this month, and got as far as San Jose on my way, but was unable to get visas for either country due to the yellow fever scare. I suppose things will clear up in a couple of weeks, but by then we will be into the heavy fall rains. I had hoped to get collections of the fine oaks on the lower slopes of Cerro Santa Barbara, the highest mountain in Honduras. I managed to get on to the top during this past April, and made herbarium specimens of the unique stand of conifers, including gigantic things like Cupressus Lindleyi, Abies matucalensis, Pinus pseudo-strobus, Pinus arachahuite and Taxus plobosus. Not many orchids, but we did find

Lycaeus virginalis, Isocichus linearis, Odonotrossus Rossii and Arpophyllum alpinum in flower, and the most plants I have ever seen of Chrysis aurea.

I brought back a few plants of this last, which obliged by flowering in Palmar. Enclosed you will find a duplicate slide. We seem to have only the var. maculata in Costa Rica, as we did also in Panama.

Dorothy joins me in our best. We hope to get to the States sometime next spring, if all goes well.

Dear Darwin:

Most sincere regards,

I have been thinking of you a great deal lately, and wondering how you are getting on. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you. I have been thinking of you a great deal lately, and wondering how you are getting on. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you.

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Sept. 15, 1951.

Dear Paul:

Prompted by your letter received yesterday, I hastened to secure the article on Panamanian orchids from Gordon who seemed rather crestfallen. He gave as an excuse that he was intending to use the article, but had not had the time to organize it for publication. He especially liked the pictures.

Yesterday afternoon I wrapped up the article and sent it by registered air mail, as you suggested. With regard to the postage, the cost was about three dollars, so I am sending my check for the difference from your check for which I thank you.

I am glad that you like Don Correll's book. It represents a huge amount of work and is a very creditable piece of work. As in every case, the illustrations are the best part, as far as the amateur is concerned.

Congratulations on your extensive work on collecting and establishing such an impressive aggregation of species in your region.

Many thanks for your nice picture of Chysis.

I have a receipt for the manuscript, so I should be glad to hear of its safe ^{arrival} ~~receipt~~. Gordon says that he plans to use the Telipogon article.

With best wishes to you and your better half, I am

Your old friend,

Charles Schuieinfurth



June 27, 1950.

Mr. Paul Allen,
Esquinas Experiment Station,
CIA. Bananera de Costa Rica, Palmar Sur, Costa Rica.

Dear Paul:

It is always a welcome occurrence to get one of your good letters and I must hasten to answer it adequately, if briefly.

With regard to the orchids, which you kindly offered to procure for the Greenhouse under the efficient care of Mr. Wharton, I made that gentleman a visit yesterday. He said that he had recently acquired a number of his especial desiderata recently, but would welcome a number of Cattleyas, especially *C. Dowiana* var. *Aurea*, *C. Skinneri*, *C. gigas*, *C. Gaskelliana*, or *C. Percivaliana*. Perhaps these species are out of your region.

Your package of specimens, of which you notified me, has not yet arrived. When it does, it will receive safe keeping.

Most of my time recently, not given to routine duties, has been spent in "breaking in" a new artist. She is very earnest and a good draughtsman, although she knows nothing about the technical side of botany. She is busily occupied with delineating my new Peruvian species which I must publish before citing them in my "Flora".

I shall look forward with real pleasure to seeing you and Dorothy at your convenience. Meanwhile you have my heartiest wishes for a prosperous season.

Your old friend,

Charles S.

ESQUINAS EXPERIMENT STATION
CIA. BANANERA de COSTA RICA
Palmar Sur, Costa Rica

June 15, 1950

Mr. Charles Schweinfurth
Ames Orchid Herbarium
Botanical Museum of Harvard University
Cambridge, Mass.

Dear Charles:

It seems like a very long time since I received the autographed copy of your excellent last contribution to the Botanical Museum Leaflets, and only the pressure of local urgent business has prevented an earlier reply. First let me say that the descriptions and illustrations come up to your usual high standard, and that I'm delighted to be able to add this to my slender stock of authoritative literature. Many thanks.

I have looked through my files to see if I have received anything from you regarding the Orchid species you would like to import for your greenhouses. I don't seem to find anything, but that may simply mean that it has become misplaced somewhere. When you have a spare moment will you jot down more or less how many plants you want, and more or less also the sort of thing you would like to receive, and I'll try to get them for you. I have your permit tag with me here.

By today's mail I am sending you a slender packet of some ten orchid specimens for safekeeping. I realize that this will find you packing for your summer in Europe, but I feel that I would rather have my specimens there with

you than elsewhere, even though I know you don't have the time to work on them just now. By the way, how goes your Magnum Opus on the Orchids of Peru? We are all looking forward to it with a great deal of interest. I learned indirectly the other day that Correll's "Orchids of the Continental U.S." was out, with illustrations by Mrs. Ames and Gordon. I've sent for a copy and hope it doesn't disappear in our local mails. Just by the way, what became of his Orchids of Guatemala? Someone told me that the Field Museum had suspended publication on the Flora of Guatemala for lack of funds. I hope the Orchids got out first.

We will be interested in hearing of your experiences in Europe when we next see you, and in seeing a series of your excellent Kodachromes from some of the historic places you visit. Quite a number of our friends plan to be in Sweden this summer, and I wish we could afford to go. Maybe another year, if we stay with the Fruit Co. and can talk them out of passage on one of their boats.

Anyway we hope you will have a grand summer, wherever you go. Dorothy joins me in our very best to your good self and to Ted Hill, and Louie and Gordon, and all the rest of the Museum gang.

As ever,

ESQUINAS EXPERIMENT STATION
C/A. BANANERA de COSTA RICA
PALMAR SUR, COSTA RICA

December 12, 1949

Dear Charles:

We now have received two of your good letters, and only the pressure of travel and urgent affairs have prevented an earlier reply. I don't want you to feel that I'm trying to snow you under with Orchid specimens, since such certainly is not my intention. I realize fully that you have a very full program there of your own, and I think we all agree that above all else you should complete your Orchids of Peru. (Among other reasons, I would like to have a copy!) What it boils down to is that I think my orchid specimens are best off in your hands, and IF you have time to look at 'em, very fine, if not, I'll try to come your way on one of my junkets Statesward & work 'em up my little self. Matter of fact, I have another twenty-odd numbers dried & ready with me here, that I'll probably bring up with me when we come your way.

Our present plans are to sail from Puerto Armuelles, in adjacent Panama, on December 18, to be in New York for the AAAS meetings. Do you plan to attend? After the meetings we hope to pay you a visit, and then move on to Washington, Chicago, St. Louis, New Orleans, Havana, Merida, Guatemala City, Tegucigalpa, San Jose & Palmar Sur. (Did I miss anyplace?) I want to go to Mexico, but Dottie sez that by the time we reach New Orleans we'll be so dead broke we won't be able to tip the deck steward on the Fruit Co. boat, much less go to Mexico. I've had the itch ever since hearing your account of your wonderful vacation. Remember, we're looking forward to seeing your Kodachromes.

Dooty joins me in our very best wishes to yourself and our other Museum friends for a very merry Christmas and a happy & prosperous New Year.

Most sincerely yours,

Paul



November 29, 1949.

Dear Paul:

It is over a month ago since I had the pleasure of receiving your last brilliant letter and more recently your very interesting sending of the treasures from a single Ceiba tree. Thank you very much for both.

As you doubtless know, I should like nothing better, unless it be to do the "outer edge" backward or to eat vanilla ice cream garnished with chocolate sauce with you and Dorothy at the Petit Courmet, than to take the time and run through your sending at a running jump. But there seems to be plenty of routine work to delay that delectable pastime until I have the delight of welcoming you and Dorothy early next year.

I treasure the hope that I may be able to concentrate on my Peruvian "magnum opus" before very long, although I have agreed to write the chapter on orchid taxonomy for the comprehensive orchid book soon to be edited and partially written by Dr. Carl Withner.

Howard is just completing the printing of another bit of "tripe" from my pen that includes two new Panamanian Epidendrums of your collecting. I shall send you a copy as soon as possible.

With best wishes to you both for a prosperous season and happy Christmas, I am

Your cordial friend,

Charles Schuimferts

ESQUINAS EXPERIMENT STATION
CIA. BANANERA de COSTA RICA
PALMAR SUR, COSTA RICA

October 24, 1949

Mr. Gordon W. Dillon, Editor
American Orchid Society Bulletin
Botanical Museum of Harvard University
Cambridge, Mass.

Dear Gordon:

Do you know of anyone in or near the Museum who would be willing to photograph some orchid plates for me? I am willing to pay \$5.00 each for a negative, any size, providing it is at least $2\frac{1}{4} \times 3\frac{1}{4}$ or larger, and a 5 x 7 glossy print of the following species:

Cycnoches ventricosum ----- t.5, Bateman's Orch. Mex. & Guat.

Cycnoches Lehmanni ----- Probably either in Warner & Wms.
or the Lindenia

Cycnoches maculatum ----- I think this is in Lindley's Serp.
Orch.

On the off chance that you may be able to find someone willing to take these, I'm enclosing my check, to cover, including an extra \$2.50 for return registered air mail to me here. If you can't locate anyone, or don't have the time to bother with it, just tear the check up & let me have a note that you've done so, so's I can keep my accounts straight.

Dottie joins me in our best to yourself & family.

ESQUINAS EXPERIMENT STATION
CIA. BANANERA de COSTA RICA
PALMAR SUR, COSTA RICA

October 12, 1949

Mr. Charles Schweinfurth
Research Associate
Ames Orchid Herbarium
Botanical Museum of Harvard University
Cambridge, Mass.

Dear Charles:

Today is Columbus Day, or, as they call it in these parts "Dia de la Raza", on which all good Spaniards (which includes the ultimate in the recognizable and unrecognizable mixtures and dilutions of that once proud race) make holiday, and illogically celebrate the historic accident that resulted in the ruin of their own nation, and the permanent degradation of the southern half of the new world. Be that as it may, it provides me in the year of Grace 1949 with a free moment to visit with you, so perhaps I should doff my cap to old Don Cristobal, instead of attempting this belated post-mortem on the out-sized fly in the ointment of his achievement.

As I believe I may have written you at an earlier date, we had a literal windfall near the Station grounds recently, in the overthrow of a gigantic Ceiba, which carried about a representative ton of the local epiphytic orchids in its crown. I'm sending you a packet of those found in flower by today's mail, and hope you find some of them of interest. As the world's foremost Maxillariologist, you might find No. 5334 a bit on the exceptional side. I don't think I have ever seen such a tiny species. I have not been able to trace No. 5323 either, which is particularly handsome for the genus. I will be interested to hear your opinion on any, or all of them when you find the time.

Dorothy joins me in our best,

As ever,

ORCHIDS of COSTA RICA

Vicinity of the Rio Esquinas, Golfo Dulce area. Sea Level. Sept. 30, 1949

- 5323 - Maxillaria sp. - Sepals and petals pure white. Lip butter yellow. Slight fragrance of Narcissus. Flowers last about 3 days, but are fully open only on the first day. Allied to M. Camaridii, but apparently amply distinct. Very common. (7)
- 5324 - Maxillaria oreocharis Schltr. - Epiphytic. Sepals red on outer surfaces, pink on the inner surfaces. Petals pale yellow. Lateral lobes and basal 2/3 of lip red, the apical lobe pale yellow. Common. (4)
- 5325 - Epidendrum pygmaeum Hook. - Epiphytic. Forms dense colonies in the tops & sides of large trees. Sepals and petals pale green. Lip white, with a lavender terminal apicule. Very common. (7)
- 5326 - Maxillaria uncata Lindl. - Epiphytic. Flowers translucent pale pink, striped lavender. Very common. (4)
- 5327 - Eleanthus capitatus (P. & E.) Rehb. f. - Epiphytic. Forming clumps in the tops of large trees. Flowers purple, surrounded by a clear, viscid substance. Common.
- 5328 - Maxillaria variabilis Batem. ex Lindl. - Epiphytic, often forming dense colonies in the tops of trees. Flowers resin purple. Very common. This almost black-flowered form seems to be the only one in this area.
- 5330 - Sobralia sp. - Epiphytic, forming large clumps in the tops of trees. The canes average about 3 ft. in length. The flowers last but one day, about half of the mature canes flowering on a given day, and the others about three days later. Flowers not fragrant. Sepals rose purple. Petals lilac. Lip conspicuously bilobed, with the expanded frontal lobes conspicuously ruffled and phlox purple, followed inward by a nearly white band, the inner lip near magenta. Column pure white, very small for the genus and in relation to the size of the flower. See photograph. Near S. magrantha but differing in the narrower leaves, the one day duration of the flowers, the epiphytic habit etc. (10)
- 5331 - Pleurothallis sp. - Flowers heavily blotched purple. (1)
- 5332 - Lepanthes sp. - Epiphytic. Leaves coppery red, possibly due to unaccustomed exposure to sun. Sepals reddish tan. Petals blotched blood red & yellow. Lip blood red. (1)
- 5333 - Pleurothallis sp. - Flowers clear yellow. (1)
- 5334 - Maxillaria sp. - Sepals & petals pure white. Lip yellow. This is about the smallest Maxillaria species I have ever seen. (2)
- 5335 - Scaphyglottis sp. - Epiphytic. Flowers dingy white. (4)
- 5336 - Epidendrum sp. - Foliage reddish green, possibly due to exposure to sun. Flowers greenish tan. Plants pendulous. (2)
- 5337 - Epidendrum sp. - Sepals and petals dull greenish brown. Lip green. (4)



Oct. 10, 1949.

Mr. Paul Allen,
Esquinas Experiment Station,
Palmar Sur, Costa Rica.

Dear Paul:

Your lengthy letter, with the many stamps enclosed as a thoughtful gift, I had filed away in my correspondence drawer at home for early attention, so besides sending my hearty thanks for the remembrance, I may not do it justice. Lately, however, I have received two more of your interesting effusions which seem to require an immediate reply. So here goes.

Your inquiry regarding Christmas cards does not state just what you require. Louis Bierweiler says that if it is only a question of printing your name on the cards, Howard would do it upstairs. If it is a matter of engraving a plate, of course you will need the Folsom Engraving Co., 212 Summer Street, Boston 10, Mass., attention Mr. Sprague. If I can be of further assistance in this matter, please call on me.

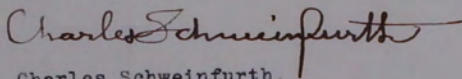
Now as to your letter of October 4th, just received. Yes, last May I agreed to determine a lot of 48 orchids for Dr. Woodson consisting of your collections both from Honduras and from Panama (the genera of the earlier parts of the Panama flora). This job I did, finding therein two new Epidendrums (Nos. 3780 and 3784, both from Cerro Pajita), the latter a unicate which Dr. Woodson agreed to let us keep. Together with four miscellaneous species, I am planning to publish these very soon, with excellent illustrations done by a newly acquired artist.

Thank you for the package of additional Panama species which has just arrived. Among the listed numbers, I found nine collections determined in the collection sent to me last spring.

Of course, I am theoretically glad to name any orchids, especially from so esteemed a friend as you. However, I am cherishing a fond hope of being able very soon to concentrate on my everlasting flora of Peru and incorporating the loose ends and finishing up the work before I "pass out". This means that I must get busy and delay for a time the miscellaneous identifications. There is a limit to what one "namer" can name, especially when much time is consumed by proof-reading and various "Latinizing" jobs.

You are not looking forward to your return here half so much as we. So, meanwhile be as good as a botanist can be, and I shall try to do the same.

With kind regards to Dorothy, I am your warm friend,



Charles Schweinfurth,

Research Fellow in Botany, Harvard University.

ESQUINAS EXPERIMENT STATION
CIA. BANANERA de COSTA RICA
PALMAR SUR, COSTA RICA

October 4, 1949

Mr. Charles Schweinfurth, Research Associate
Ames Orchid Herbarium
Botanical Museum of Harvard University
Cambridge, Mass.

Dear Charles:

Now stop me at once if I'm wrong, but it seems to me that a little bird told me some six months or more ago that Dr. Woodson had, or was going to send you the remaining lot of Orchids from Panama, collected during my last two years there, but belonging to genera which had already appeared in Lou Williams portion of the manuscript. Have you ever received any such specimens? If so, and if you've been working 'em up, you have undoubtedly discovered that there are a number of species missing, or at least the dried specimen is missing, although in some cases you will have pickled flowers in that lot I left up on top of the herbarium cabinets.

Well, whether you HAVE received the specimens from Woodson, or not, and whether you ARE working them up, or not, I feel moved today to one of my rare remnants of acquired New England conscience, and after some dredging, have discovered that I have with me here some 79 numbers of Panama Orchids, almost all of 'em unidentified, nearly all undetermined, and all from genera in Lou Williams part of the Flora. I'm packing the lot off to you by todays mail, since whether you are engaged in working up that list of addenda or no, the specimens would be - 1. better off in your hands - & - 2. better off in the same place with their accompanying pickled flowers.

As you will see, the enclosed list of field notes is in numerical order, as are also the dried specimens. As I remember it, I left the batch of pickle bottles on top of the herbarium cases also in numerical order, so it shouldn't be too hard to correlate one twith tother. If you're already up to your eyes in other work, just put 'em aside until you have the time, or until I can get my little self up there (oh would that I could).

Anyway, I hope, if you have time to look at 'em, that there may be something of interest there, and that they won't all be TOO easy, even for your eagle eye. I think there is one or another little *Stelis* & *Lepanthes*, if the others are finished up the first day off.

We are already counting the days until we'll again be in Boston, since we expect to come up in January or February of next year. You are hereby invited to be our guest, first night, to go to the oft-remembered Petite Goumet, and I suppose we'll wade through the snow again, just like old times.

Dorothy joins me in our best to yourself and the rest.

As ever,

ESQUINAS EXPERIMENT STATION
CIA. BANANERA de COSTA RICA
PALMAR SUR, COSTA RICA

October 1, 1949

Mr. Charles Schweinfurth
Botanical Museum of Harvard University
Cambridge, Mass.

Dear Charles:

It was with something of a shock that I realized today that Christmas is less than three months away, and that if we're going to do anything about Christmas Cards, we're going to have to be up & about it.

Our local engravers are absolutely impossible, and I have very pleasant memories of the good work and friendly cooperation that I got from the people in Boston with whom you deal. Unfortunately I seem to have lost or misslaid their name and address. When you write again, would you be so kind as to give me the name of the firm, their location, and the name of the man who takes care of your own work.

Our area here isn't usually very productive of interesting Orchids, about 80% of the Orchidaceous flora consisting of Trigonidium Egertonianum and Maxillaria maleolens, but a few days past I had a real windfall when a giant Ceiba tree was felled near the Station grounds. This was filled with dozens of huge clumps of an exceedingly handsome Sobralia which is unknown to me, and a very fine Maxillaria which is allied to M. inaudita, but amply distinct, and possibly new. I will send you specimens in the near future.

Dorothy joins me in our warmest regards to yourself and our other Museum friends.

As ever,

ESQUINAS EXPERIMENT STATION

C.A. BARRERA de COSTA RICA

PANAMA, PANAMA, COSTA RICA

September 19, 1949

Dear Charles Schweinfurth,
Botanical Institute of Harvard University
Cambridge, Mass.

Dear Charles: I have your letter of August 15, 1949, and I am very glad to hear from you.

Your letter has just come to hand, which very forcibly reminds me that I am already in your debt for the last one. I am afraid I have become a very bad correspondent, and can only offer in excuse that we have been in Panama in the interval, made two trips to San Jose, and one to Quepos, and undergone a full fledged general strike of our plantation laborers; all of which events have tended to distract our little minds.

Thank you for your very kind and generous comments on my portion of the Orchids of Panama. Only yet yourself know how much I am indebted to you for the solving of many of the thorny problems which beset my way during the progress of the manuscript. I wish I could have had as sympathetic, accurate and interested help on the seeing of the thing through press, since some of the sections were edited almost beyond recognition, with whole blocks of paragraphs deleted, or worse, transferred to appear under other genera; and major, and utterly stupid changes made in my keys. I painstakingly corrected all of these, after seeing the galley proof, but the changes were largely ignored, and many unfortunate errors perpetuated in print. I frankly haven't had the heart now to dig them all out, since even an errata sheet only partly makes amends for the blunders. For example, in the key to Massia (p. 503) the section as should read "Plants with conspicuous peg-like bulbs." I shudder to think how many more such there may be. I would consider it a very great personal favor if you would make a note of any such outstanding bulls that come to your attention, and I will try to get the Garden to print an errata sheet, probably to accompany your list of additional species which have come to light since Lou Williams section of the Orchids was completed.

In regard to this last project, I think it may be possible that I have with me here some of the unicates of Orchids collected in my last year or so in Panama. I haven't unpacked my herbarium, due to the exceedingly high humidity, but I will try to check within the next day or two and if I have any specimens which should be in your hands, I will send them along.

Our trip to Panama was mostly for the purpose of bringing back some 10,000 seeds of a particularly fine Indo-Chinese race of Mangos, and to get as many other desirable ornamentals and fruit trees as possible. The junket was an unqualified success, and we returned with some fine prizes, making in all a full freight car of plants. Among other interesting things seen on the trip was a very interesting new Cyanoche, flowering in the collection of Harry Dunn, in Ancon. It is most nearly related to C. Haegi from Brazil, and quite unlike anything we have in Central America. I was certainly astonished to see it.

We are at present enjoying a fine group of plants of Epidendrum Lindleyanum, purchased in the market in San Jose. I am always amazed at the range of variation possible in some of these things. Some of the plants have flowers nearly twice as large as some of the others, and with the increase of size, there is often an accompanying deviation in the shape of the lip, and degree of development of the column wings, as well, of course as color. Then again, it was interesting to watch individual flowers increase in size, from day to day, as they matured, and to watch also the universal darkening of the colors. I would estimate that all of the flowers

Digitized by Google



Sept. 15, 1949.

Paul H. Allen Esq.,
Esquinas Experiment Station,
CIA Bananera de Costa Rica,
Palmar Sur, Costa Rica.

Dear Paul:

On my recent return from my holiday, I was pleased to find your concluding part of *The Orchids of Panama*. It is a noble piece of work - very painstaking and with a wealth of information, such as careful student of the American orchid flora and one happily conversant with the collecting in those regions only could produce. Dorothy's illustrations are a most valuable addition. Many thanks for this gift. The many reductions to synonymy are most interesting and important, thus making it a necessary item to catalogue.

This summer I took an extended western trip with my old college classmate, Harry Dunbar, on this occasion to Yellowstone Park ostensibly to take the great variety of Kodachromes which that region, together with the Tetons, affords. I am fairly well pleased with the results.

Now I am engaged in picking up the many loose ends.

Please give my best regards to Dorothy, and believe me

Your appreciative and admiring friend,

Charles Schweinfurth

Charles Schweinfurth,

Research Fellow in Botany, Harvard University

P.S. I think I answered your last very entertaining letter.

C.S.

CHARLES SCHWEINFURTH
11 BOULDER ROAD
WELLESLEY FARMS, MASS.

July 17, 1949.

Dear Paul:

You are one of my two friends who writes a brilliant letter and one which is deeply appreciated by me as well as by our fellow workers. I only wonder that in your hectic existence you can find the time to write at such length and with such interesting detail. First let me thank you heartily for your contribution to the Panama Orchids. You did a beautiful, thorough and conscientious piece of work, and Dorothy's illustrations add immensely to its value. I cannot see how it could be improved.

I was thankful also to get your gift of stamps which will make a good addition to my accumulation awaiting my old-age activity.

With the beginning of June we have had a most discouraging & prolonged drought and it was only by being lavish with the watering that we were able to keep the place presentable.

P.S. The Hill is at his summer place on the Maine coast until fall, Louis B. will soon join his family at his cottage at Mattapoisett, Mass. and Gordon D. is having his usual winter life with the A.O.S. and David. C.S.

Then, too, it has been very hot and "muggy" my particular dislike now, so that I shall be glad very soon to take my usual vacation - this time to Yellowstone Park to take pictures and get as near to nature's heart as possible with existing conventions.

You may have heard the sad news of Mr. Weatherly's death last month. He was one of the few conservative taxonomists left and one of the finest of gentlemen. His death was hastened by pressure of work on the recommendations for the next Botanical Congress at Stockholm next summer, together with the heat.

By the way I have enrolled for this meeting next July and shall take pleasure in seeing Scandinavia.

Since Richard Schultes is here now - until next January - I have taken the chance of picking up a little Spanish, but I am not yet ready to write in Spanish.

Please give my best regards to Dorothy and believe me

Your cordial friend,

Charles D.

P.S. Among the Panama orchids (treated by the earlier fascicles) were two new Epidendrum from Coclé.

Esquinas Experiment Station
Cia. Bananera de Costa Rica
Palmar Sur, Costa Rica

May 19, 1949

Dear Charles:

I hope you will be able to forgive the very long delay in answering your last good letter, and in acknowledging the excellent account of your trip to Mexico. Both Dorothy and I think this last is one of the best short travelogues that we have seen in print, and I'm sure that anyone who read it wanted to see Mexico for themselves. You should go into the Tourist Tour promotion business on the side!

Enclosed you will find a copy of the third fascicle of the Orchids of Panama, which I hope you will not consider a complete disgrace to the Orchid Herbarium. It is not exactly as written, but since I have cooled off a bit, I really doubt if the rather considerable cutting done in the process of editing did as much damage as I thought at the time. I hope at least that what is left is reasonably accurate, since I have a perfect horror of contributing anything to the considerable body of error already in print. I have just finished checking proof on the fourth and last fascicle, which should appear next month. I was sorry to see that our new genus *Oakes-Amesia* was not illustrated. Miss Horner wrote me that she had contacted Gordon twice about it, but I suppose he was busy with his many new duties.

There is not any real news to tell here. After a long, hard, windy dry season, it has again begun to rain, and things have greened up wonderfully. We are enjoying spring (!) bulbs in the form of *Kaempferia rotunda*, *Polygonatum tuberosum* and *Spathoglottis carinata*, and have very beautiful green about town in full flower, particularly *Cassia fistula* and *nodosa*, *Lagerstroemia filio-regina*, *Brownea macrophylla*, *Spathodea campanulata*, etc. To show how fast things grow here, we put in a small block of about 500 Papaya trees at the Station about three months ago, planting out seedlings about twelve inches tall. When I looked at them yesterday they were all over ten feet tall, and over half of them are bearing green fruits.

Work on the experimental timber wood plots goes very slowly, but we do have blocks of about ten different species in, totaling about fifty acres. Our main problem is supply, things ordered from the United States taking from six months to a year to reach us. However, in spite of it all, we should have our program very nearly done in another year to year and a half, and then we can perhaps begin to think of other things. I now have a little time for botanical collecting, and have picked up a number of interesting things, but find that the region is poor in orchids. The only real find to date was made by Dorothy who managed to locate three plants of *Notylia Cordesii* on a fallen tree trunk.

Enclosed you will find our accumulation of stamps to date. It isn't nearly as much fun as it would be if we could step down to your desk and give them to you, as we did in the good old days, but we hope you may find something worth while among them. Dorothy joins me in our most sincere regards to yourself and to the rest of our good friends at the Museum.

As ever,

BOTANICAL MUSEUM OF HARVARD UNIVERSITY

May 9, 1949.

Oxford Street
Cambridge, Massachusetts

Dear Dr. Woodson:

In reply to your letter recently received, let me say that I shall be glad to name the small collection of Panama orchids which you mention.

In the cursory glance that I have had the time to examine Paul Allen's first part of the Panamanian orchids, I was much pleased with his effort. The illustrations are good, his keys clear and painstaking, and he has combined his knowledge of field conditions with his unvarying care and accuracy. We shall be glad to see the finished product.

With best wishes, I am

Hastily and sincerely,

Charles Schweinfurth
Charles Schweinfurth,

Research Fellow in Botany, Harvard University

Compliments of C.S. (and R&W).
Incidentally, I finally discovered
that Linn's *Squarella* = *Duraurea* sp.
Too bad we don't have flowers. R&W

CHARLES SCHWEINFURTH
11 BOULDER ROAD
WELLESLEY FARMS, MASS.

Feb. 28, 1949.

Dear Paul:

The arrival of your last letter - of Feb. 12 - was almost epoch making in literary annals. At least I appreciated it more than any letter I have ever received. For in the first place it was so vivid and full of life that I could almost see your lithe form and hear your impassioned words. Then, too, it precisely echoes my own viewpoints, not only about Gordon, but even more feelingly about our "Economic Prospects". Of course, I showed it to Louis and Ted Hill and have felt strongly tempted to show it to Gordon, and everyone who has seen it has been highly edified.

From the urgency of economic pressure alone, I can understand Gordon's policy of "bulletinizing", for of course that editorial work furnishes his daily bread. But I thoroughly agree with you in deploring his situation. He has now two regular secretaries working for him, and sometimes another girl and two boys for rush periods. To be sure, his Bulletins are really masterpieces of information and entertainment, but they evolve at the cost of practically all scientific drawing. This in spite of the fact that he promised me, as well as Dr. Stagemark, to illustrate with drawings

all of my 18 new species of his recent *Tung*-
guelan collections by sometime in March:
and he has done only about a third of them at
most. However, we shall have to say with
Milton "hence, loathed Melancholy, to Stygian
darkness born". I wish that I had at hand
a capable artist like Dorothy - her drawing
of *Pescatoria cerasia*, as well as the Christmas
letter in her "flowing hand," are truly delightful.

At this writing, when I am confined to my
home with a mean cough, I have not received
any of your Panamanian *Tung*, nor any of the
specimens ~~and~~ representing the earlier parts of
the ^{Panamanian} flora which I promised to identify. Here
again I sympathize with you most kindly
over "unliterary" editing. Such practices as
you describe are scarcely within the rights
of a mere editor.

As you perhaps know, this has been just
as mild a winter as last was severe. Up
to date we have had no severe snow nor
extreme cold. Worst of all we had only 18
days of skating to 52 last year! However, the
Thanks for the C.T. information. ^{driving has been} excellent.

Recently Dick Schultze returned for a year, but
he has gone to Washington for a month to do reports
etc. In spite of annexing beri beri and malaria,
he expects, I think, to return to his native next
winter.

Last night occurred the most severe snow storm
of the winter and it is still "going strong."

With best wishes to you and Dorothy for a
successful and happy life, I am
Cordially your friend, Charles.

ESQUINAS EXPERIMENT STATION
C.A. BANANERA de COSTA RICA
PALMAR, COSTA RICA

February 12, 1949

Dear Charles:

In all of our years in the tropics we have never been able to attain that blissful state of suspended animation presumably common to these latitudes, and in fact, we seem to live in one continual whirl, which leaves us too little time for doing things we like, such as visiting with friends, and answering letters. For example, I have just returned, about ten days ago, that is, from a weeks junket up into the highlands near the Panamanian frontier to look at a piece of property we hope to develop into a highland station, and when only about 1/4 through the work accumulated in my absence, received galley proof on the first half of the Orchids for the M.B.G., which, by the way, was already dummed up and with a note attached saying that any changes therefrom would be to my own personal account! After checking this proof against my original MSS, and swearing the air blue over the deliberate cuts and changes, I barely got it into the mails when I received word that the American Ambassador & a party of eight were to appear the next day, and would I see that they got around & saw the local sights. Sooo, off we went to the races again. Tomorrow at 7:00 A.M. I go to San Jose for two days to purchase seeds & needed supplies, and will probably return to find the same whoop-ti-do still going on. We've lived like that in these countries for nearly fourteen years now & there's no sign of any let up, and I suppose that there never will be any.

In one of your recent letters you ask the derivation of the CIA. in Cia. Bananera de Costa Rica. CIA is the Spanish abbreviation for COMPANIA. Another such which I puzzled over for years, and which you've probably seen is S.A. after the name of a business firm, such as CIA. de Productos de Avicilla, S.A. This is the equivalent of INC. in English, the letters being taken from Sociedad Anonima, or Anonymous Society.

I think you are to be complimented on the excellent job you did on the new genus, Oakes-Amesia, and I am delighted to see the excellent illustration done by Cocton. It is unfortunate that his new duties don't allow him to give more time to that sort of work, since he is so talented. Twelve short months from now noone will either know or care if Mrs. Jefferson Q. Potts exhibited Brassolaalinacattleya "Skunkcabbage" (Brassocattleya "Atomic Fury" x Laelinacattleya "Supercollosal") at the East Overshoe garden club, or that Mr. Horatio W. Poohbah spoke, or distributed ribbons, or was elected honorary vicepresident for the second time. In short, I think he's wasting his time, but perhaps it pays better than immortal ART. Taxonomy may not make the headlines, but it outlasts the most sensational news stories.

You will probably have apoplexy when my Panama Orchids reaches you. First off, Woodson, from the heights of his ultra-superior wisdom acquired with his Ph.D. decided that the punctuation used at the Botanical Museum wouldn't do at all, eliminating about 80% of all semicolons, colons etc. and substituting commas instead. I didn't mind that however nearly so much as his wholesale blue-penciling of all explanatory footnotes, cutting and garbling of generic descriptions, cutting of specific descriptions, revision and cutting of keys etc. etc. I just about blew my rocket when I saw what he had done, but except for patching of the most glaring errors, it was too late to do much about. Needless to say, it is the last contribution I will make to them, at least unless I am assured that they will be willing to let my text go in mostly as written. It makes one ponder whether some of the errors we blame on Schlechter and Kraslin may not as well be the fault of some sanctimonious quilldriver who decided he could shave 3 Marks, 12 Pfennigs off of the cost of printing.

One of the last copies of Time indicates that U.S. Steel plans to split their common stock 3 for 1 in May, if the stockholders approve. My stake in U.S. Steel isn't very big, but it would be just my luck if our present gang of Socialists in Washington decided in the interval to nationalize Steel, or decide that stock splitting is unconstitutional! After the last election, anything is possible. We are certainly living in the century of the COMMON man. My copy of Webster's gives one definition of the word that at least seems apt. It is "Below the ordinary standards second rate". There isn't any question in my mind that 80% of the American Public, and most of the rest of the world as well, looks to Washington as a sort of adulated Santa Claus, who can and will feed, clothe and house everyone, without any effort on the part of the individual.

We wonder what sort of winter you are having. We like to think of Cambridge as it was during our visit, deep in snow & hung with ice on the fronts of the buildings, but probably you are just as well satisfied if such is not the case, and the driving easier.

Dorothy joins me in our warmest regards to yourself and all at the Museum.

Most sincerely,

CHARLES SCHWEINFURTH
11 BOULDER ROAD
WELLESLEY FARMS, MASS.

Nov. 28, 1948.

Dear Paul:

The better the day, the better the deed; so this bright Sunday I shall try to answer your last interesting letter. I guess we have had as much rain as you, for we had only one sunny day last week.

At last our new generic concept, *Claker-America*, has burst into print together with the other Panamerican notes. Of course a copy was dispatched to you, among the other "regulars", and I sent one to Woodson. If you, by chance, wish any extra copies, I could send one or two to you from my own stock (of a dozen extras). I have not heard any earthquake yet, but I am keeping my fingers crossed until I hear from Prof. Ames at Ormond. He had agreed with us as to the validity of the genus, but I am always apprehensive lest some error creep in despite my care.

On Gordon's recent return from his mid-western Orchid Society tour, I gave him your list of desired plates and he has

lately, forwarded them to St. Louis. It was quite a job to locate and pack the blocks.

As you will note, I had the engravers insert numbers on the various figures of Dorothy's plate - a lack which I had not noticed until I started to write the "Explanation".

You may well imagine that I was disastrously amazed at the recent catastrophic election. Of course high wages and the existing, high returns to the farmer had their effect, but we all feel that the Republicans defeated themselves by not voting, so cocksure were they of victory. Then, too, the intelligence of the average voter exceeds that of a fifteen year old. As I wrote Dewey, I was not so much sorry for him & Warren as disappointed that we had lost the services of two outstanding public servants.

It was very kind of you to send the beautiful Kodachromes and I thank you for these and for the stamps.

Please give my kindest regards to Dorothy and believe me

Yours cordial friend,

Charles Schuierfarth

P.S. What is the significance of GDA.?

CHARLES SCHWEINFURTH
11 BOULDER ROAD
WELLESLEY FARMS, MASS.

Oct. 15, 1948.

Dear Paul:

At last I shall at least begin an answer to your wonderfully interesting letter to which I have made a mental start many times. You have doubtless wondered at my boasted writing facility, but it is a case of the spirit being willing but the flesh weak.

Yesterday I put the finishing touches on the little Panama article about your species.

I had been waiting for Mr. Weatherly's return, since he had been ill and away, in order to

verify the name *Amesicella*. He tells me that since that name has been used, even though a nomen, he would prefer to use a different name and I am strong for *Ocker-Amesia*.

I shall try to urge this cognomen when I see Prof Ames on his very infrequent visits. Gordon has prepared a good plate.

I wrote to Woodson yesterday that my article for the Mus. Leaflets would appear in early November.

Well, things at the Museum run along as usual: Louis and Ted Hill are their usual helpful selves, eager to do anything of service to their struggling fellows. The luncheon

Donath's illustrations from the nice copper plates will be a distinct embellishment to the article, C.S.

Please give to Dorothy my hearty thanks for her interesting letter which
survived my suspension after you left.
with kindest regards to you both, I am
Cordially your friend,
Chas. B. D.

"club" has almost disappeared, for Gordon often
takes his lunch "at the Square" and I eat in
lonely state at your old place, for a change &
relaxation. You see that your ready argu-
ments lured Gordon to stay, but I am not
so willing ^{or able} at these rapier thrusts. This A.M.,
however, I have affixed my Dewey button,
and you can imagine what will happen!
Just now David is "undergoing the throes"
of his nursery school, and he is on the
way to being an "infant prodigy", at least
in the mind of his doting dad.

Well, Mexico is now only a dream, but I
was lucky enough to get some interesting
pictures - over a hundred in 16 days - and my
neighbor, Mrs. Huntington has offered to mount
them, in my cousin's place. I should have
enjoyed my sojourn much more without
the sight-seeing rush and late hours. But
that huge Cuscuta that smashes the trees
near Puebla amazing!

Your description of your life and en-
viron is most engrossing, and, aside from
the probable heat, I envy you the life. If
one could combine the Mexican climate
with your environment, it would be ideal.
Perhaps I might yet pay you a visit.

I am now "head over heels" in politics -
chairman of my precinct for the Republican
Finance Committee, as twice previously.

ESQUINAS EXPERIMENT STATION
CIA. BANANERA de COSTA RICA
GOLFITO, COSTA RICA

October 22, 1948

Dear Charles:

Your good letter has just come, and I want to hasten to compliment you on the very happy solution you have hit on for the new Genus *Oakes-Amesia*. We will be very much interested to see it in print. I am delighted that Gordon could find time to do one of his excellent drawings. It will be unfortunate if his new duties prevent occasional artistic work for you since he is so greatly talented in that sort of thing.

The current political campaign seems very far away to us here, although we have at long last begun to receive our air mail edition of *Time* magazine, which somewhat keeps us up to date on the passing show. I believe your man has an excellent chance of winning in a walk this time and I'm at least sure our people will have common sense enough to spare us such a genuine calamity as having Wallace for President! I'm almost depressed however to learn that Gordon has at last given you up as a political Pharisee. I'm sure that if we were there the welkin would ring to slogans like; "With Henry & Joe (Stalin) War will Go", "We don't want War ~~Drugs~~?" or "Join the USSR & prevent the WAR" (Wait a minute, I'm getting too good at this. Who's side am I on, anyway?).

I have had a recent letter from Dr. Woodson regarding the possible use of some of your available illustrations for my part of the Panama Orchids. I am enclosing lists of the previously published things on which plates probably exist and the unpublished drawings by Gordon & Mrs. Ames which were when last seen stored in the bottom left hand drawer of Gordon's desk across from yours. I don't like to have to bother you about it, but it would be very greatly appreciated if you could ask Gordon or perhaps one of the watchmen to have them packed up and sent to Dr. Woodson at the Garden. I received a letter from Professor Ames a month or two ago authorizing the use of the illustrations, but I considered it best to await the arrival of my files before contacting you, since I was somewhat uncertain as to the original place of publication of some of the plates. Anything you can do will be a real help. Both Mrs. Ames and Gordon do such beautiful work that it seems only right that all of their drawings be published and distributed as widely as possible. Good sound descriptions backed by good drawings are the very foundation stones of our science, and there can't be too many of them.

We are having a great deal of rain just now, this being our wettest month, but in spite of it all I feel that the place is beginning to shape up fairly well. We have the bulk of the giant logs which were heaped up along the front of the property now buried and one half of what is to be a quarter mile long avenue of Royal Palms planted as well as a good deal of progress on the necessary stonework along the RR right of way and the main drives. This ought to be in the province of the Engineering Dept., but they are slower 'n the proverbial molasses in January and I would rather do it myself than to sit & ~~fight~~ my fingernails down to the elbow waiting for them.

I have been called away from here a good deal lately for consultations on other projects in adjacent areas, and I am beginning to wonder if we may not be moved to some more assessible place. I am enclosing two or three slides recently taken on one of these junkets to Quepos, about a hundred miles up the coast. The surf, and little sheltered bays and rocky offshore islands of that area were beautiful and we enjoyed our stay there very much.

Dorothy has been hard at work collecting insects which she has been sending to Dr. Bequaert over in the MOZ. I don't think we have ever seen as colorful and fantastic things as we find here. She joins me in our most sincere regards to yourself and our other good friends at the Museum.

As ever,

LIST OF AVAILABLE UNPUBLISHED DRAWINGS OF

PANAMA ORCHIDS

<u>SPECIES</u>	<u>ARTIST</u>	<u>PREPARED FOR -</u>
<i>Aspasia epidendroides</i>	Dillon	Flora of Guatemala
<i>Aspasia principissa</i>	Ames	??
<i>Bletia purpurea</i>	Dillon	Flora of Guatemala
<i>Bulbophyllum pachyrachys</i>	Ames	??
<i>Calanthe mexicana</i>	Dillon	Flora of Guatemala
<i>Campylocentrum micranthum</i>	Dillon	" " "
<i>Dichaea panamensis</i>	Ames	??
<i>Loekhartia pallida</i>	Ames	??
<i>Maxillaria Friedrichsthali</i>	Ames	??
<i>Maxillaria neglecta</i>	Ames	??
<i>Maxillaria variabilis</i>	Ames	??
<i>Oncidium carthaginense</i>	Ames	??
<i>Ornithocephalus bicornis</i>	Ames	??
<i>Sigmatostalix guatemalensis</i>	Dillon	Flora of Guatemala
<i>Trigonidium Egertonianum</i>	Dillon	" " "
<i>Zygopetalum grandiflorum</i>	Dillon	" " "

cc - Professor Oakes Ames

Dr. Robert E. Woodson

LIST OF AVAILABLE PLATES OF PANAMA ORCHIDS

PUBLISHED BY OR FROM

THE AMES ORCHID HERBARIUM

<u>SPECIES</u>	<u>ARTIST</u>	<u>WHERE PUBLISHED</u>
<i>Aspasia pusilla</i>	Dillon	Bot. Mus. Leaflets - Vol. X - Plate 1
<i>Cyrtopodium punctatum</i>	Ames	Drawings of Florida Orchids - No. 56
<i>Eulophia alta</i>	Ames	" " " " - No. 55
<i>Ionopsis utricularioides</i>	"	" " " " - No. 57
<i>Lockhartia obtusata</i>	Dillon	Am. Orch. Soc. Bull. IX - p. 208
<i>Maxillaria conduplicatum</i>	Ames	Sched. Orch. No. 8 - p. 67
<i>Maxillaria repens</i>	Dillon	Am. Orch. Soc. Bull. X - p. 272
<i>Maxillaria variabilis</i>	Ames	Flora of the Canal Zone - p. 145
<i>Oncidium ebrachiatum</i>	Ames	Sched. Orch. No. 8 - p. 76
<i>Oncidium parviflorum</i>	Dillon	Am. Orch. Soc. Bull. IX - p. 33
<i>Oncidium teres</i>	Ames	Sched. Orch. No. 8 - p. 79
<i>Trichopilia leucoxantha</i>	Dillon	Am. Orch. Soc. Bull. X - p. 136

cc - Professor Oakes Ames

Dr. Robert E. Woodson

ESQUINAS EXPERIMENT STATION
CIA. BANANERA de COSTA RICA
GOLFITO, COSTA RICA

September 14, 1948

Dear Charles:

Now that things have quieted down a bit, I hope to be able to be a somewhat better correspondent. We have now been here about five weeks, and although there have been many complications, I will say the place is already beginning to have a different look about it. Our garden is situated on level land, between the banana plantations and the forested hills, with about half of the felled area cleaned and more or less planted, and the other half still a vast swamp, with water standing two to ten inches deep over most of it, and a welter of giant logs lying every which way, to be disposed of as best we can. Our annual rainfall is some 220 inches, with little or no dry season, and the trunks never dry enough to burn, so I now have a gang of about twenty men opening deep trenches to carry off as much of the water as possible, after which we will open other extensive pits up to five or six feet in depth, and totaling hundreds of feet in length, where we will bury our logs, there being no other apparent way to be rid of them!

The adjacent forested area is of considerable interest, although I have been too busy thus far to do more than take hurried looks at as much as can be seen from the house, or the few orchids that have come down with trees as we have felled them. I believe however that when I can get to collecting actively, that much new material may come to light. The expense involved in the development of this place will be very great, and I should scarcely have chosen so isolated a situation if I had been consulted, but I believe they feel that it will be valuable information to know what economic plants will do well, in areas of such terrific rainfall. Someday the Sigatoka will force them to abandon thousands of acres of bananas here, and they hope to have something ready for replanting the land.

We were interested to hear your impressions of Mexico. When we last saw you, we thought it was more or less settled that you would join Don Correll in the Great Smokies. We like much of Mexico, but also did not like Mexico City too well, although it is a fairly interesting place to shop. One of the features hard in a way for me to understand was the extreme barrenness of the surrounding area, at least as seen from the air. It certainly in no way coincides with the lush region of lakes and floating gardens described by Prescott, as having been the appearance of the place at the time of the Conquest. We also enjoyed the ride through the Oak forests on the way to Cuernavaca and Texco, and came away from the latter place, as I am sure you did also with a fine set of Kodachromes. We did not get to Fortin, but we envy you your stay there, and the fine views you describe of Orizaba. I have never seen a snow peak in the tropics to equal it, and have always cherished the hope that we might see more of it some day. Maybe we can agree to meet in Mexico somewhere some year when we are both on vacation, and you can show us some of the places we've missed.

In the last few days I have had a little time to go over my Mss. on the Panama Orchids, and find one or two points which need clearing up. For example, I note that Dalla Torre & Harms list Onkeripus and Pentulop as synonymous names under both Xylobium and Maxillaria. These are some of the many "genera" perpetrated by Rafinesque, and it may not be easy to determine just what species he had in mind, in the descriptions, but I would appreciate your opinion on the matter as to where they should be correctly cited in the synonymy. Also, has anything further been done on the various new genera, species and varieties? I was relieved to hear that the two copper plates reached you, and might be of some use. It would be fine if Mrs. Ames or Gordon could find the time to do the new genus. I wonder if you have decided on a definite name as yet. I can't seem to think of anything better than Neoamesia, or Oakesamesia, but perhaps you have been more inspired.

The other evening I spent several hours entertaining my little self with a sort of Botanical Idiots Delight that sometimes fascinates me, making a chart of the geographical range and relationships of the Panama Orchids, and the results were in some ways rather startling, although along the lines we so often discussed when we were with you there. For example, I find that 108 species are presumed to be endemic to Panama, mostly things known from single collections, and hence somewhat open to question. Also, while 135 species are common to Panama and Costa Rica, only 6 are common to Panama and Colombia! This on the first blush is simply incredible, since it would indicate a profound biological break between Panama and Colombia, territories which on the Darien-Choco boundary share common lands for more than one hundred and twenty five miles. After some consideration, and consultation of my Mss. rainfall map of Panama, and charting of areas from which collections have been taken, I am slowly coming to the conclusion that the parts of Panama which would be likeliest to have a Choco-type flora have as yet, for the most part, to be seen by a botanist, even from afar. All of the highland area of the boundary is completely unknown, as are the mountains of the San Blas coast as far as the Canal. The parts of Panama best collected and best known are the Canal area, the dry Pacific coast for thirty miles east, and sixty miles west of Panama City, the wet highlands of Coole, and the highlands of Chiriqui, all of which would be expected to have affinities with the flora of Costa Rica. Then too, the Orchids of both Costa Rica and Panama have been quite thoroughly studied in recent years, and their entites fairly well correlated with each other, whereas the Colombian Orchids are less well known, and in any event probably blasted to glory when Schlechtens herbarium went up in flames during the war. All in all, I have about concluded that the relationships as cited above may actually represent fact, and in any event it would now be pretty hard to make out a case to the contrary!

Of the few flowering orchids which have come to hand here, there have been plants of one of the many forms of Epidendrum paniculatum, traced through your excellent and very workable key, and plants also of an odd form of Maxillaria variabilis. While I will admit these are extreme cases, I have in consequence had my little mind running 'round & 'round on the same old familiar trolley. I am if possible more than ever convinced that there should be some means of expressing the often obvious relationships between plants in the system of nomenclature. I think too much has been made of relatively small deviations from established archetypes, and instead of warranting a standing as good species, they should be listed as varieties under the archetypal name. The Mexican and Central American varieties of Odontoglossum grande would be a good case in point. However, within these varieties

themselves there are often striking deviations from the norm, particularly in color, size etc. and I am coming to entirely agree with Ted Hill that the more outstanding of these can scarcely be ignored. If all variants are simply reduced to synonymy without comment, it leaves the field open for their resurrection as species at a later date, particularly if it is done by a less experienced worker. A good example of what could and should be done can be cited in your treatment of Epidendrum firmanii, E. simulacrum and E. Storkii as varieties (subspecies) of Epid. difforme. A series of such treatments would, I believe, do much to lay the ghosts of many "species" of dubious standing, but there would remain the problem of the proper disposition of outstanding deviations in color & size. I would personally favor the use of forma alba, flava, gigantea, nana etc. over variety, which term should properly be reserved for the designation of entities of subspecific rank. But you have already heard me hold forth on my favorite subject, ad nauseum, in the past, so I will not harp on the matter further.

Although we receive mail fairly regularly, the sending of it is a problem, since I have to accumulate letters until I'm bound in to town. I hope to be able to send this day after tomorrow, since I have been called in for consultation on a problem dealing with plantation stands of Mahogany at Quepos, about a hundred miles up the coast, and expect to fly there via Palmar.

Although we have been here only about six weeks, and away from Cambridge less than three months, we are already looking forward to our next leave, when we hope to be able to join you for a few days in our sessions of the Ames Herbarium luncheon club. Those were the days, and now we loved it!

Just by the way, someone at the Museum has been kind enough to send me a copy of Mr. Swamy's recent paper on the Vascular Anatomy of Orchid Flowers. I greatly treasure my set of the Museum Leaflets, and appreciate being able to keep it up to date. Many thanks to whoever was responsible.

When your treatment of the Panama novelties appears, I will of course be very much interested to see it. I can't but help wonder if your Venezuelan Orchids done for Steyermark is out. To us it seems like only yesterday when we could see you just down the way, bending over your microscope, hard at work on them, but I suppose by now you have completed half a dozen other projects, and have your mind set on winter and skating.

Enclosed are a few stamps which have come to us here. I'm sure the Costa Rican Roosevelt commemoratives will be particularly welcome in your collection.

Dorothy joins me in our warmest regards to all of our good friends there, particularly Ted Hill, Louis Bierweiler, Gordon, Mrs. Towle & Dr. Bequaert, if you see him.

As ever,

P. S. Today we had a letter from Dick Schultes. He is still at it, and suffering from Beri-Beri until he can hardly write, but otherwise seems to still be his old enthusiastic self. He'll be a second Bates & Spruce rolled into one, IF he lives to tell it, but I wish he were safe back in Cambridge.

CHARLES SCHWEINFURTH
11 BOULDER ROAD
WELLESLEY FARMS, MASS.

Aug. 15, 1948.

Dear Friends:

To say that your letters were most welcome would be expressing my feelings mildly. For weeks I had been daily expecting word from you and was not a little anxious. But I concluded that no news is good news.

Of course I was immensely interested in your detailed letter, Dorothy. It so happened that it arrived when I was in the hospital with acute bursitis, and Louis Bierwiler, who brought it over, was much entertained as well. Just after I had planned a short Mexican tour with a Wellesley friend as my guest, the aforementioned painful affliction came out of a clear sky; but, by dint of three deep X-ray treatments on my right hip I was practically normal by July 31 when my Heidelberg tour started. So we went and returned and my feelings are mixed. I am mighty glad to have gone, but I don't particularly like Mexico City. It is too dirty; the

P. S. Good occasion to call on Stuyvesant at the Field and he said he was glad that I was so favorably impressed with you. C.S.

traffic is a fright; and the side-walks very dangerous. We enjoyed several wonderful trips, by auto, the ones to Taxco and the Valley of Orizaba being outstanding. It seemed to me that Taxco was the most charmingly artistic spot I have ever seen, with camera shots at every side! At Fortin our room had a little balcony, that afforded a wonderful view of Orizaba in the early A.M. Here we were more or less lucky (according to the viewpoint) to experience a rather severe earthquake which wakened me and shook the bed violently for about a minute. In addition it was most interesting to see banana and coffee plantations.

The weather in the city was cool but a shower came every afternoon. Very often, too, the air-conditioning on the rail-road was faulty. So I am convinced that flying is the only comfortable method in the summer.

Some weeks ago I received the two handsome copper plates for which I thank you sincerely.

As to the matter of the new genus, I did not see Prof. Ames before I left, but I shall discuss the matter with him.

With best wishes to you both, I am

Your cordial friend,
Charles S.

August 1, 1948

Dear Charles:

Your very good letter reached us in St. Louis shortly before our leaving there, and only yesterday have we come to a full stop long enough to have me collect my small wits and get down to an answer. I believe that Dorothy in her capacity as family scribe possibly gave you some of the details of our travels when we still were in Lancaetilla, Honduras, but I don't believe anything was done at that time about the several specific questions contained in your letter. Anyway, after all of the above preamble and delay, here goes.

I suppose that you have long since received the two copper plates which we ordered made in St. Louis, to be sent to you at the Museum. We were afraid that they would not be done in Boston before we left, since our time was getting very short, but I much regret that something could not have been worked out, since I have a very definite feeling that the work done in St. Louis will not by any means come up to your high Boston standards, judging by the zinc cuts we had done at the same time. It is just another example of the sort of thing that happens when you try to have too many irons in the fire, and try to do all of them hurriedly. If Gordon can find the time, it will result in a much finer piece of work if he can redo them, but if the worst comes to the worst, they may be better than no illustration at all. If by any stroke of exceptional stupidity in St. Louis the plates have not reached you to date, please drop me an air mail not at once and I will go to work on them, or you can write Mr. Decker, of the Rapid Engraving Co. 17 1/2 & Locust Aves. St. Louis about them. I hope that all of this won't be necessary, and that you have them by now.

In the matter of the name *Amesiella*, which has proven to be preoccupied, the most obvious alternative would be *Neoamesia*, or perhaps even *Neoamessiella*, or *Oakesamesia*, although I would personally favor the first. I hope some alternate can be worked out, since his name should be preserved in some Orchid genus of valid standing. You may be considering something more obvious or appropriate, and if so you should of course follow your own inclination.

Since leaving you a moment has been available from time to time to look over my *Minum Opus*, and I am appalled at the lack of grammar, and density of style that I seem to have developed. I have redone some of the worst pages and sent them on to Miss Horner, and I sincerely hope that Galley Proofs will be sent me to try to iron out some of the others. In regard to the contents, I am of course no judge, and can only hope for the charity of those of you better informed than myself. If one could see the errors, they would not ~~be committed~~ be perpetrated, but unfortunately the things that will be most obvious to others are not apparent to myself, mercifully perhaps. Maybe they will succeed in editing out some of the worst bulls in St. Louis. I hope so.

Since leaving the Museum, and all of our good friends there, it has increasingly impressed itself on both of us what a really unique experience we enjoyed there with you. Working conditions have never in our experience so nearly approached the ideal, and never have we been among more congenial associates. No matter what we may subsequently do, or where we may go, both Dorothy and myself feel that our stay

in Cambridge was one of the most pleasant periods of our lives.

Dorothy joins me in our most sincere regards to yourself,
and to all ~~xxxx~~ the rest of our good friends at the Museum.

Yours truly,
Dorothy

Dear Charles

Your very good letter reached us in St. Louis shortly before our leaving there, and only yesterday have we seen it. I am glad enough to have it, and I am glad to have it in your hands. I believe that Dorothy in her capacity as family secretary has given you some of the details of our travels when we were in Lancaster, Ontario, but I don't believe anything has been done at that time about the general specific questions contained in your letter. I am sorry after all of the above promises and delays have been

I suggest that you have long since received the two copper plates which we ordered made in St. Louis, to be sent to you of the Museum. We were afraid that they would not be done in London before we left, since our time was getting very short, but I am sure that something could not have been worked out, since I have a very definite feeling that the work done in St. Louis will not be any less than that done in your high Boston standards, judging by the time out we had done of the same kind. It is just another example of the sort of thing that happens when you try to have too many irons in the fire, and try to do all of them hurriedly. If Gordon can find the time, it will result in a much finer piece of work than we can do there, but if the work comes to the point, they may be better than our illustration at all. It is a matter of exceptional capability in St. Louis. The plates are not ready yet, but I hope that all of this

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In the matter of the new Anacardiaceae, which has proven to be preoccupied, the most obvious alternative could be Rosaceae, or perhaps even Malvaceae, or Guttiferaceae, although I would personally favor the first. I hope some alternative can be worked out, since this new genus should be placed in some other genus of valid standing. You may be considering something more obvious or appropriate, and if so, you should of course follow your own inclination.

Since sending you a comment has been available from time to time to look over my *Mimosa* genus, and I am spoiled of the lack of government and details of style that I seem to have developed. I have revised some of the notes pages and sent them on to Miss Hornay, and I sincerely hope that daily proofs will be sent me to try to iron out some of the details. In regard to the comments, I am of course no judge, and can only hope for the charity of those of you better informed than myself. If one could see the errors, they would not be ~~xxxxxxxxxxxx~~ be perpetuated, but unfortunately the things that will be most obvious to others are not apparent to myself, especially perhaps. Maybe they will succeed in editing out some of the worst bits in St. Louis. I hope so.

Since leaving the Museum, and all of our good friends there, it has increasingly impressed itself on both of us that a really unique experience we enjoyed there with your working conditions has never in our experience so nearly approached the ideal, and never have we been among more congenial associates. As matter that we may occasionally do, or where we may go, both Dorothy and myself feel that our best

ORCHID HERBARIUM OF OAKES AMES
BOTANICAL MUSEUM, HARVARD UNIVERSITY
OXFORD STREET, CAMBRIDGE 38, MASSACHUSETTS

June 16, 1948

Mr. Paul H. Allen
Missouri Botanical Garden
2315 Tower Grove Avenue
St. Louis 10, Missouri

Dear Paul:

A pleasant reminder of your recent welcome association with us was a fleeting call from Dr. and Mrs. Schery yesterday. He is a most personable fellow.

Prof. Ames, on his first visit here last Friday, was sorry to miss you of whom we gave a very good report. I took occasion to show him both your recent gift to us of your bottled collection of flowers and the new species. He seemed to be pleased but pointed out that the name *Amesiella* has been used (though it is not in the catalogue). So we must find some substitute.

made
Before you left, I had the understanding that you are having a copper plate, of *Brassia Allenii* L. O. Wms. ex C. Schweinf. made for us. This will be a happy solution of our problem and we shall of course have to use it when our Panama article appears.

Kindly give my best regards to Mrs. Allen.

Your friend,

Charles Schweinfurth

Charles Schweinfurth

CS:bm

CHARLES SCHWEINFURTH
11 BOULDER ROAD
WELLESLEY FARMS, MASS.

June 8, 1948.

Mr. Paul H. Allen
Botanical Museum,
Cambridge, Mass.

Dear Paul:

As evidence of my regard
and esteem for you and Mrs. Allen,
which was shared by my cousin
Mrs. Wheeler, during our all-too-
short association, I send this small
token. Perhaps you will buy with
it a little flask or some other
keepsake to recall our friendship.

It is my feeling that we have
never had a worker in the Laboratory
who has shown so much thorough-
ness and downright common sense in
orchid work.

With best wishes for the health
and prosperity of you both, I am
Your cordial friend,
Charles Schweinfurth

Field notes on Panama Orchids

Chiriqui Province - Vcty. Cerro Punta - 6500 ft. - May 24, 1946

3480 - *Stelis* - Epiphytic. Flowers reddish brown.

Cocle Province - Hills north of El Valle de Anton - Crest of Cerro Pajita - 3500 ft.
Oct. 27, 1946

3783 - *Erythroides* - Terrestrial.

3785 - *Epidendrum* - Sepals & petals pale green. Lip pure white.

3787 - Terrestrial. Leaves striped silvery grey. Sepals & petals cream yellow. Lip cream yellow, striped lavender. See liquid specimen.

Cocle Province - Hills north of El Valle de Anton - Crest of Cerro Pajita - 3500 ft.
Nov. 18, 1946

3802 - *Spiranthes* - Terrestrial, in heavy shade. Scape bracts coral red. Dorsal sepal zinc orange. Lateral sepals and petals and lip near orange buff. See liquid specimen.

Cocle Province - Hills north of El Valle de Anton - Crest of Loma del Tigre - 3000 ft.
Nov. 16, 1946

3811 - *Scaphyglottis* - Sepals & petals white, ~~with faint lateral purple lines~~
Lip white, with faint lateral purple lines. Column purple. See liquid specimen.

3812 - *Isochilus* - Sepals purple, shading to cream yellow at the tips. Petals greenish yellow. Lip translucent, greenish yellow. See liquid specimen.

3814 - *Pleurothallis* - Sepals white. Petals pale yellow. Lip yellow. See liquid specimen.

3815 - *Pleurothallis* - Upper sepal pale translucent green, heavily spotted maroon. Lateral sepals red, with a broad central pale green stripe and irregular maroon blotches under the lip. Petals maroon, with ciliate margins. Lip maroon. Column maroon. See liquid specimen.

3816 - *Pleurothallis* - Flowers purple. See liquid specimen.

Cocle province - Hills north of El Valle de Anton - Crest of Loma del Tigre - 3000 ft.
Dec. 26, 1946

3922 - *Epidendrum criniferum* Rchb. f. See liquid specimen.

3923 - *Pleurothallis* - See liquid specimen.

3924 - *Epidendrum nocturnum* var. *latifolium* - Foliage purple on the lower surfaces.

Cocle Province - Hills north of El Valle de Anton - Crest of Cerro Pajita - 3500 ft.
January 2, 1947

3933 - *Spiranthes* - See liquid specimen.

3934

Cocle Province - Hills north of El Valle de Anton - Crest of Cerro Pajita - 3500 ft.
Jan. 2, 1947

- 3940 - *Spiranthes* - Terrestrial. See liquid specimen.
3943 - *Epidendrum* - Flowers green - See liquid specimen.
3950 - Epiphytic. Flowers pale green.

Panama Province - Summit of Cerro Campana, near town of Campana - 2500 ft. Jan. 7, 1947

- 3961 - *Pleurothallis* - Flowers reddish brown. See liquid specimen.
3963 - *Pleurothallis* - Flowers purple. See liquid specimen.
3969 - *Pleurothallis* - Flowers translucent, marked reddish brown. See liquid specimen.
3975 - *Pleurothallis* - Sepals & petals white. Lip white, excepting the purple frontal lobe which has a white central spot. Anther cap purple. See liquid specimen.
3978 - *Spiranthes* - Epiphytic, in heavy shade in mossy forest.

Cocle Province - Hills north of El Valle de Anton - Crest of Cerro Pajita - 3500 ft.
Jan. 12, 1947

- 3980 - *Scaphyglottis* - Sepals & petals pale greenish white. Column & anther lavender. See liquid specimen.

Panama Province - Summit of Cerro Campana, near town of Campana - 2500 ft. Jan. 12, '47

- 3982 - *Scaphyglottis* - Flowers translucent - striped lavender. See liquid specimen.
4027 - *Epidendrum ibaguense* - From summit of sheer rock face. See liquid specimen.
4028 - *Epidendrum anceps* - Flowers greenish yellow.

Cocle Province - Hills north of El Valle de Anton - Crest of Cerro Pajita - 3500 ft.
Feb. 7, 1947

- 4189 - *Pleurothallis* - Flowers maroon - See liquid specimen.

Cocle Province - Hills south of El Valle de Anton - 2100 ft. Feb. 7, 1947

- 4207 - *Scaphyglottis* - Flowers white. Common.

Panama Province - Summit of Cerro Campana, near town of Campana - 2500 ft. Mar. 6, '47

- 4271 - *Scaphyglottis* -
4320 - *Epidendrum* - Growing on boulders in grassland. See liquid specimen.

Veraguas Province - Forested slopes of Cerro Tute, near Santa Feé - 2500 ft. Mar. 25,
1947 - With Graham Fairchild

- 4364 - *Epidendrum* - Flowers green - See liquid specimen.
4365 - *Epidendrum* - Flowers white - See liquid specimen.
4383 - *Pleurothallis* - See liquid specimen.
4384 - *Pleurothallis* -

Slopes of Cerro Tute, Veraguas etc.

- 4385 - *Pleurothallis* - See liquid specimen.
4386 - *Pleurothallis* - See liquid specimen.
4387 - *Epidendrum* - Sepals & petals pale green. Lip purple. See liquid specimen.
4388 - *Pleurothallis* - Flowers rasin purple.
4406 - *Pleurothallis* - See liquid specimen.
4409 - *Epidendrum* - See liquid specimen.
4411 - *Pleurothallis* - See liquid specimen.
4412 - *Pleurothallis* - See liquid specimen.

Cocle Province - Hills north of El Valle de Anton - Crest of Cerro Pajita - 3500 ft.
April 9, 1947

- 4443 - *Pleurothallis* - See liquid specimen.

Cocle Province - Hills north of El Valle de Anton - Crest of Loma del Tigre - 3000 ft.

- 4480 - *Epidendrum oncidioides* ? Sepals & petals tan. Lip white, marked purple. See liquid specimen.

Panama Province - Summit of Cerro Campana - near town of Campana - 2500 ft. April 22, '47

- 4487 - *Pleurothallis* - Flowers creamy white.

Chiriqui Province - Vcty. David - 100 ft. April 29, 1947

- 4501 - *Epidendrum* - Sepals & petals greenish yellow to tan. Lip white. See liquid specimen. Common on fence posts.

Panama Province - Summit of Cerro Campana, near town of Campana - 2500 ft. April 23, '47

- 4503 - *Pleurothallis* - Flowers translucent, the Sepals, petals & lip heavily striped and spotted with purple. See liquid specimen.

Veraguas Province - Forested slopes of Cerro Tute, near Santa Fe, 2500 ft. May 9, '47

- 4508 - *Elleanthus hymenophorus* Rehb. f. Sepals & petals rich yellow. Lip rich yellow, the frontal lobe edged bright orange.

Panama Province - Slopes of Cerro Campana, near town of Campana - 2000 ft. May 23, '47

- 4523 - *Epidendrum eburneum* Rehb. f. Sepals pale tan. Petals pale cream yellow. Lip pure white, with a bright yellow basal callus. Plants found on boulders in grassland. See liquid material.

- 4558 - *Epidendrum* - Sepals & petals creamy white. Lip white, with purple stripes. Fragrant. See liquid specimen.

Veraguas Province - Forested slopes of Cerro Tute, near Santa Fe, 2500 ft. June 20, '47

- 4566 - *Epidendrum difforme* - Flowers green.

- 4649 - *Epidendrum* - Sepals & petals green. Lip white, with a lavender callus. See liquid specimen.

Chiriqui Province - Vety. Boquete, lumber trail west of the Rio Caldera, 4500-6500 ft.
July 23, 1947

4668 - Epiphytic - Sepals & petals orange. Lip creamy white.

Chiriqui Province - Vety. Boquete. Elevated gravel benches about 1 mile south of town.
4000 ft. July 21, 1947

4727 - Epidendrum - Flowers tan. Very common.

Chiriqui Province - Trail along forested ridges south of Finca Lerida, to Loma Sardina
6000-7000 ft. July 26, 1947 (Much in old second growth, but with pockets of the original
Bamboo-Oak association)

4766 - Epidendrum difforme - Flowers green. Frequent.

Chiriqui Province - Bajo Mono - Robalo Trail, Headwaters of the Rio Caldera, 5000-7000 ft
July 27, 1947

4840 - Epidendrum - Sepals & petals tan, blotched reddish brown. Lip white.

4857 - Habenaria ?? - Epiphytic, in wet moss, on the side of a very large tree. Sepals and petals dark green. Lip and spur white, the spur tipped green. See liquid specimen. This is very outstanding, and quite unlike any other Habenaria I know.

4867 - Terrestrial. Flowers green.

4868 - Epidendrum - Flowers dark brownish purple. See liquid specimen.

Chiriqui Province - Summit of Cerro Copete, in Bamboo Oak zone and uppermost Ericaceous
barrens, 9000 ft. July 29, 1947

4903 - Epidendrum ? Flowers tan. Plants growing in moss, on stunted trees near the summit.

4904 - Epidendrum - Flowers tan. See liquid specimen.

Bocas Del Toro Province - Robalo - La Guinea trail - Northern slopes of Cerro Horqueta
6000-7000 ft. August 5-7, 1947

4949 - Stelis - Sepals maroon. Petals dark orange. Lip maroon.

5013 - Epidendrum - Flowers pale green, becoming tan with age. In tops of tallest trees.

Cocle Province - Hills north of El Valle de Anton - Crest of Loma del Tigre, 3000 ft.
July 6, 1947

5066 - Stelis Allenii L. Wms. Sepals tinged rasin purple on outer surfaces, greenish on inner surfaces. Petals and lip rasin purple. See liquid specimen.

Panama Province - Slopes of Cerro Campana, near town of Campana, 1000 ft. August 23,
1947 - Collected by Dorothy Allen

5074 - Scaphyglottis - Flowers white.

Panama Province - Rio Chagres, Vety. Juan Mina, 80 ft. August 24, 1947. Collected by
Dorothy O. Allen

5076 - Epidendrum - Flowers green.

Cocle Province - El Valle de Anton - 1800 ft. July 30, 1947 - Collected by Harry Dunn

5082 - *Epidendrum difforme* Jacq. See liquid specimen.

Chiriqui Province - Vctv. Finca Lerida, slopes of Chiriqui Volcano, 5000 ft. July 31, 1947 - Collected by Mr. R. K. Morris.

5083 - *Epidendrum difforme* - See liquid specimen.

5084 - *Epidendrum difforme* - See liquid specimen.

Cocle Province - El Valle de Anton - 1800 ft. August 2, 1947

5085 - *Epidendrum difforme* - See liquid specimen.

NOTE: The above specimens, No.s 5082 - 85 show about the maximum limits of variation of this species in Panama.

Colon Province - Summit of Cerro Santa Rita, 1500 ft. Sept. 13, 1947 - With Dorothy Allen.

5103 - *Habenaria* - Terrestrial. Sepals green. Lip & petals white.

5113 - *Pleurothallis* - Flowers rasin purple.

5114 - *Scaphyglottis* - Flowers pale pink.

5115 - *Scaphyglottis* - Flowers pale lavender.

5129 - *Polystachya* - Flowers greenish yellow.

Cocle Province - Hills north of El Valle de Anton - Crest of Loma del Tigre - 3000 ft. Sept. 28, 1947

5132 - *Pleurothallis* - Flowers rasin purple.

Colon Province - Summit of Cerro Santa Rita, 1200-1500 ft. Oct. 18, 1947.

5185 - *Pleurothallis* - Sepals maroon, shading to white at the saccate base, the inner surfaces of the apices tan. Petals maroon, with fimbriate margins, shading to white at the base. Lip maroon, with a white apex. See liquid specimen.

~~5186 - *Pleurothallis* - See liquid specimen.~~

5187 - *Epidendrum* - See liquid specimen.

5195 - *Scaphyglottis* - Flowers pale lavender.

Cocle Province - Hills north of El Valle de Anton, Crest of Loma del Tigre, 3000 ft. Oct. 15, 1947

5199 - *Pleurothallis* -