



Hunt Institute for Botanical Documentation  
5th Floor, Hunt Library  
Carnegie Mellon University  
4909 Frew Street  
Pittsburgh, PA 15213-3890  
Telephone: 412-268-2434  
Email: [huntinst@andrew.cmu.edu](mailto:huntinst@andrew.cmu.edu)  
Web site: [www.huntbotanical.org](http://www.huntbotanical.org)

The Hunt Institute is committed to making its collections accessible for research. We are pleased to offer this digitized item.

#### *Usage guidelines*

We have provided this low-resolution, digitized version for research purposes. To inquire about publishing any images from this item, please contact the Institute.

#### *Statement on harmful and offensive content*

The Hunt Institute Archives contains hundreds of thousands of pages of historical content, writing and images, created by thousands of individuals connected to the botanical sciences. Due to the wide range of time and social context in which these materials were created, some of the collections contain material that reflect outdated, biased, offensive and possibly violent views, opinions and actions. The Hunt Institute for Botanical Documentation does not endorse the views expressed in these materials, which are inconsistent with our dedication to creating an inclusive, accessible and anti-discriminatory research environment. Archival records are historical documents, and the Hunt Institute keeps such records unaltered to maintain their integrity and to foster accountability for the actions and views of the collections' creators.

Many of the historical collections in the Hunt Institute Archives contain personal correspondence, notes, recollections and opinions, which may contain language, ideas or stereotypes that are offensive or harmful to others. These collections are maintained as records of the individuals involved and do not reflect the views or values of the Hunt Institute for Botanical Documentation or those of Carnegie Mellon University.

#### *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.

MISSOURI BOTANICAL GARDEN

"SHAW'S GARDEN"

2315 TOWER GROVE AVENUE

ST. LOUIS 10, MISSOURI

PROSPECT 6-5567

June 17, 1955

Dr. Thomas H. Goodspeed  
Director of Botanical Garden  
University of California  
Berkeley, Calif.

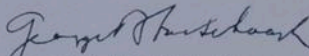
Dear Dr. Goodspeed:

One of our students here is very interested in the distribution maps in your work on *Nicotiana* and, in particular, those in Chapters 3 and 4, where there is a considerable amount of physiographic data included. It was his thought that you had had a large base map with such physiographic data prepared, upon copies of portions of which you had recorded distributions. As near as I can see by a study of the maps each one was prepared separately, presumably by Miss May Blos.

His interest in this matter is included in a general interest here in obtaining a base map covering the Americas between 40° south and 40° north. We are wondering whether you have such a map prepared by Miss Blos and if not whether you believe she might be interested in preparing such a map for us. We should appreciate knowing how we may get in touch with her.

May I take this opportunity of congratulating you upon the completion of your monograph on *Nicotiana* which is truly a beautiful piece of work.

Sincerely yours,

  
George B. Van Schaack  
Chairman, Library Committee

GBVS:C

Berkeley 4, California  
June 22, 1955

Mr. George B. Van Schaack  
Library Committee  
Missouri Botanical Garden  
St. Louis 10, Missouri

Dear Mr. Van Schaack:

Thank you for your letter of June 17. I am afraid that the maps in my Nicotiana volume that show relief may be misleading in terms of the source of physiographic detail. They were prepared under my direction by Mrs. May Elos from standard relief maps modified in certain details -- indeed, sufficiently modified so that there were no questions of copyright involved. As you say each map was separately drawn.

Mrs. Elos is not a cartographer but is an excellent artist, as witness the drawings of the species in the taxonomy section of my book. She can be addressed in my care.

Sincerely,

THG:T

MISSOURI BOTANICAL GARDEN

"SHAW'S GARDEN"

2315 TOWER GROVE AVENUE

ST. LOUIS 10, MISSOURI

PROSPECT 6-5567

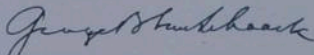
October 21, 1955

Dr. T. H. Goodspeed  
Director, Botanical Garden  
University of California  
Berkeley 4, Calif.

Dear Dr. Goodspeed:

Dr. Anderson has asked me to answer your letter of October 18 regarding the 422 specimens from the Andes which you wish to send us on exchange. We shall, of course, be most pleased to receive these specimens and shall credit them to the account of the University of California Herbarium.

Sincerely yours,



George B. Van Schaack  
Acting Curator of the  
Herbarium

GBVS:C

Berkeley 4, California  
October 18, 1955

Dr. Edgar Anderson, Director  
Missouri Botanical Garden  
St. Louis 10, Missouri

Dear Dr. Anderson:

Some years ago your Herbarium placed with us an order for a set of the collections of the University of California Botanical Garden Expeditions to the Andes, specimens to be sent as determinations were made.

You have already received the majority of the specimens set aside for you. Now, as residues of the Expedition collections are being turned over to the Herbarium here, I find that we are still holding for you 150 specimens of Expeditions I and II and 272 of Expedition IV. Of the former 70 are named, 80 unnamed; of the latter 48 are named and 224 unnamed.

In order that you may have as complete a representation of the total collections as I originally offered you I should like to send you these 422 specimens as an exchange to be credited to the University of California Herbarium.

Determination of the Fourth Expedition material was undertaken by Dr. Jose Cuatrecasas and it is anticipated that soon he will supply names for the 224 specimens of that Expedition now undetermined.

May I hear from you in this matter?

Sincerely,

THG:T

Berkeley 4, California  
October 25, 1955

Dr. George B. Van Schaack  
Acting Curator of the Herbarium  
Missouri Botanical Garden  
2315 Tower Grove Avenue  
St. Louis 10, Missouri

Dear Dr. Van Schaack:

In accordance with your letter of October 21, 1955 I  
am today sending you by parcel post three packages contain-  
ing a total of 422 specimens collected by the University of  
California Botanical Garden Expeditions to the Andes, to be  
credited to the account of the University of California  
Herbarium.

Sincerely yours,

THG:T  
c Dr. Constance,  
Herbarium

Berkeley 4, California  
March 12, 1956

Dr. George B. Van Schaack  
Acting Curator of the Herbarium  
Missouri Botanical Garden  
2315 Tower Grove Avenue  
St. Louis 10, Missouri

Dear Dr. Van Schaack:

Enclosed are a number of annotation labels corresponding to specimens in your set of the University of California Botanical Garden Expedition collections. Certain of these represent previously undetermined specimens, others are corrections or additional determinations. Some of them will doubtless be duplicates and can be discarded, because unfortunately a complete record was not kept of annotation labels placed in specimens just before sending you the recent shipment (Oct. 1955).

It would very helpful if you would send me a list of the numbers in your set which remain undetermined since in the relatively near future all Expedition records will be turned over to the Herbarium of this University. Such a list would assist me in clarifying my records and would obviously be a convenience to the Herbarium when additional annotations are to be distributed.

With all good wishes,

Sincerely,

THG:T

MISSOURI BOTANICAL GARDEN

"SHAW'S GARDEN"

2315 TOWER GROVE AVENUE

ST. LOUIS 10, MISSOURI

PROSPECT 6-5567

March 27, 1956

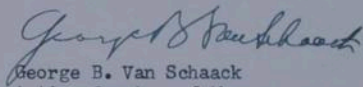
Dr. T. H. Goodspeed, Director  
Botanical Garden  
University of California  
Berkeley 4, Calif.

Dear Dr. Goodspeed:

Thank you for your letter of March 12 enclosing a group of annotation labels. Insofar as these labels referred to the shipment which you made us in October, 1955, I have had them distributed to the sheets contained in that shipment and, as you requested, I have had a list made of the sheets of that lot which still remain undetermined. A list of the numbers of these sheets is enclosed. To me it looks rather formidable, but I suppose to you it will be merely a matter of having your secretary supply us with the pertinent annotations. At least I hope the latter is the case.

With best regards.

Sincerely yours,



George B. Van Schaack  
Acting Curator of the  
Herbarium

GBVS:C

Berkeley 4, California  
June 15, 1956

Dr. George B. Van Schaack  
Acting Curator of the Herbarium  
Missouri Botanical Garden  
2315 Tower Grove Ave  
St. Louis 10, Missouri

Dear Dr. Van Schaack:

Enclosed are seventy annotation labels for inclusion in the exchange material of the Fourth University of California Botanical Garden Expedition sent to you in October, 1955.

*+ 61 additional sent separately*

Also enclosed are two recent determinations for specimens in your set of the First Expedition material and a number or corrections or additional determinations for specimens earlier named.

We are glad to have onfile your list of the unnamed numbers in your collection. It will serve as a record of the status of your set and as additional names are received corresponding annotation labels will be sent you.

With best wishes,

Sincerely,

THG:T

47  
C. Vargas C.,  
Apartado 302,  
Cuzco, Perú abril 30, 1949.

Dr. T. H. Goodspeed,  
Berkeley, California, U. S. A.,

Distinguido amigo:

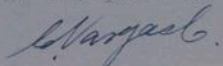
Sin noticias suyas desde hace largo tiempo, permítome dirigirle la presente, saludándole cordialmente, así como a su esposa.

Acompaño a la presente un paquetito de semillas de Nicotiana sp., que lleva el número 8132 correspondiente al material botánico colectado.

Dichas semillas fueron colectadas en el Departamento de Puno, a una altura de 4150 ms. cerca a Rosario, Prov. Carabaya. Como es la primera vez que encuentro una Nicotiana a tal altura estimo que será interesante para Ud., por lo cual me apresuro en enviarle las semillas. Creo que es una especie conocida que crece más comunmente en lugares templados, cercana a N. undulata, pero diferente en el color de la corola y algunos otros caracteres; luego N. undulata, nunca encontré a tal altura. Si desea le puedo enviar material original botánico disecado. Le agradeceré, oportunamente decirme de qué se trata.

De Lima no recibí noticia suya, a su vuelta de Tucumán, yo llegué a Lima cuando hacía pocos días Ud. había partido, esto fué el año pasado entre el 16 y el 18 de diciembre, 1948.

Esperando sus noticias, queda su amigo y s.s.



C. Vargas C.

May 25, 1949

AIR MAIL

Dr. C. Vargas C.  
Apartado 302  
Cuzco, Peru

Dear Friend:

Very many thanks for your thoughtfulness in sending the seed of a species of Nicotiana from Rosario. Immediately I sowed this seed and am very much interested to see the mature plant. If you could send to me an Herbarium specimen of the collection, it would be very important.

I am sorry that apparently you did not receive a letter which I wrote to you in Cuzco from Chile telling you that we were to spend two weeks in Lima in December. Since I knew that we did not have sufficient time to go also to Cuzco, I hoped to see you in Lima. It is too bad that you arrived there just after our departure.

Please accept again my thanks for the seed of Nicotiana sp. I hope that you will remember my desire for seeds of all species of your region which have potential ornamental importance. We now have sufficient greenhouse space so that we can grow small perennials from semi-tropical climate. As before, I will, of course, reimburse you for cost of postage and other incidental expenses.

With all good wishes from Florencia and me and hoping to hear from you again soon concerning your work, I am as ever

Cordially yours,

THG:am

César Vargas C. XV  
Apartado 302  
Cuzco - Perú.

Junta Iero., 1949.

Dr. T. H. Goodspeed,  
Berkeley, Calif., U. S. A.

Distinguido amigo:

Le recibí su atto. carta 25 de mayo último. Me alegra mucho saber que la semilla de Nicotiana sp. sea de su agrado.

Por correo ordinario estoy enviando material de herbario de la Nicotiana mencionada, con número de mi herbario Nro. 8132. Confío que le será útil. Espero sus noticias al respecto. En el mismo paquete va también una Calceolaria, 8091, colectada en Arequipa últimamente, el color de la corola es muy atractivo. Por primera vez yo he encontrado una especie de Calceolaria con corola roja. La planta, abundante en dicho paraje, recién comenzaba a florear, por tanto no conseguí semillas. Pero he encargado a un amigo conseguir las. Si Ud. desea dígame y le enviaré cuando reciba de Arequipa.

También he conseguido, aunque pocas, algunas semillas de Salvia Dombeyi, muy grande y muy hermosa. Posiblemente le enviaré algunas.

En cuanto a reembolso le rogaré, oportunamente, enviarme secantes para secar plantas, talvez unos 200, o más; pues los secantes que Ud. me obsequió ya están secos y muy viejos. Ud. sabe que este material botánico no se encuentra en Perú.

Con mis afectuosos recuerdos para su señora y Ud., esperando sus amables noticias queda como siempre su atto.

*C. Vargas C.*  
C. Vargas C.

July 12, 1949

Dr. César Vargas C.  
Apartado 302  
Cuzco, Perú

Dear César:

Many thanks for sending me the herbarium material of the species of *Nicotiana* of which you sent me seeds and the other specimens. The package has not yet arrived.

I will be glad to send you "driers" but I am not sure just what you want. Do you wish the thick gray driers or the driers made of corrugated paper. Of more importance is the question of the Peruvian aduana. In past years the aduana tried to make me pay a heavy duty on driers. Have you an official title or address which I should use, or will your address at the Universidad Cuzco be sufficient? I should also say that 200 driers will make a very large package—too large to be sent parcel post. Perhaps it will be better to send a smaller package at first, and determine what difficulty you have with the aduana.

I hope that you will send me seed of interesting ornamento. In a few days I will send you a draft for \$10.00 to cover mailing costs.

Your friends here send you best wishes.

Cordially,

THG:hm

T. H. Goodspeed

Berkeley 4, California  
July 28, 1949

Dr. Cesar Vargas C.  
Apartado 302  
Cuzco, Peru

Dear Cesar:

I am enclosing draft in amount of \$10.00 referred to  
in my letter of July 12.

Many thanks again for sending me the herbarium specimens  
of Nicotiana and Calceolaria which have just arrived.  
I am looking forward to obtaining seed of the interest-  
ing material which I told you I would like to have.

With all good wishes

Sincerely,

THG:T

## THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

Berkeley 4, California

To Dr. Cesar Vargas Dr.July 181949Address Apartado 302Cuzco, Peru

Type of Entry	Do not write in this space Account No.	Object Code

*(Not to be used for personal services—use special form for that purpose)*

Draft to cover cost of mailing seed for propagation in  
Botanical Garden

Dollars

Cents

10 00

Please send draft to T.H.Goodspeed, 2079 L3E  
to be forwarded by airmail  
Charge Botanical Garden South American Expedition  
(64275-13-4376)

*Travel libt  
7882*

Approved:

César Vargas C.  
Apartado 302  
Cuzco - Perú

Iro. de agosto, 1949.

Dr. T. H. Goodspeed,  
University of California,  
Berkeley, Calif., U. S. A.

Mui distinguido amigo:

Complacido del respucata a su atento carta de julio 12.

Acompaño a la presente semillas de las siguientes especies:

Nro. 1 = Calceolaria sp., de Chiguata, Arequipa, 2950 ms.  
crece en pedregales arenosos. Corola ROJA.

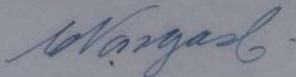
Nro. 2 = Salvia Dombeyi, de Peñas, Provincia de Urubamba,  
a 100 Kl. de Cuzco, y 3560 ms. Van pocas semillas,  
pues a causa de un insecto que ataca temprano el  
ovario es difícil encontrar semillas de esta plan-  
ta, siendo mucha suerte encontrarlas en buen estado.

Confío que a la fecha habrá llegado a su poder la Nicotiana  
enviada; espero su identificación botánica. También le envié  
hace algún tiempo mi último trabajo "Las Papas sudperuanas",  
Parte I. Sup. Co. a leerla y escribirme sus impresiones y con-  
sejos para tenerlos en cuenta para la Parte II, que estoy  
preparando. Muchas gracias.

En cuanto a los "driers" necesito "thick gray driers". Como  
Ud. sugiere, a modo de ensayo, puede enviar en dos paquetes,  
a 50 en cada uno, como "REGISTERED". Después indicaré para  
lo demás. Gracias.

El cheque por \$10.00 que me ofrece enviar, ruego mandarlo a  
Dr. Lyman B. Smith, Smithsonian Institution, Department of  
Botany, Washington, D. C. Mui agradecido.

Esperando sus noticias, rogándole presentar mis recuerdos a  
su señora esposa y amigos de botánica, queda su amigo y s.s.



U. Vargas C.

Berkeley 4, California  
August 26, 1949

Dr. Cesar Vargas C.  
Apartado 302  
Cuzco, Peru

Dear Cesar:

Thank you for the seed enclosed in your letter of August 1. I will appreciate seed of such additional species of potential ornamental interest as you are able to obtain.

The specimen of Nicotiana you sent me appears to be N. undulata but I am waiting for the plants grown here to flower before sending you a final determination.

When Part 1 of "Las Papas sudperuanas" arrives I will be happy to give you my opinion.

According to your suggestion I am sending you <sup>today</sup> a number of thick gray driers in 2 packages, registered.

I am sorry that the draft for \$10.00 was sent direct to you before I received your letter.

Some years ago you kindly gave me prints of a considerable number of your photographs. Some of them were taken in museums of huacos but others are important for vegetational studies. Each print has your number on the back. None of the prints has a legend. Therefore 1) Have you a list of the numbers which you sent me from which you could prepare a corresponding list of legends? 2) If I sent you a list of the numbers on the prints could you send me the necessary legends? or 3) Will it be necessary for me to send you the prints for identification? I am very anxious to secure the legends as soon as possible and would much appreciate an answer in this matter immediately.

All your friends here join in best wishes and congratulations upon the success of your important botanical work in Cuzco.

Cordially yours,

THG:T

C. Vargas C., apartado 302,  
Cuzco, Perú sept. 5, 1949.

Dr. T. H. Goodspeed,  
Berkeley 4, Calif., U. S. A.,

file

Distinguido amigo:

Acuso recibo de su atta. 26 del mes pasado. Muchas gracias.

Espero recibir oportunamente los "thick gray driers".

En cuanto a las fotografías cuyas copias tiene Ud. y que son tomadas por mí; me será grato enviarle las leyendas; empero para ser más exacto y seguro prefiero que envíe las mismas copias. Además en caso de ser publicadas, confío que se indicará al autor de tales.

Próximamente, a fines de este mes, debo viajar a ciudad de México para asistir a unas conferencias científicas sobre ciertas plantas cultivadas. La invitación es con pasajes y estadía pagados. Así talvez no podré contestar de inmediato a su consulta de las fotografías.

Saludando a Ud, su señora, y los amigos profesores de botánica, queda siempre a sus órdenes, su amigo y s.s.

C. Vargas C.

P.S. Próximamente enviaré a Ud. semillas de *Bomarea lycina*, la cual tiene flores ornamentales; también si encuentro, oportunamente, de *Bomarea Killipi* Vargas, que tiene flores muy grandes y hermosas.

Prof. C. Vargas C., apartado 302,  
Cuzco, Perú, dic. 26, 1949.

Dr. T. H. Soodspeed,  
University of California, at  
BERKELEY, Calif., U.S.A.

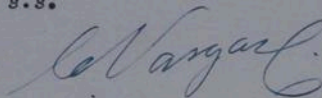
*Distinguido amigo:*

Me es grato escribirle para comunicarle que hace pocos días he recibido DOS PAQUETES, conteniendo 60 "driers". Muchas gracias. Espero que Ud. ordenará el envío del resto del material ofrecido. Encargando que escriban en la parte exterior USADO, así se facilita; además indicar que es material de OBSEQUIO.

Pronto debo salir de excursión botánica, talvez por más de tres semanas, al Departamento de Apurímac, a localidades poco o nada visitadas antes por botánicos. Entonces procuraré reunir semillas que interesen a Ud.

Espero que mi saludo botánico de Navidad enviado hace varios días haya llegado a su poder.

Deséndole toda prosperidad el AÑO NUEVO DE 1950, le saluda, así como a su esposa su amigo y s.s.



*instr. direct.*

February 2, 1950

AIR MAIL

Dr. C. Vargas C.  
Apartado 302  
Cuzco, Peru

Dear Friend:

I am glad to know that the driers arrived in good condition. Soon I will send you two more packages and follow the instructions in your letter of December 26. I am looking forward to receiving seeds from the Apurimac Expedition which I hope was successful.

We very much appreciated receiving your Christmas card and join in sending you all good wishes.

Cordially yours,

MCT:hh

March 10, 1950

AIR MAIL

Dr. C. Vargas C.  
Apartado 302  
Cuzco, Peru.

Dear Cesar:

Last August I wrote you of my desire to obtain legends for the prints of the photographs which you gave me some years ago. You kindly consented to supply these legends, and I have now prepared a list of your numbers on the photographs which are particularly important for my vegetational studies. I have left space for you to fill in the following information from correspondingly numbered prints or negatives in your file or from your notes: where each photograph was taken; at what season; what associated elements of vegetation are shown. I do not wish to send you my prints unless absolutely necessary because they are all mounted in large photograph books and removing and later remounting them would be time consuming and expensive.

I hope that the second shipment of driers, two packages sent early in February according to your suggestions, arrive in good condition and that you will find them useful.

I am looking forward to receiving from you seeds of the plants which you hoped to collect on your recent expedition.

With all good wishes from your friends here,

Sincerely,

LEGENDS NEEDED:

94-

94-2

94-3

94-4

94-5

94-6

94-7

94-8

94-9

94-10

94-11

95-1

95-2

95-3

95-4

95-5

95-6

95-7

95-8

95-9

95-10

96-1

96-2

96-3

96-4

96-5

96-6

96-7

96-9

96-10

97-1

97-2

97-3

97-4

97-5

98-1

98-2

98-3

98-4

98-5

98-6

98-7

98-8

98-9

98-10

98-11

99-1

99-2

99-3

99-4

99-5

99-6

99-7

99-8

100-101-1

100-101-2

100-101-3

100-101-4

100-101-5

100-101-6

100-101-7  
100-101-8  
100-101-9  
100-101-10  
100-101-11  
100-101-12  
100-101-13  
100-101-14  
100-101-15  
100-101-16  
100-101-17  
100-101-18  
100-101-19  
100-101-20  
100-101-21  
100-101-22  
  
102-3  
  
105-1  
  
105-2  
  
105-3  
  
105-4

105-5

105-6

105-7

105-8

105-9

105-10

105-11

105-12

106-1

106-2

106-3

106-4

106-5

106-6

106-7

106-8

106-9

106-10

106-11

106-12

108-1

108-2

108-3

108-4

108-5

108-6

108-7

108-8

109-1

109-2

109-3

109-4

109-5

109-6

109-7

109-8

109-9

109-10

109-11

109-12

110-1

110-2

110-3

110-4

110-5

110-6

110-7

110-8

110-9

110-10

110-11

110-12

110-13

111-1

111-2

111-3

111-4

111-5

111-6

111-7

111-9

111-10

111-11

112-1

112-2

112-3

112-4

112-5

112-7

112-8

112-9

112-10

113-1

113-2

113-4

113-5

113-6

113-7

113-8

113-9

113-10

113-10

114-1

114-2

114-3

114-4

114-5

114-6

114-7

114-8

114-9

114-10

114-11

115-1

115-2

115-3

115-4

115-5

115-6

115-7

115-8

115-9

115-10

115-11

117-1

117-2

117-3

117-4

117-5

117-6

117-7

117-8

118-1

118-2

118-3

118-4

118-5

118-5

118-6

118-7

119-1

119-3

119-4

119-5

119-6

119-7

119-8

119-9

119-10

120-1

120-2

120-4

120-5

120-6

121-1

121-2

121-3

121-4

121-5

121-6

121-7

121-8

121-9

121-10

121-11

121-12

122-1

122-2

122-3

122-4

122-5

122-6

122-7

122-8

122-9

122-10

122-11

122-12

123-1

123-2

123-2

123-3

123-4

123-5

123-6

123-7

123-8

123-9

123-10

123-11

124-1

124-2

124-3

124-4

124-5

124-6

124-7

124-8

124-9

125-1

125-2

125-3

125-4

125-5

125-6

125-7

125-8

126-1

126-2

126-3

126-4

126-5

126-6

126-7

126-8

126-9

126-10

126-11

126-12

127-1

127-2

127-3

127-4

127-5

127-6

127-7

127-8

127-9

127-10

127-11

Berkeley 4, California  
October 16, 1950

Dr. Cesar Vargas C.  
Apartado 302  
Cuzco, Peru

Dear Cesar:

Your recent letter to Mr. Macbride came into my hands and I want to thank you for your kind remarks concerning Mrs. Goodspeed. Both she and I regretted that we could not have done more for you when you were in Berkeley but I am glad that you have a happy remembrance of your experience here.

At the time of the terrible earthquake in Cuzco Mr. Goodspeed was very ill and I did not follow the course of events there as I would otherwise have done. Indeed, until I read your letter and saw your photographs I had no idea that the devastation had been so serious.

In your letter you suggest that an effort be made to secure assistance from North American institutions for replacing the scientific material destroyed by the earthquake, such assistance to take the form of a small contribution in money. I am sure that many will wish to be of assistance but it will I think be necessary to be very specific about the purposes for which contributions of any kind will be used. To say only "for the encouragement of scientific research in Cuzco" is not enough. For example, if you need replacement of books and periodicals in the University Library that would be something specific; similarly, if you need replacement of scientific apparatus or materials. There may be other specific needs and requirements. ~~Understandably~~ <sup>Understandably</sup> North American libraries could supply books and perhaps manufacturers of scientific material would either make

In my own case I could send you \$50.00 to permit you to make a collecting trip which would provide specimens to replace those which may have been destroyed by the understanding that you send me seeds, bulbs or cuttings of species of combined scientific and ornamental interest. Probably other botanical institutions would make donations of money for similar purposes.

Sometime ago I sent you a list of numbers of your negatives of which we have prints following your agreement to return the list with information concerning locality, species, etc. in each case. As yet I have not received this annotated list.

I hope that you will let me know how you are getting along and c upon me for any service which I can give you and the University Cuzco. All your friends here join in greetings and best wishes

Cordially,

*Act*  
C. Vargas C., apartado 302,  
Cuzco, Perú junio 19, 1951.

Sr. Dr. T. H. Goodspeed,  
Berkeley, Calif., U. S. A.

Muy recordado amigo:

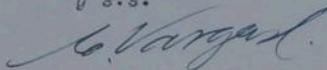
Hace tiempo que no tengo noticias tuyas, ni respuesta a la última escrita<sup>a</sup> Ud., todavía el año pasado. Temo que tal carta no haya llegado a su poder, pues esto ocurre con alguna frecuencia.

Ahora permítome escribirle para consultarle lo siguiente: La Universidad de esta ciudad, debido al terremoto del año pasado, con la ayuda del Gobierno pronto estrenará un nuevo local, aunque algo pequeño, en sus terrenos cerca a San Sebastián; siendo un CAMPUS de 18 hectareas. En tal terreno he solicitado a las autoridades universitarias dedicar UNAS CUATRO HECTAREAS para JARDIN BOTANICO. Sé que sólo aceptan dedicar UNA HECTAREA, lo cual creo muy escaso para el fin indicado.

Ud. como botánico y Director del Jardín Botánico de su Universidad conoce las necesidades de tales jardines y podría, en respuesta, con fundamentos decirme si yo tengo razón al pedir no menos de CUATRO HECTAREAS. Además Ud. conoce la flora del Sur-Perú y puede dar su opinión valiosa. Yo al recibir su amable respuesta acerca de esta consulta insistiré en pedir las CUATRO hectareas, o ver lo más conveniente. Además le suplico darme los lineamientos o esbozo general de plan de un JARDIN BOTANICO, como para esta zona. Confío en sus colaboraciones y le agradezco de antemano.

Esperando con mucho interés su respuesta a la presente le saluda cordialmente su amigo y más atto.

U. S. S.



C. Vargas C.

October 4, 1951

Dr. C. Vargas C.  
Apt. 302  
Cuzco, Peru

Dear ~~Bob~~ Friend:

I am glad that the University of Cuzco is to have a new campus and that a Jardín Botánico will be a part of it.

If the entire campus is to be only eighteen hectares, I think that four hectares for botanical garden purposes is a rather large proportion, almost one-fourth of the whole area. On the other hand, one hectare is not large enough. Why not ask for two?

The proper maintenance of a botanical garden is expensive and it is much better to have a small area in excellent condition than a large area in poor condition. Also, you can plant trees and shrubs of botanical importance on other parts of the campus and so, in effect, greatly increase the representation of species as well as beautifying the campus.

I recommend that you limit your Jardín Botánico to the most ornamental species of Peru, especially South Peru, and do not introduce exotic species, most of which will not grow normally in your climate. Your garden can have large importance for turismo, because most visitors have such interest in ornamental ~~plants~~ <sup>scenery</sup>, and that will call attention to your garden and you will get more support for it. Visiting botanists will be more interested in Peruvian plants than exotic species which they can see in many other gardens. You should specialize in all the new species you have discovered; for example, you should have all the orchids of Peru, including your new species—also all the fine fuchsias and other genera which are scientifically interesting as well as ornamental.

The arrangement of your garden should be as natural as possible. Do not make it geometrical with many small beds, but make curving paths to border larger beds, in the center of which you can grow taller plants (small trees and shrubs) with lower-growing species about them. I cannot be more specific about your plan of arrangement because I do not know whether your garden area will be flat or on a side hill or the side of a quebrada, etc.

I am going to Chile early in November for three months to assist the Chilean government in development of a Jardín Botánico Nacional near Valparaíso. I am taking one North American collector with me who will collect principally in

Dr. C. Vargas C.

- 2 -

October 4, 1951

North Chile, but may get into South Peru. Perhaps he might come to Cuzco, but that is very doubtful. I shall keep you informed of our plans.

With every good wish for the success of your project, as ever,

Your friend,

THG:am

Berkeley 4, California  
September 16, 1952

D. Cesar Vargas C.  
Director Botanical Museum  
University of Cuzco  
Cuzco, Peru

Dear Cesar:

This will introduce to you Dr. and Mrs. James A. Jenkins. He is Associate Professor of Genetics in our College of Agriculture and Associate Geneticist of our Agriculture Experiment Station.

Under a Fellowship of the Guggenheim Foundation Dr. Jenkins will spend some time in Colombia, Ecuador and Peru. I do not know during just what period he will be in Medellin but I am sure that you will enjoy meeting him and his wife.

Any courtesies that you find it possible to extend to Dr. and Mrs. Jenkins will be much appreciated.

With every good wish

Cordially,

THG:T

3  
C. V. C., casilla 79,  
Cuzco, Perú, abril 22, 1953.

Dr. T. H. Sandpiper,  
Dpto. de Botánica,  
Universidad de California,  
Berkeley, Calif., U. S. A.

Distinguido profesor y amigo:

Le saludo mediante la presente y permítale consultarle lo siguiente:

Cual sería el éxito científico y económico de una gira por su Universidad y otros de su país, proyectando películas en color, botánicas, etnobotánicas, etc.?

Actualmente estoy en la tarea de completar TRES SERIES de PELICULAS EN COLORES de 16 mm, 1, de la flora de Cuzco y Sur-Perú, más o menos 2400' de longitud; 2, Etnobotánica, Agricultura precolombina, terrazas y otros, más o menos 2400'; y 3, Plantas cultivadas y su cultivo nativo en el Sur-Perú, más o menos 2400', de longitud. Cada película incluye más o menos una hora y 1/2 de duración. Las tres series servirán para proyectar en TRES FUNCIONES o sea en tres veces diferentes. Ud. cree que esto tendría éxito intelectual y que puede pagar los gastos de viaje, etc. proyectando en diferentes lugares científicos?. Le ruego indicarme las posibilidades. Muchas gracias.

Le saluda afectuosamente su amigo y discípulo esperando sus amables noticias,



C. V. C.

May 18, 1953

Dr. C. Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Cesar:

I have been thinking about what you wrote me concerning a possible visit to the United States.

As you know my South American expeditions took a great deal of film in natural colors in Colombia, Peru, Chile, etc. From many thousands of feet of this film I selected about 3000 feet of the very best and used it in lectures. I was in competition with professional lecturers who showed film made by professional photographers in South America. Therefore, for popular lectures my film had to be superior. Only popular lectures would pay you enough to finance a visit to this country. Therefore unless your three films are really very fine in photographic technique and show scenes of popular interest you cannot hope to be successful in the visit you propose. It would also be necessary for you to be accepted by a lecture company who would arrange your lectures throughout this country. Unless you have an almost perfect speaking knowledge of English you would not be accepted by such a company.

Universities and similar institutions in this country do not pay enough for scientific lectures to finance your proposed visit. European botanists who speak good English themselves finance all transportation costs of visits to this country and hope from lectures in Universities to pay their hotel bills.

I am sorry to be so disappointing but I know that you wish me to be entirely frank.

I hope that all goes well with you and your family and that you will write me again about your botanical and other activities.

Always your friend,

THG:T

César Vargas C., casilla 79,  
Cuzco, Perú Feb. 1ro. 1955.

Dr. T. H. Goodspeed,  
Berkeley, Calif. U. S. A.

Distinguido amigo:

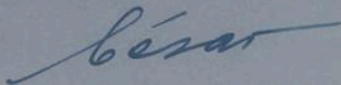
Recibí su amable tarjeta de CHRISTMAS, muchas gracias.  
Agradezco a Ud. el ofrecimiento de enviarme su monografía del géne. NICOTINA. Espero recibirlo pronto.

En cuanto a la Nicotiana colectada con Mr. Harry Johnson de ninguna manera se trata de especie nueva, pues se trata de la Nicotiana thursiflora que encontré entre Cajamarca y San Miguel; posiblemente solo localidad nueva, como había dicho. Posiblemente el Sr. Johnson entendió mal.

En el mismo viaje encontré, en el abra de Porculla, a 2300 m. N. glutinosa. Esto estodo acerca de la Nicotianas colectada por mí en compañía de Mr. Johnson.

Por lo demás siempre a sus órdenes, y me será grato recibir sus últimas noticias. Muchas gracias.

Le saluda cordialmente su amigo y s.s.



C. V. C.

Berkeley 4, California  
February 24, 1955

Dr. Cesar Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Cesar:

I was glad to have your letter of February 1 and to know that the species of Nicotiana you and Johnson collected was N. thyrsiflora and that you also collected N. glutinosa. Concerning the latter species I cannot find Porculla on the maps I have. Perhaps you can relate this station of collection to some other place.

Is it possible that there may be a little seed on your herbarium specimens of the two species which you could send me? It would be interesting to grow plants for comparison with those of these two species we have.

I hope to be again in Peru within the next year and would certainly like to be in Cuzco and to see you.

My volume on Nicotiana is still delayed in publication but must surely appear very soon. I shall take pleasure in sending you a copy.

It has been a long time since I have heard news of you personally. How is your Botanical Garden progressing? I understand that you hope to visit the United States again. If so, I will look forward to seeing you in Berkeley.

With all good wishes,

Ever your friend,

THG:T

Berkeley 4, California  
January 13, 1956

Dr. Cesar Vargas C.  
Professor of Botany and Director  
Botanical Museum  
University of Cuzco  
Cuzco, Peru

Dear Cesar:

Mr. and Mrs. Howard Ainsworth and another couple (friends of theirs) are starting from here on one of the "round South America by air" tours in about two weeks.

The Ainsworths' son John is married to my daughter Ellen (they have a 16 months old son). My son-in-law is associated with his father in an automotive manufacturing business here. The Ainsworths are grand people and I hope you can meet them.

According to schedule they arrive in Cuzco from Arequipa on February 11 at 6:15 PM and will stay at Hotel Cuzco until February 15. They have made arrangements to go to Macchu Pichu and elsewhere near Cuzco.

If you can show the Ainsworths any attention I will much appreciate it.

Recently I sent you a reprint of my paper, with Dr. Stork, on our South American expeditions. I will always remember your contributions to the success of the Second Expedition.

I have not heard from you in a long time. I hope that all is well with you and the family.

Please accept my best wishes for 1956.

Cordially,

THG:T  
copy to Mr. Ainsworth

As his title suggests Dr. Vargas is a botanist. He was born in Cuzco and is a typical "Serrano" (mountain man). His English may be a bit weak but he knows the surrounding country well and is a sweet and gentle chap.

César Vargas C., casilla 79,  
Cuzco, Perú, junio 9, 1956.

Dr. T. H. Goodspeed,

Berkeley, Calif. U. S. A.

Distinguido amigo mío:

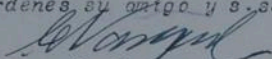
Recibí su última carta referente al Dr. George Zentmyer; quien llegó a esta ciudad el lunes pasado 4 de jun. y regresó a Lima el viernes 8. El estado de mi salud, delicado, no me permitió atenderlo debidamente. Empero vió el Herbario de Persea y le ayudamos en lo posible.

Hace poco, (few days ago), he recibido su folleto THE UNIVERSITY OF CALIFORNIA BOTANICAL GARDEN EXPEDITIONS TO THE ANDES (1935-1952). Muchas gracias.

En la página 107, (on the page 107), dice: "The Lomas of LACHAY, approximately 40 km. north of Barranca (Dept. Lima). Esto considero un error, = mistaken; pues dichas lomas, o sea de Lachay están a 40 km. de la ciudad de Lima, NO DE BARRANCA, pasando Chancay, quedando en la parte del oriente de Lachay las lomas de Granados, que yo he visitado también más de una vez, la primera con Dr. Stork, luego años después solo con otros amigos. Las lomas que visitamos con Dr. Stork cerca a Barranca, son las de Pativilca, conforme dice Ud. líneas abajo, en la misma página. Sería conveniente rectificar dicho error.

A la fecha, creo que Ud. habrá recibido mi folleto: "Las Papas Sudperuanas", II parte. Le ruego indicarme su apreciación o su opinión valiosa acerca de tal trabajo. Muchas gracias.

Siempre a sus órdenes, su amigo y s.s.

  
C. V. C.

2079 Life Sciences Building  
University of California  
Berkeley 4, California  
July 11, 1956

Dr. C. Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Friend:

Thank you for your letter of June 9 and for calling my attention to the error in my paper (with Dr. Stork). I think that if I change "north" to "south" of Barranca the description of the locality will be approximately correct.

I was happy to receive your "Las Papas Sudperuanas, II parte." You are doing a fine piece of work on a difficult and important topic.

I am sorry that your health is not good. Are you able to do any collecting, in Dept. Cuzco at least? I ask this question because I hope to obtain money to collect more Peruvian and Chilean plants for this Botanical Garden. I had thought of writing to ask you whether you could collect for me. If I obtain the money I could pay all your collecting expenses and a modest salary.

Probably I cannot come to South America again until September 1957 but if I obtain the money I would wish to have collecting begun before that time by well known and reliable botanists like you.

I send you all good wishes and kindest regards.

Cordially,

THG:T

C. V. C., casilla 79,  
Cuzco, Perú, 23-Jul., 1956.

Dr. T. H. Goodspeed,  
University of California,  
Berkeley 4, Calif., U. S. A.

Muy apreciado amigo:

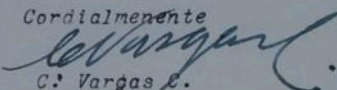
Complacido y agradecido doy respuesta a su atta. 11 de julio.

En el "error" referente a la localización exacta de las lomas de Lachay, y, que Ud. dice: "I think that if I change "north" to south" of Barranca the description of the locality will be approximately correct". Yo pienso que NO ES SUFICIENTE, ( it is not correct enough porque Barranca, queda, lo menos a 120 kil. al Norte de Lachay. Además se encuentran localidades de importancia, después de Barranca, hacia el sur, como Huacho, luego Chancay, de esta última localidad es que pasando unos pocos kilómetros queda al N.E. Lachay. Así pues me permito indicar que no es suficiente cambiar "north" to "south".-

En cuanto al trabajo de coleccionar plantas para Ud., podemos hacerlo con el auxilio de mi Asistente, quien puede, en algunos casos realizar trabajos de campo, no solo en Cuzco, sino también en Madre de Dios, que es una localidad muy importante y extensa que no está explorada botánicamente; la cual está ahora a menos de una hora por avión. En el próximo septiembre a Diciembre se puede efectuar trabajos de colección plantas con resultados satisfactorios. Espero pues sus noticias sobre el particular para hacer los planes y proyectos consiguientes.

Con este motivo, I send you all my good wishes and kind regards,

Cordialmente

  
C. Vargas L.

2079 Life Sciences Bldg.  
University of California  
Berkeley 4, California  
August 16, 1956

Dr. C. Vargas C/  
Casilla 79  
Cuzco, Peru

Dear Friend:

Many thanks for your letter of July 23.

Thank you for your further reference to the location of the lomas of Lachay. If Barranca is, as you say, "lo menos a 120 kil al norte de Lachay" my Peruvian maps would locate them between Chancay and Ancon. In Ferreyra's article on the lomas (p.14) he says "Las lomas de Lachay ----- estan situada entre Chancay y Huacho" and Chancay is certainly less than 120 km south of Barranca. This leaves me in some doubt concerning what correction I should make in my article.

From your letter I understand that your assistant, and not yourself, would be available to collect for me in the Depts. Cuzco and Madre de Dios. As you say, the latter area is relatively little known botanically.

If I decide to engage your assistant, through you, to collect for me I need the following information:

1. What will be the total cost for 3 months (October, November and December) of his collecting expenses -- i.e., transportation, food, lodging, collecting equipment?
2. What salary per month should he receive?
3. Can he, periodically, send his herbarium collections to you to complete drying and for shipment by you to me, so that he can remain in the field and not have to return often to Cuzco?
4. Are there Peruvian government restrictions on export of living plants, especially orchids, for scientific research and can you ship them to me direct from Cuzco by air?

I would expect your assistant to do the following:

1. ~~Make~~ at least 4 dried specimens, whenever possible, of every collection -- you to retain one specimen for your herbarium and all the remaining specimens to be sent to me. If only one specimen of a species is collected it will be sent to me.
2. Collect seed, in addition to herbarium specimens, of all ornamental species and particularly of Fuchsia, Begonia,

- Bromeliaceae. Also collect sporulating fronds of all ferns.
3. If they can be exported, collect living plants of all orchids and all epiphytic and climbing cacti to be sent to me by air.

It would be understood that our Herbarium here will make the determinations of all the collections and will send you a list of determinations for the one specimen of each collection which you will retain for your herbarium.

Whether I decide to employ your assistant for collecting will depend upon your answers to my questions and, particularly, whether I can secure sufficient money for the project. In other words, I am still entirely in doubt concerning the project.

With many thanks for your cooperation and in the hope that your health is improved,

Cordially,

THG:T

César Vargas C., casilla 79,  
Cuzco, Perú, sept. 25, 1956.

Dr. T. H. Goodspeed,  
University of California,  
Berkeley, Calif., U. S. A.

Muy apreciado amigo:

Contesto recién a su atta. carta August 16; pues hemos tenido que acopiar datos para el PRESUPUESTO DE UN PROYECTADO VIAJE BOTANICO al Madre de Dios por espacio de 90 días; datos que son muy difíciles de conseguir, y que hemos obtenido de alguna manera; pero de ningún modo EXACTOS, solo APROXIMADOS.

Con referencia a las lomas de Lachay diré a Ud., que el mínimo de distancia de Barranca a Lachay será, MAS O MENOS 80-90 kilómetros, pero de todas maneras no como Ud. señala en su trabajo. Las lomas de Lachay, están a poco de pasar Chancay, talvez unos 6-7 kilómetros hacia la derecha, de todos modos más cerca de Lima que de Barranca.

Viaje botánico a Madre de Dios:- Creo que los mejores meses son Noviembre, Diciembre y Enero.-

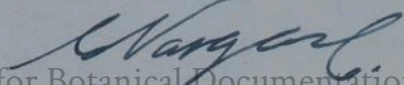
1. Haciendo un cálculo después de estudiar varios datos, creo que el total sería de unos U.S.\$1450.00.-
2. El salario de la persona que viaje, o sea el Ayudante, sería unos S/.700.00 peruanos al mes, o sea S/.2100.00 en total.-
3. Periódicamente podrá enviar, por VIA AEREA, AVION, el material colectado a Cuzco, y yo de Cuzco a los U.S.A.,
4. Por el momento no hay restricciones para el envío de plantas vivas al extranjero; sólo es necesario recabar un permiso de sanidad, lo cual es fácil para mí. Solo que el envío directo de Cuzco, a los U.S.A. es un problema, pues la Cfa. de Aviación solo transporta hasta Lima. Esa sería la dificultad.

Por lo demás sus instrucciones, en cuanto al número de ejemplares, semillas, etc. etc. será bien cumplida.

Posiblemente la suma de dinero la parecerá muy alta; pero hay que tener en cuenta que el costo de transporte, ayuda, alojamiento, alimentos, medicinas, por el peligro, etc. etc. son muy altos con respecto a Cuzco. Posiblemente será necesario en algunas ocasiones alquilar lancha a motor para explorar zonas de ríos donde no viaja corrientemente tal vehículo, entonces el precio diario es de S/.300.00. También hay que conseguir guías conocedores de la selva, el salario en Maldonado y otros lugares de Madre de Dios, es también muy alto. Necesitamos comprar medicinas, papel para coleccionar, etc. Creo que el cálculo está más o menos bien hecho.

Esperamos sus noticias como siempre para planear los viajes de una vez, saludándole muy

Cordialmente su amigo



2079 Life Sciences Building  
University of California  
Berkeley 4, California  
October 2, 1956

Dr. Cesar Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Cesar:

Many thanks for your good letter of September 25th, just received. I appreciate very much your estimates of the cost of a three months plant collecting expedition to Madre de Dios.

I understand from your letter that the total cost would be U.S.\$1450 and that this would include the salary of the collector and field expenses such as transport, assistance, food, possibly the hire of a launch, etc. Does it also include the cost of sending the living plants collected to Cuzco and from Cuzco to Lima? The dried herbarium specimens can be sent by parcel post, not air, from Cuzco to Berkeley.

I know that I would pay the cost of air transport from Lima to Berkeley and I am sure that I can arrange to have the shipments sent on rapidly from Lima.

What do you think of the possibility of finding new species of orchids in Madre de Dios? I might be able to obtain money from amateur and professional orchid growers in California if I could receive 5 to 10 good plants (each plant with at least 4 pseudobulbs) of each of a considerable number of new or little known species. When Metcalf, in 1942, collected a little way down the Rio Inambari from Sandia he found quite a number of orchids.

In addition to Madre de Dios I am interested in more collecting between the Cordillera de Carabaya and the valley of the Rio Inambari. I know that you have collected somewhat in that area and Metcalf collected near Sandia during May and June. However, the vegetation of the area is still almost unknown, I think. I am interested in comparing the flora of the altiplano of northeast Dept. Puno with ~~that~~ of the Bolivian altiplanos which are more or less well known.

Would it be possible to combine collecting in t at part of Dept. Puno with collecting in Madre de Dios? I know that such a combination would require at least another 2 months and would cost proportionately more. Would you consider such a combination and give me the approximate additional cost if you think the combination possible? I will appreciate this very much.

As I have told you my plans for collecting in Peru are for 3 to 6 months in 1957-58. I will keep you informed of my success in obtaining the necessary money upon which, of course, all my proposals depend.

Thank you, Cesar Institute for Botanical Documentation

Ever your friend,

César Vargas C., casilla 79,  
Cuzco, Perú, nov. 27, 1956.

Dr. T. H. Goodspeed,  
University of California,  
Berkeley 4, Calif. U. S. A.

Distinguido amigo:

Recién contesto a su carta de octubre pasado, pues he acopiado más datos del sector de Carabaya, vía Inambari, para realizar un presupuesto el más exacto posible, para un período de cinco meses de colección de plantas, entre Madre de Dios, y sus ríos afluentes, inclusive el Inambari.

Ahora bien en lo referente a encontrar nuevas especies de Orchidaceae, y aun otras plantas, es muy seguro que se encuentran muchas novedades, e interesantes. Pero habría que coleccionar entre marzo, abril, mayo, junio y julio; siendo los meses más apropiados entre marzo y abril.

Con una duración de cinco meses una expedición en los términos que ya ante dije a Ud. sería necesario un total aproximado de DOS MIL QUINIENTOS US.\$, para atender convenientemente los gastos, incluyendo el despacho de las plantas secas, directamente por PARCEL POST, a los U.S. A., Solo enviar plantas vivas de Cuzco, es imposible, directo a los U.S.A, la única vía posible es enviarlas a Lima; de donde otro o algún agente tendría que encargarse del redespacho a los U.S.A.

Siendo posible, entonces, la combinación de exploración botánica entre el sistema del Madre de Dios, penetrando por Cuzco, y luego por Puno, espero sus noticias y fechas con anterioridad para planear oportunamente y distribuir los viajes, etc. etc.

Con esta oportunidad me es grato saludarle nuevamente y esperar sus noticias, Su amigo y s.s.

César

2079 Life Sciences B.Eg.  
University of California  
Berkeley 4, California  
February 14, 1957

Dr. Cesar Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Cesar:

I was very glad to have your letter of November 27, 1956, concerning a collecting trip to the altiplano east of the Cordillera Carabaya and the headwaters of the Madre de Dios.

I understand that for 5 months collecting in those areas you estimate the cost at \$2500 US including the cost of parcel post shipments of the herbarium specimens to Berkeley. You would also send living plants (orchids, etc.) to Lima for shipment to Berkeley by my representative.

You also say that you would propose to have the collections made between March and July with March and April the most appropriate months.

I did not answer your letter sooner because I did not know whether I would have sufficient money to carry out your proposal. Even now I must wait for at least another two months before I can give you a final decision. This would be too late for this year according to your letter.

Therefore I think that we should go back to our first proposal which was for collecting only on the Madre de Dios. In your letter of September 25, 1956, you write that the months of November, December and January will be the best for that region and that the cost would be \$1450 US.

I will, therefore, plan on that collecting trip to begin in November of this year and continue until January and hope that I can obtain the necessary money. I will be able to give you a decision sufficiently in advance so that you can make all the necessary arrangements.

I think that Mr. Harry Johnson who collected cacti in Peru some years ago said that you had found a new species of *Nicotiana*. If this is correct I would very much like to have a little seed of this species or an herbarium specimen.

I expect to be in Peru in September for a month or two and perhaps I can come to Cuzco or we can meet in Lima. It will be very pleasant indeed to see you again after so many years.

2089 Life Sciences Bldg.  
University of California  
Berkeley 4, California  
July 24, 1957

Dr. Cesar Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Cesar:

I have not written you earlier concerning the proposed collecting expedition under your direction in the Madre de Dios region because I have up to now been hopeful that I could secure sufficient funds to make your cooperation possible.

Unfortunately the money which I have for Peruvian collecting was given primarily to make possible a survey of Cactaceae. This, of course, means collecting largely in the more arid portions of Peru. I have sent Paul C. Hutchison, Senior Botanist in this Botanical Garden, with a collecting assistant-photographer to Peru to carry on this survey. Mr. Hutchison, as you know, is a specialist in Cactaceae and was with me in Chile and Peru ~~five~~ years ago.

They will arrive in Lima on July 26 to receive a truck sent by Grace Line. In this truck they hope to cover the areas of cactus distribution and will remain in Peru until November or December. Perhaps they will come to Cuzco and if so Mr. Hutchison will, of course, see you.

Mrs. Goodspeed and I arrive in Lima October 15 to remain in Peru for a month or six weeks. I hope that we will be able to come to Cuzco and it would be a great pleasure to see you there. If we are not able to go to Cuzco I hope that you may be in Lima during our stay there so that we could meet.

I have not given up the hope that at some time it will be possible to accept your cooperation and make the expedition to the Madre de Dios.

Looking forward to the possibility of seeing you in the not too distant future and with every good wish,

Cordially,

THG:T

B-68-937.

César Vargas C.,  
Castilla 79,  
Cuzco, Perú,  
Sept. 11, 1957.

Dr. T. H. Goadspeed,  
University of California,  
Berkeley, Calif., U. S. A.

Distinguido amigo:

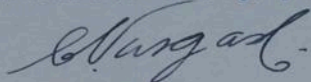
Muy agradecido por la atenta carta suya del  
24 de julio pasado.

He anotado que Mr. Paul C. Hutchinson está via-  
jando por el N. del Perú, coleccionando Cactaceae.  
Confío que hacia noviembre llegará a Cuzco.

A Mr. Hutchinson, por sugerencia del Dr. M. Cár-  
denas de Cochabamba, Bolivia, le envié hace  
tiempo varios ejemplares de herbario de la mayor  
parte de mis cactus de la región; pero nunca he  
recibido noticia de él. Por consiguiente estoy  
preocupado si tal paquete de cactus recibió o  
no dicho Sr. Hutchinson.

También anoto que Mrs. Goadspeed y Ud. llegarán  
a Lima hacia el 15 de octubre próximo. Me será  
muy grato y satisfactorio volver a ver a Ud. en  
Perú, y ojalá visite Ud. el Cuzco otra vez, ya  
que para mí será imposible estar en Lima para tal  
ocasión.

Le saluda cordialmente su amigo y s.s.



C. V. C.

Casilla 70  
Cuzco, Peru

13 September 1957

Much appreciated and distinguished friend:

I take great pleasure in acknowledging your letter of last July 15. Many thanks for your remembrance.

Also it is a satisfaction forme to advise you that by "ordinary mail" I am sending you a small packet containing only two species of Umbelliferae, although collected lately. I trust that said material can be of utility for your studies of said family. Always when I am in the botanical field I shall dedicate special attention to the Umbelliferae for you.

At this time Mr. Paul Hutchison should be traveling in the north of Peru; I hope to see him one day in Cuzco. But this botanist never has written me directly; only I have notices of his trip through you, Dr. Goodspeed, and Dr. M. Cardenas, of Cochabamba. This last friend and colleague wrote me that I should show my Cacti of the herbarium to Mr. Hutchison, which I did some months ago. I believe that the packet should have arrived at Berkeley before Mr. Hutchison's trip to Peru, but I have never received any acknowledgment of it; this would not cease to worry me except that it consists of original Cacti of my herbarium. Could you do me the great favor of seeing about the matter? Many thanks.

Also I have direct news of Dr. Goodspeed, whom it would give me great pleasure to see in Cuzco.

I pray that you greet cordially your wife and son and receive my best regards, your S. S.,

C. Vargas C.

September 24, 1957

Dr. Cesar Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Cesar:

I am happy to report that your herbarium specimens sent to Mr. Paul C. Hutchison at the request of Dr. Cardenas have arrived.

They apparently were delayed in transit and reached the Botanical Garden just as he had departed for Peru in July. Unfortunately, I was not informed or acknowledgment of your kind cooperation would at once have been made.

If you have no objection the specimens will be held here until Hutchison returns late in December.

I hope that we may be in Cuzco during our six weeks in Peru. Certainly Hutchison will be there and is looking forward to the privilege of meeting you and of seeing your collections. I will very much appreciate any advice and assistance which you or your assistants may be able to give him during his collecting in the Cuzco area.

With every good wish,

Cordially,

THG:T

C. Vargas C., casilla 79,  
Cuzco, Perú, agosto 14, 1958.

Dr. T. H. Godspeed,  
L. Bldg, University of California,  
BERKELEY, California, U. S. A.

Muy apreciado amigo:

No tengo respuesta suya a mi última carta escrita a Ud, hace varias semanas.

Con motivo de haber encontrado un amigo FARMACOLOGO, del Medical Center, de la Universidad de California, en Los Angeles, le escribo la presente para avisarle que con este amigo, POR VIA MARITIMA, estoy enviando a Ud. DOS ROLLOS de películas, each one 800', que espero reciba Ud. en orden. También con este amigo, personalmente, envío a Ud. un rollo película de 100', que tomé de Mr. Hutchison, y luego de Ud. en Pfsaj. Después de la copia correspondiente ruego devolver tales películas, todas, mediante balija del servicio diplomático; pues el funcionario con quien hable, y que avisé a Ud., me dijo que esto sí podían hacer; devolverlo como EDUCATIONAL MATTER, por balija aérea diplomática, en Lima reciben y redepachan a Cuzco. Muchas gracias.

Espero sus noticias acerca de una posible beca Gugenheim. Indiqué a Ud. que podía interesarme si es que ME CONCEDEN DICHA BECA POR SEIS meses, en lugar de doce meses, conforme han concedido al Dr. Rowe, Prof. de Arqueología de su Universidad, ( la suya), quien hace poco ha estado aquí en Cuzco, incluso con su familia. Yo también desearía una beca así, por 6 meses y pudiendo visitar los USA., con mi Señora, a favor de la misma beca, puesto que estaré solo 6 meses. Trabajaré en la preparación del grupo Tubífero del género Solanum, para "Flora of Peru", conforme me ha propuesto Mr. F. J. Macbride.

Le saludo cordialmente, así como a Sra. Godspeed, y ruego favorecerme con sus noticias sobre estos asuntos importantes. Siempre su amigo y s.a.



Dept. of Botany  
University of California  
Berkeley 4, California

Dr. C. Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Cesar:

Many thanks for your letter of August 14. I have not replied earlier because I was awaiting the arrival of the two rolls of 800 feet each which you said were sent to me, por via maritima, by the pharmacologist of the University of California Medical Center in Los Angeles. As yet only the 100 foot roll, to which you also refer, has arrived. I do not wish to delay longer acknowledgement of your letter and the receipt of the 100 foot roll. I hope that soon the two 800 foot rolls will arrive.

As you request I will return your film via the diplomatic air pouch but I think that it will be necessary to arrange in advance with Washington for such shipment.

I am enclosing copy of a letter which I have written to Dr. Henry Allen Moe, Guggenheim Foundation, which is self-explanatory. I believe that your suggestion of a twelve months beca on which you would remain in the U.S.A. for only six months -- thus providing for your wife's visit -- is not a customary arrangement by the Foundation. However, it is customary for the Foundation to grant a beca with sufficient funds to permit bringing a member of the f family. Perhaps, however, this is done only when the Fellow plans to remain abroad for twelve months.

You will probably receive an application form from Dr. Moe. In filling out this application it will be very important to state clearly, but briefly, the significance of the problem on which you will work in U.S.A. herbaria. It will not be enough to say that Macbride has asked you to prepare a section of the "Flora of Peru." You should also indicate the relation of your proposed study to taxonomic problems in general and to the taxonomy of the genus Solanum in particular.

When I receive the two 800 foot rolls I will arite you immediately.

We join in every good wish for you and your Senora and send many thanks, again, for all your and her kindness to us in Cuzco a year ago.

Cordially,

THG:T

B-84-958.

César Vargas C.,  
Castilla 79,  
Cuzco, Perú, nov. 4, 1958.

Dr. T. H. Goodspeed,  
Berkeley, Calif., U. S. A.

Muy distinguido amigo:

Me complace contestar a sus attas. 4 y 14 de octubre.  
Muchas gracias por ambas cartas.

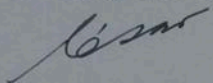
Me alegra que haya recibido las películas enviadas mediante el Dr. Nedergaard, de Los Angeles. Ruego a Ud. se sirva noticias sobre la proyección de las películas; si gustó o no. Did you enjoy my botanical films and the 100' one of your's?. I should like to receive notices about this matter.

Muchas gracias también por su interés en obtener para mí una beca Guggenheim. I have received the application form many days ago From Dr. Moe.

Many thanks for your saludos for me and my Señora, and I hope to get more notices from you.

With kind regards and best wishes for you and your Señora, I am,

Cordially yours,



Have in  
business about  
Peru. 11/11/58

Dear Caser:—

Thank you for yours of Nov 4 received  
yesterday.

The 100' film showing Paul and ourselves  
at Pisco was fine. The two 800' films were also  
very good and I have had 1300' feet duplicated.

Especially I liked the parts which  
showed the quinoa in various colors. The views of  
barwiting and stoneling grain were excellent and  
most interesting. I am certainly very much  
obliged to you for letting me see some splendid  
film & permitting me to have duplicates made.

My relations

Mr. & Mrs. H. A. <sup>Wright</sup> S. F. for Callao on the  
Grace Line "Sta Juana". Their son Jim is the  
husband of my daughter Ellen. The A's are  
carrying your 2 800' films. The A's will arrive  
Callao about Dec. 5 and will stay at Hotel  
Bolivar Lima for about 2 weeks. Mr. A is a  
~~not~~ mfg. of special type camions and with  
him on the staff are some of stoneling camions  
to be used in Peruvian agric.

The A's are carrying your 2 800' films and,  
in addition, 2 100' rolls of 16 mm Kodachrome as a gift to you  
from us. I have told them that I ~~would~~ <sup>would</sup> ask

A little  
letter

To Paraga to get the packaged film from them  
~~the~~ and arrange to have it delivered to you.  
Probably he will know someone from Lima  
to Cayce who will take it to you. I thought that  
this would be the safest way to return your  
film. I will write to Paulo about this matter.

I hope that you have sent your  
applic. for a G. Fellowship to Dr. Moore. As I  
told you I will be very glad to support your  
applic.

Very many thanks, Cesar, for your  
kindness in sending your films. I hope that  
they are returned safely to you.

With very good wish to you & your family

Good lord

B-24-258.

arb

C. V. C., casilla 79,  
Cuzco, Perú nov. 22, 1938.

Vargas

Dr. T. H. Goodspeed,  
Berkeley, Calif., U. S. A.

Querido amigo:

Contesto a su amable carta 11 de nov. Muchas  
gracias por sus noticias acerca de los FILMS

enviados. Desearía que, siguiendo una sugerencia  
mía, se pasará mis películas, ( las copias), en  
el Auditorium de "International House", como un  
recuerdo y homenaje a dicha casa donde pasé va-  
rias veces, durante mi estadía en la Universidad  
de California. Como un recuerdo mío. Gracias.

Mañana debo viajar a Santiago, Chile, invitado  
a una Reunión de Fitotecnistas, entre ellos de  
papas, estaré hasta el 7 de diciembre próximo;  
así a mi regreso a Lima, recogeré mis películas  
de donde Pancho. Muchas gracias.

También gracias por el envío de TWO ROLLS of  
Kodachrome de 100' en obsequio para mí.

Mi aplicación estoy enviando a Dr. Moe, de la  
Guppenheim, tal vez tenga suerte. Gracias.

Si pudiera Ud. ordenar, para mí, un juego de PHI-  
ZOMES de IRIS, para mi jardín, las últimas nove-  
dades son muy lindas. Si las manda, en paquete co-  
mo obsequio, sin indicar el COSTO ALTO, pues el  
precio de TAX de importación sería muy fuerte a-  
hora que todo cobran un US.\$.

Muchos saludos para Ud. y su Sra. y otros amigos  
como Paul, que no dice nada desde que se fue del  
Perú.

Afectuosamente suyo

*C. V. C.*

March 17, 1959

Dr. C. Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Dr. Vargas:

At Dr. Goodspeed's request we have prepared to send to you a shipment of rhizomes of *Iris*. We find that it is necessary to have from you an import permit number under which you can receive this shipment. Since Dr. Goodspeed is away from Berkeley temporarily, we are writing to request that you send us this import permit number as soon as possible. When it is received we will send you the *Iris* immediately by air express.

Yours sincerely,

(Mrs) M. Thompson, Secretary

B-44-959.

César Vargas C.,  
Casilla 79,  
Cuzco, Perú,  
October 29, 1959.

Dr. T. H. Goodspeed,  
Berkeley, Calif, U. S. A.

Dear Doctor Goodspeed:

I have at hand your letter of October 20, many thanks.

The Iris package you sent me, via surface parcel post has not yet arrived. But I expect in few days more.

I would like to have some notices from Paul about the package of two species of Cactus I sent him many weeks ago.

Now, as I said Paul, I have a new position at University of Cuzco, as a Vice-Rector; this means the second ruler of the University; after only the Rector or President. I am sure this is good notice for you. Any way this means also, for me, an administration position that takes my time.

By now I am preparing a book for coming year, something like this: 25 years of Plant Hunting in Peru. I hope to finish the book for coming november.

Mrs. Vargas and I joins ours good greetings for all you.

Hoping to hear from you when you have time to write me, I should like to have some of your good ideas about the book I am writing for next year.

Cordially yours,



C. V. C.

University of California  
Department of Botany  
Berkeley 4, California

November 4, 1959

Dr. Cesar Vargas C.  
Casilla 79  
Cuzco, Peru

Dear Cesar,

I was happy to receive yours of October 29 and to know that you are now Vice-Rector of the University. Please accept my warmest congratulations.

Some time ago Paul told me that he had received the cacti you sent him and that they were exactly what he needed. He is very busy preparing for his six months in Europe, but I am sure that he will write you soon.

Concerning your proposed book on plant hunting in Peru, will you refer only to your botanical collections or to those of others also? If the latter, you will find references to all places of collection by our expeditions up to the last one (1957-58) in the paper by Stork and myself of which I am sure that I sent you a copy. I think that I can make the record complete by preparing a list of the Hutchison and Marshall collecting localities during the last expedition.

I believe that it would be a great service to botanists if you mentioned the work of others in Peru. Perhaps you might simply give a list, at the end of the book, of all those who have made collections with localities and approximate dates. This would require some research and correspondence but would much increase the value of the book as a scientific contribution.

We join in all good wishes to you and your Señora.

Very cordially,

THG/byh

T. H. Goodspeed

P.S.

I hope that before another year the second (much revised) edition of my "Plant Hunters in the Andes" will be published.

May 20, 1949

Professor T. H. Goodspeed  
2079 Life Sciences Building  
Campus

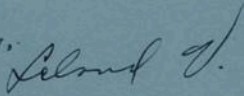
Dear Harper:

This seems to have grown into a long and cumbersome report, but once I got started, I thought I might as well say everything I know about it. Perhaps it will be helpful.

You will note I have sent copies to Mr. Oliver and to Emanuel Fritz. I am enclosing an extra copy in case you should want to pass one on to someone else - Mr. Hyde, perhaps.

I certainly enjoyed the trip and the opportunity to see the Grove on Tuesday.

Sincerely,

  
H. L. Vaughan

HLV:p  
Encl.

May 20, 1949

Professor T. H. Goodspeed  
2079 Life Sciences Building  
Campus

Dear Professor Goodspeed:

This is in reply to your request for my opinion concerning a permanent treatment of the general stage area at Bohemian Grove.

I believe that we all agree on the aims of the treatment, but I will repeat them to make sure. They are:

1. Protection of the trees against erosion damage, and damage of all sorts.
2. Retention of the most natural appearance possible on the slope.
3. Development of the best system of circulation and flat spaces for use in the staging of plays, etc.
  - a. Ramps, steps, and walks to be comfortable and safe, so that passage on them interferes with the histrionics and singing as little as possible.
  - b. Platforms and walks to be so arranged that little temporary construction is necessary, but so built that temporary construction can be attached to permanent construction easily, and removed easily, without damage to slope or vegetation.

If we agree on these aims, my convictions and recommendations are few and simple. They are that

1. The location of ramps, steps, platforms and walks must remain almost exactly as it is, though some minor revisions in widths, height of risers on steps, etc., will be possible and desirable.
2. The permanent construction should be done with native stone of the best and most natural character available. This stone should be laid up with some mortar at the base for stability, and as an anchor for temporary construction, but the greater part of it should be laid with soil, and sizable, well arranged planting pockets.

May 20, 1949  
Bohemian Grove

3. The work should be done in late summer or early fall that the disturbed planting and new planting be handled at its most dormant period, and that it may receive the winter rains as soon after completion of the job as possible.
4. The success of the operation will depend on three things:
  1. Skillful design in a few things, such as the location of a few large rocks and rock ledges, choice and location of plant materials, and other details.
  2. Availability and selection of a good brown sandstone in a variety of sizes, and preferably from an exposed location where it is already weathered.
  3. Availability of skilled labor. In this case, that means men who have sympathy and feeling for natural beauty, and are skillful in protecting it. (There are some among our gardeners, and no doubt some on the Grove crew.)

On this problem, the choice and availability of materials, and the quality of the workmanship in the actual construction, is more important to success than it is in most landscape jobs.

I know that you also want my opinion as to how the job should be handled, and what part a Landscape Architect should play in it. As I see it, it is far more a job of supervision on the ground than a job of planning on paper. The paper work involved in getting the job done is only that of drawing typical details of wall foundation, anchors, steps, etc. Plus figures on quantity of stone and other materials. The rest is a matter of selection of stone and plant materials, the employment or choice from the crew of a couple of key men, and close supervision and direction of the work.

The most difficult job of all for the Landscape Architect is that of showing the Grove committee, staging committee, and all others who will want to know, and must know, what is going to be done. It is an extremely difficult thing to draw (I have no draftsmen who can draw that stage area as I would want it to look; and, if he did, it would be of little value, for his drawing would show it from one location only, and in the final construction the Landscape Architect would be forced to make changes to accommodate his material.

Has the Club ever entertained the idea of making a scale model of the stage area for use in planning productions? If

Professor T. H. Goodspeed - 3

May 20, 1949  
Bohemian Grove

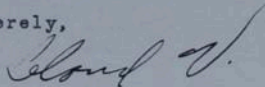
they should think, as I do, that such a model would be valuable for that purpose, now would certainly be the time to make it, for it would be invaluable in discussions about the construction and planting.

I think it is essential that a skillful Landscape Architect be retained. However, you know as well as I do that Landscape Architects vary greatly in their sympathy for, and understanding of, the natural landscape, and in their ability to preserve or reproduce it. Thus, I think it is a problem to find one who is capable, and who can spare the time to select stone and plants, and superintend the work. Appealing and interesting as it is to me, I frankly do not see how I could spare the time in the late summer or early fall to do it. I travel with my students for most of the first summer session; then there is accumulated work and budget work to do. A short vacation, and the work preparatory to a new semester. Once school starts, I seem to be tied to my office most of the time.

It has occurred to me that Ernest Higgins might be the ideal man for the job. Ernest is the man who organized that, as you put it quite correctly, amazing dinner to discuss the State Arboretum. He is an accomplished practical horticulturist, with great sympathy for the natural landscape. He has worked for many years as a Landscape Contractor, and has done natural stonework of all kinds. Ernest would have trouble with the few drawings necessary, and probably with the consultations needed. Perhaps I could supply that if the Club should like to enter into such an arrangement.

In any event, I would be very happy to go a little further with the problem, and give what advice I can. I will try to see Mr. Oliver next week to look at the pictures and maps available to check the opinions I have offered above. I hope that Mr. Oliver will not make a great effort to arrange a visit for me during the encampment, for much as I would appreciate and enjoy it, I do not think it necessary to see the area in action to work with the problem, and as I look at my calendar for the summer, it is possible that I would have to cancel it at the last minute.

Sincerely,



H. L. Vaughan

HLV:p

cc: Mr. Roland Oliver  
Professor Emanuel Fritz

September 23, 1949

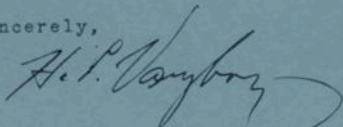
Dr. T. Harper Goodspeed  
2079 Life Sciences Building  
Campus

Dear Harper:

What with giving advice of questionaable value to students, and first week of school, I have neglected to send you a copy of this report to the Grove Committee, and the preliminary plan. I sent it to them some time ago, and of course the original report contained a number of photographs and a sketch or two to which I refer in the report.

I sent a copy to Mr. Oliver, and had a very nice reply from him. I have also shown it to Emanuel Fritz. As yet I have had no reply from the Grove Committee, but will undoubtedly hear from them one of these days.

Sincerely,



H. L. Vaughan

HLV:p  
Encl.

*Some formal suggestions as  
put on 50 study lists today  
L.*

C  
O  
P  
Y

September 7, 1949

Grove Committee  
Bohemian Club  
Post and Taylor  
San Francisco, California

Gentlemen:

More time has passed between my delightful visit to the Grove during the encampment, and the date of this report, than I had anticipated. However, the lapse of time has not dulled my recollection of the area, its use and problems; but has, on the contrary, given me time to return to the Grove to correct my drawing of the stage area, and put in a few hours of further study on the ground.

On May 20th, I addressed a short report to Dr. T.H. Goodspeed, which expressed some thoughts, and made some recommendations. With continued study, I have found no reason to change those recommendations, and I enclose a copy of that report.

The drawing, photos, and sketches which accompany this letter, show my recommendations as graphically as I can portray them.

I also include some observations made during the encampment, and on my last visit to the Grove, August 19, and I have attempted a cost estimate and recommendations concerning the execution of the work.

The drawing, with photographs and sketches, will provide a basis for discussion, and I hope that we may meet in the near future to discuss the problem further.

Sincerely,

H. L. Vaughan

HLV:p

C  
O  
P  
Y

May 20, 1949

Professor T. H. Goodspeed  
2079 Life Sciences Building  
Campus

Dear Professor Goodspeed:

This is in reply to your request for my opinion concerning a permanent treatment of the general stage area at Bohemian Grove.

I believe that we all agree on the aims of the treatment, but I will repeat them to make sure. They are:

1. Protection of the trees against erosion damage, and damage of all sorts.
2. Retention of the most natural appearance possible on the slope.
3. Development of the best system of circulation and, flat spaces for use in the staging of plays, etc.
  - a. Ramps, steps, and walks to be comfortable and safe, so that passage on them interferes with the histrionics and singing as little as possible.
  - b. Platforms and walks to be so arranged that little temporary construction is necessary, but so built that temporary construction can be attached to permanent construction easily, and removed easily, without damage to slope or vegetation.

If we agree on these aims, my convictions and recommendations are few and simple. They are that

1. The location of ramps, steps, platforms and walks must remain almost exactly as it is, though some minor revisions in widths, height of risers on steps, etc., will be possible and desirable.
2. The permanent construction should be done with native stone of the best and most natural character available. This stone should be laid up with some mortar at the base for stability, and as an anchor for temporary construction, but the greater part of it should be laid with soil and sizable, well arranged planting pockets.

May 20, 1949  
Bohemian Grove

3. The work should be done in late summer or early fall that the disturbed planting and new planting be handled at its most dormant period, and that it may receive the winter rains as soon after completion of the job as possible.
4. The success of the operation will depend on three things:
  1. Skillful design in a few things, such as the location of a few large rocks and rock ledges, choice and location of plant materials, and other details.
  2. Availability and selection of a good brown sandstone in a variety of sizes, and preferably from an exposed location where it is already weathered.
  3. Availability of skilled labor. In this case, that means men who have sympathy and feeling for natural beauty, and are skillful in protecting it. (There are some among our gardeners, and no doubt some on the Grove crew.)

On this problem, the choice and availability of materials, and the quality of the workmanship in the actual construction, is more important to success than it is in most landscape jobs.

I know that you also want my opinion as to how the job should be handled, and what part a Landscape Architect should play in it. As I see it, it is far more a job of supervision on the ground than a job of planning on paper. The paper work involved in getting the job done is only that of drawing typical details of wall foundation, anchors, steps, etc. Plus figures on quantity of stone and other materials. The rest is a matter of selection of stone and plant materials, the employment or choice from the crew of a couple of key men, and close supervision and direction of the work.

The most difficult job of all for the Landscape Architect is that of showing the Grove committee, staging committee, and all others who will want to know, and must know, what is going to be done. It is an extremely difficult thing to draw (I have no draftsmen who can draw that stage area as I would want it to look; and, if he did, it would be of little value, for his drawing would show it from one location only, and in the final construction the Landscape Architect would be forced to make changes to accommodate his material.

#### OBSERVATIONS MADE DURING, AND SINCE, THE RE-CAMPMENT

I am convinced that a Grove play is very dependent upon the natural grandeur and quality of the area on which it is staged. Thus everything must be done to retain it. Any permanent construction or planting must not detract from the impressive quality, but enhance it if possible.

The things which make the area impressive are the magnificence of the trees, the play of light and shade, and the feeling of distance and space. In the building of rock walls and steps, we must not lose that feeling. I believe that we can increase it. In support of that statement I call attention to the photos of the 1915 play in which the trails show clearly, and in which there is a much better feeling of distance and space than in later years when all the trails were obscured by a rather monotonous planting of ferns.

We must be very careful about the size of our various elements. A heavy rock wall composed of large rocks, and located back near the Three Graces, would tend to bring the rear forward and destroy the perspective, as one wooden bulkhead does to some extent now. A wall in that location must be made of smaller rocks, and be heavily planted. To me, some of the natural grandeur and perspective is lost in the 1922 production, and to some extent in the 1927, by the size and height of architectural appurtenances, which means to me that we must be very careful of the size and height of walls and steps.

Shadows and receding light are one of the greatest aids to a feeling of depth and distance. I believe we can aid directors of Grove Plays in this respect by more varied planting of native plants in the area, and by judicious thinning in the background.

Late on Friday night, Dr. Goodspeed and I spent some time in the auditorium. At that time the work lights were on in the area, and in the background. It was one of the most impressive sights I have ever seen, for in spite of the heavy growth in the background, there was a feeling of unfathomable distance and mystery, which was not attained on Saturday night. This is in no way a criticism of the production, for it was so beautiful and impressive that I feel no criticism could be justified; it is simply a statement to show that I believe some thinning and more judicious planting would permit shadows in the area, and light in the background, even with the necessary bright lights. The photos of 1925 or 1927 contrasted with that of 1922 will support my contention that shadow is necessary.

#### ESTIMATE OF COST AND EXECUTION OF WORK

I am satisfied that the stone available on the property can be used successfully, and that some of the men already employed at the Grove are capable of doing the work under supervision. I

believe that approximately 766 face feet of rough wall will eventually be required. These walls will be heavy at the bottom and light at the top; but we may assume about 900 cubic feet, or about 60 tons of rock. If this rock were to be purchased in the bay area, and laid with union stone masons, the cost would be about \$1125. It seems reasonable to think that this cost can be greatly reduced by using the native stone and Grove labor. I believe that approximately 288 linear feet of step risers, and 288 square feet of tread will eventually be necessary. In the bay area I would estimate the cost at about \$576. Due to the nature of the available stone, and the inexperience of the workmen, I doubt that we can materially reduce this figure. In fact, I believe that the stone will be so difficult to work into step risers that risers in brown concrete would be much safer, and easier to make. There is, in addition to the steps and rough walls, some necessary work in wood, and some incidental planting, which should be covered by an expenditure of \$300.

In conclusion, may I say that I believe about half of this work is a necessity in the immediate future; the rest can be done over a period of several years. May I also point out that costs on this work are very difficult to figure. The figures quoted above must be taken as a very rough estimate, which will be greatly affected by three things:

1. How easily the stone may be loaded and placed on the site.
2. How efficiently the labor can handle it.
3. The kind of supervision the work can be given.

April 17, 1950

Dr. H. Leland Vaughn  
Div. of Landscape Design

Dear Leland:

For a number of years I have been closely in touch with the University of Tucuman, Argentina, which is one of the most forward looking educational institutions in South America. Among projects under way is the so-called Instituto de Sociografia y Planeacion which is concerned with regional planning from various points of view. Recently I have received a publication of this Instituto entitled Planificacion Integral del Valle de Amaicha which contains an English summary. I believe that there have been earlier publications and that more are anticipated.

Although the Instituto at Tucuman is particularly concerned with the proper development of large and usually rural areas it occurs to me that the new Department here concerned with city and other planning, and of which I believe you are a member, might be interested in obtaining the publications above referred to. I am sure that a request made to Dr. Horacion Descole, Rector, University of Tucuman, would receive prompt attention.

Cordially,

THG:F

January 4, 1951

Dr. Thomas H. Goodspeed  
2079 Life Sciences Bldg.  
Campus

*Receipt Letter Prof. H. L. Vaughan dated Jan 4 1951*

Re: Promotion of  
R. Burton Litton, Jr.  
to Assistant Professor  
of Landscape Architecture

Dear Dr. Goodspeed:

I am happy to give you more information about Mr. Litton's teaching.

In this Division of the College of Agriculture, design in some form is the primary teaching consideration. We require our students to carry work in formal landscape design courses over a period of 5 semesters minimum; landscape construction, 2 semesters; plant materials and planting design, 4 semesters. Almost all of our teaching is by the problem method with individual criticism and discussion between individual students and instructor. In addition to our formal courses, we offer a considerable amount of specialized problem work to advanced undergraduates. It has been generally agreed, after much study in the leading schools of Landscape Architecture and Architecture, that students in each design course should have a minimum of one hour per week of individual criticism from an instructor. To meet this standard, and at the same time give formal lectures, group discussions, conduct labs, etc., we have always attempted to build a most versatile staff, and make it possible for the student to get criticism from any staff member.

I give this brief resume of teaching method primarily to show that the regularly scheduled work for an instructor in this Division is not necessarily an indication of the amount of teaching he does; and in this case it is not, for I have had a heavy burden of work on my shoulders over the past three years, and I have leaned heavily upon assistance from Mr. Litton in my own regularly scheduled courses, and with individual students in courses 199 and 201. I have been particularly impressed with his versatility and his willingness and ability to do the necessary study and preparation to teach a variety of work.

In 1948-49 he carried Professor Shepherd's work in Plant Materials and Planting Design, Landscape Architecture 112A-B and 113A-B. In 1949-50 he taught Landscape Architecture 101A, 1B, assisted in Landscape Construction 111A-B, and worked with six students in 199. This fall semester, 1950-51, he has taught Landscape Architecture 114A, 2, and worked with 3 students in 199; and again he has shared the criticism in my courses 101A and 1A. This spring semester, 1951, he will teach Landscape Architecture 1B and 101B. This I consider a full and heavy teaching load in itself; with approximately 20 students in 1B

Dr. Thomas H. Goodspeed - 2

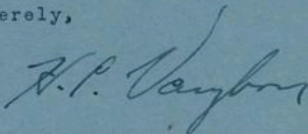
Re: Promotion of  
R. Burton Litton, Jr.  
to Assistant Professor  
of Landscape Architecture

January 4, 1951

and 18 in 101B, it will be impossible for Litton to meet the standard of 1 hour per week with each student; and, in view of the fact that I will depend upon him for assistance in 114B and 116, it will be an overload to say the least.

I can say confidentially to you that my desire to keep Litton, and advance him as he merits it, is part of a long range plan. Professor Shepherd will be retiring in less than ten years. It is very difficult to find a man who can teach plant materials with the proper design emphasis, and it requires a considerable amount of experience to do it. Litton is the only Landscape Architect of my acquaintance who seems to have all the prerequisites, and a desire to do the job.

Sincerely,



H. L. Vaughan  
Division of Landscape Architecture

HLV:p

October 5, 1954

T. H. Goodspeed, Director  
Botanical Garden  
2079 Life Sciences Bldg.  
Campus

Dear Dr. Goodspeed:

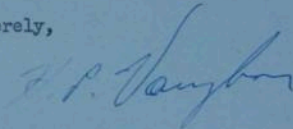
This is just a note to reaffirm the interest of the Department of Landscape Architecture in the development of the Botanic Garden.

For many years, we have depended upon the Garden as a laboratory for the study of certain plant materials. As time goes on, and certain plants disappear from the campus, we come to depending upon it more and more. We are delighted with the prospect of the continued development of an area devoted to native plants.

It is also my hope that we can utilize the garden in areas of instruction other than that of plant materials by studying parts of it, and the whole of it, in relation to design, circulation, construction, etc.

The purpose of this note is not only to reaffirm our interest, but also to say that we are anxious to cooperate in the planning and development of the Botanic Garden.

Sincerely,



H. L. Vaughan  
Department of Landscape Architecture

HLV:p

May 8, 1957

Dr. Henry Vaux, Dean  
School of Forestry  
Campus

Dear Dr. Vaux:

May I refer to you a question recently asked in a letter from South America?

Ing. Cortorelli, an old Argentine friend of mine, has published a book on the indigenous species of Argentina used for lumber. It has been reviewed in Forest Science, vol. 2, #4, p.285, Dec. 1956. I think that Cortorelli is now head of the Argentine Forest Service.

He wants to know whether there might be sufficient U.S. interest in his book to find a U.S. publisher for an English translation. I presume that he would prepare the translation.

In case the review is sufficiently in detail would you be good enough to give me a reaction to his question?

With best wishes,

Sincerely,

THG:T

June 21, 1957

Professor H. J. Vaux  
Dean, School of Forestry  
Campus

Dear Professor Vaux:

Please accept my thanks for your reaction to the possible interest in this country of a translation of Cortorelli's "Maderas y Bosques Argentinos".

It and your suggestion that the proposal might be discussed with Dean Garrat will, I am sure, be much appreciated by my friend Cortorelli.

With best wishes,

Sincerely,

THG:T

Prof. J. Venkateswarlu,  
Prof. & Head of the Dept.,  
of Botany,  
Andhra University,  
Waltair, India.

October 29, 1957.

Dear Prof. Goodspeed,

I am interested in the study of morphology of pachytene chromosomes in plants showing a Eu- and Hetero-chromatic differrentiation of their segments at mid prophase. A student of mine is working on this problem in some members of the family Solanaceae like Solanum, Capsicum and Nicotiana. I shall be very grateful if you can kindly spare some seeds each of the various species and varieties of Nicotiana from your collection.

I need hardly mention that I shall be only too glad to supply you any materials that you may desire from here. I am sending by separate post a set of reprints of papers published from our laboratories.

With best regards,

Yours sincerely,

*J. Venkateswarlu*

(J. Venkateswarlu)

To:  
Prof. T. H. Goodspeed,  
Professor of Botany and Director of the Botanic Garden,  
University of California,  
Berkeley.  
California, U.S.A.

January 16, 1958

Prof. J. Venkateswarlu  
Head, Dept. of Botany  
Andhra University  
Waltair  
India.

Dear Professor Venkateswarlu:

Your letter of October 29th addressed to Dr. Goodspeed has arrived in his absence in South America where he is directing the Sixth University of California Botanical Garden Expedition.

In reply to your request, seed of various species of Nicotiana will be sent in a few days under separate cover.

With thanks for the set of your reprints sent to Dr. Goodspeed and with best wishes,

Sincerely yours,

Secretary

Sent by air - 2/13

J. Venkateswarlu,  
Professor of Botany,  
Andhra University,  
Waltair, India.

February 4, 1958.

Dear Mrs. Thompson,

Thank you very much for your kind letter of January  
13th. I will again write and acknowledge the receipt of the  
seeds as soon as they reach me.

I shall be thankful if you kindly convey my  
sincere thanks to Dr. T. H. Goodspeed for the help.

Yours sincerely,

*J. Venkateswarlu*

(J. VENKATESWARLU)

To:  
Mrs. M. Thompson,  
Secretary to Dr. T. H. Goodspeed,  
Department of Botany,  
University of California,  
Berkeley, California.  
U.S.A.

Dr. J. Venkateswarlu,  
Professor of Botany,  
Andhra University.

WALTAIR  
India  
31st March, '59.

Dear Dr. Goodspeed,

This is to acknowledge with thanks the receipt  
the following seeds of Nicotiana species kindly sent  
you.

With best regards,

Sincerely yours,

*J. Venkateswarlu*  
(J. Venkateswarlu).

To  
Dr. T.H. Goodspeed,  
Botany,  
University California,  
Berkeley, California, U.S.A.R.

Nicotiana solanifolia (T.012)  
" suaveolens (T.203)  
" tabacum purpurea (V.017)  
" " (Thachupicchu) (V.016)  
" sylvestris (U.018)  
" tomentosiformis (Q.009)  
" undulata (V.018)  
" setchelli (C.057)  
" rustica (U-014)  
" rustica variety pavonii (U-015)  
" rustica " pumila (U-016)  
" repanda (V-015)  
" rainondii (R-009)  
" velutina (V-203)  
" plumbaginifolia (V-014)  
" paniciflora (V-013)  
" Paniculata (V-012)  
" palmeri (U-013)  
" otophora (P-010)  
" occidentalis (T.202)  
" nudicaulis (V-011)  
" nesoplula (V-010)  
" nuersii (S. 01)  
" megalosiphon (S.202)  
" varitima (U.308)  
" longiflora (U.011).

*from the editor*

# Chronica Botanica

P. O. Box 151,  
WALTHAM, 54,  
MASSACHUSETTS, U.S.A.

June 13, 1949

Professor T. H. Goodspeed,  
2679 Life Sciences Building,  
University of California,  
Berkeley 4, California.

Dear Professor Goodspeed:

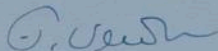
We have at present three printers who set our books up. In order that we can obtain good service from these firms it is necessary that we schedule our printing schedule as long as possible in advance. I am scheduling things, tentatively and without obligation on your part, in such a way that the manuscript of your book will be set up during November of this year.

If this is too late or too early, I shall appreciate it if you will advise me by return airmail.

I shall appreciate hearing from you.

Believe me,

Yours sincerely,



Frans Verdoorn.

FV:MW:872



The CHRONICA BOTANICA Co.  
SUMMER 1949 LIST



Return after five days to  
The Chronica Botanica Co.  
Waltham 54, Mass., U.S.A.  
Return postage guaranteed

SEC. 562, P. L. & R.  
U. S. POSTAGE  
**1c. PAID**  
BOSTON, MASS.  
Permit No. 53415

**Postmaster:**

If addressee has removed and new  
address is known, forward and notify  
sender on **FORM 3547** postage for  
which is guaranteed.

June 17, 1949

Dr. Frans Verdoorn  
P.O.Box 151  
Waltham 54  
Massachusetts

Dear Dr. Verdoorn:

Thank you for your letter of June 13 concerning my book on Nicotiana and a tentative date for setting up the manuscript.

I will hope to submit the final manuscript during November. However, during the last few months a serious illness has developed in my immediate family the outcome of which is at present in doubt. Therefore I would appreciate knowing what would be an alternative "deadline" early in 1950. With this information I should in the course of another week or two be able to make a final decision.

With best wishes

Cordially yours,

THG:T

from the editor

# Chronica Botanica

P. O. Box 151,  
WALTHAM, 54,  
MASSACHUSETTS, U.S.A.

June 21, 1949

Professor T. H. Goodspeed,  
2679 Life Sciences Building,  
University of California,  
Berkeley 4, California.

Dear Professor Goodspeed:

Thank you for your letter of June 17. I have been sorry to hear, indeed, that a serious illness developed in your immediate family and hope that everything will go well.

I am scheduling things in such a way that your book can be set up promptly late this year, as well as early in 1950. We have much work on hand as a result of the time which I spent in California. Chief purpose of my letter was to ascertain the date you will be ready with the manuscript in order that we will be able to set it up very promptly.

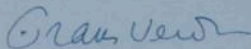
I know that you are anxious to see the book in print only a short time after you will have completed the manuscript. I can do this provided you keep in touch with me and you let me know, as long as possible in advance, when the manuscript will be ready.

During the past few years I collected many vignettes referring to tobacco which we might be able to use in your book.

I am sorry that I had to leave the Arboretum in Arcadia. I found the work there extremely time consuming and could not combine this new task well with my current commitments. While in Arcadia I was so busy that I never went further north than Lompoc. I greatly regret that I was not able to visit you and your Garden during the past winter.

With all best wishes,

Yours very sincerely,



Frans Verdoorn.

FV:MM:15/1/09



June 27, 1949

Dr. Frans Verdoorn  
Chronica Botanica  
P.O.Box 151  
Waltham 54  
Massachusetts

Dear Dr. Verdoorn:

Thank you for your letter of June 21. Your courtesy and kindness are much appreciated. I will certainly keep in touch with you concerning progress of my manuscript.

I also am sorry that you were unable to get to the North when you were in California. I had looked forward to your advice and comment on the development of the Botanical Garden here.

With best wishes

Cordially yours,

THG:T

from the editor

# Chronica Botanica

P. O. Box 151,  
 WALTHAM, 54,  
 MASSACHUSETTS, U.S.A.

August 16, 1949

Professor T. H. Goodspeed,  
 2679 Life Sciences Building,  
 University of California,  
 Berkeley 4, California.

Dear Professor Goodspeed:

With this letter I enclose the tentative table of contents of a large, co-operative volume on the trees and shrubs of S. California which I am preparing at present. I shall appreciate it very much if you will find it possible to go critically through this and if you will send me such suggestions and comments as may occur to you.

The order and arrangement of the chapters, as well as the title of the book, are still very tentative and do not need any special attention at present.

Most of all, we need suggestions as to reliable colleagues who may be able and willing to take part in the preparation of the book. You will note that I have not as yet been able to obtain good assistance for a number of chapters which should be included by all means.

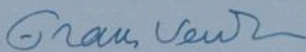
Then, I should like to ask if you would not find it possible to contribute a short chapter to our book on the contributions of South America, both the contributions which have already been made and those which might still be made, after further research and exploration, to the introduced flora of California, with some special reference to Southern California. I hope very much that you will care to undertake a brief chapter on this interesting subject, perhaps with some historical notes on the principal plant introducers and explorers involved.

I miss the Arboretum and the work in Arcadia more than I expected but, from my point of view, I can do more and better work in the Chronica Botanica office. I acquired a second house and we are now developing this into a new international plant science centre.

I hope that you and your family are well,

and remain, with kindest regards,

Yours very sincerely,



Frans Verdoorn.

\* Address all correspondence on editorial matters to Dr. Frans Verdoorn, all business correspondence, orders, remittances, etc. to the Chronica Botanica Co.



# Chronica Botanica

WALTHAM, MASSACHUSETTS, U.S.A.



Howes req. quest  
R. S. S.

With the  
Managing Editor's Compliments  
and kind regards

J. V.

---

Tentative and confidential!  
(Fourth edition)

August 1949

*D. J. S. Speed*

PARADISUS ARCADIENSIS:  
STUDIES on the  
TREES and SHRUBS  
of SOUTHERN CALIFORNIA

being arranged and edited by Frans Verdoorn  
for publication in 1950 in a single volume,  
by the Chronica Botanica Co.,  
for the Trustees of the California Arboretum Foundation, Inc.

\* \* \*

Foreword: Supervisor John Anson Ford

Prologue: Donald Culross Peattie

- INTRODUCTORY ESSAY -

Papoose to Cymbidium: Mrs. Richard Dakin

With notes on Hugo Reid, the L.A. Arboretum plans in general, the  
historical reconstruction work at the L.A. Arboretum, etc.

- HISTORY of EXPLORATION, RESEARCH and INTRODUCTION -

Early Dendrological and Botanical Exploration of S. California: J. Ewan

Early Botanic Gardens of S. California: L. Wheeler

With a list of the principal estates between S. Diego and S. Barbara.

Early Horticultural Contacts between California and S. Africa:.....(?)

Early Horticultural Contacts between California and Australia:.....(?)

Early Horticultural Contacts between California and the Far East:.....(?)

Reminiscences of Early S. California Nurserymen: G. Spalding

Early Plant Introduction Work by the U.S. Dept. of Agriculture in S.

California: D. Fairchild, W. Swingle, et al.

From Earnest Braunton's Columns.

California Trees and Art:.....(?)

## - TREES and SHRUBS of the PAST, PRESENT and FUTURE -

- Extinct California Trees and Forests: H.W. Chaney  
 With special reference to recent discoveries in the La Brea Tar Pits.  
 The Vegetation of S. California through the Ages: Daniel I. Axelrod  
 Plant Geographical Lessons from S. California Adobe bricks:.....(?)  
 The S. California Indians and their Trees: Bonnie C. Templeton  
 The Reconstruction of Early Mission Gardens:.....(?)  
 Early Plant Uses in S. California: Charles Gibbs Adams  
 Historic Trees of S. California: Metcalf  
 Lucky Baldwin's Estates and Ranches: Dewey Nelson  
 Pasadena Trees of the Past: Mrs. Mira Saunders  
 Early Tree Introductions in Los Angeles: Hugh Evans  
 Early Tree Introductions in Santa Barbara: Peter Riedel  
 Early Tree Introductions in San Diego: Dorothy Harvey  
 The Early Fruit Trees of California: H.M. Butterfield  
 History of Afforestation in S. California: R.M. van Wagner  
 History of the Avocado in S. California: R.W. Hodgson  
 Camellias and Camellia Breeding in S. California: W.E. Lammerts  
 Early Citrus History of S. California, with some special references to  
 the Wolfkill Family: A.J. Lorenz  
 History of the Date Palm in S. California: R.W. Nixon  
 History of Eucalyptus in S. California: Bonnie C. Templeton  
 New cold resistant Eucalypts: D. Martin (Hobart)  
 The Fig in S. California: I. Condit  
 The Oak in S. California: C.H. Muller  
 The Olive Tree in S. California:.....(?)  
 The Palms of the Huntington Garden: W. Hertrich  
 Roses and Rose Gardens in S. California, Their Past, Present and Future: Fred Walters  
 Viticulture and Oenology in S. California:.....(?)  
 California Plant Contributions to the Gardens of the World: Alice Eastwood,  
 Dr. McClintock, and J. T. Howell  
 Trees and Recreation: Dean G.H. Hart  
 Trees and the S. California Landscape: R. Fosberg  
 Tree Names and S. California Place Names: G.R. Stewart

## - CAPITA BOTANICA -

- Natural Plant Formations of the Southwest: P.A. Muns, D. D. Keck, and J. T. Howell  
 Notes on the floristic classification of the Flora of S. California: Lyman Benson  
 The Oak Woodland in S. California: Lyman Benson  
 Trees and Shrubs in Conservation Work in the Southwest:.....(?)  
 Forest Resources of S. California and their Conservation: Ch. Kraebel  
 With a brief enumeration of the chief forest reserves and their characteristics.  
 Fires and the Vegetation of S. California: Jerome S. Horton  
 Forest Tree Seed, Tree Nurseries and Tree Breeding in the Southwest:.....(?)  
 Tree Physiological Research in California: F.W. Went  
 With special reference to recent research in the desert  
 Trees and Water:.....(?)  
 Tree Biochemical Research in California: A.J. Haagen Smit  
 S. California Trees and the Measurement of Time: Harold Gladwin  
 Land Use and Vegetation Changes in California:.....(?)  
 Semler's Observations on Men versus Plants in California (1886): H. de Vries

## - BOTANICAL GARDENS and THEIR PROBLEMS -

- The Modern Arboretum and Botanical Garden: F. Verdoorn  
 Recording the Trees of a S. California Botanical Garden: D.B. Townsend  
     With a few pages on the Huntington Garden in general  
 A School Garden for S. California: A. Roberts  
 Trees in the Gardens of the University of California at Los Angeles: M.E. Mathias  
     With a few pages on the Gardens in general.  
 A Private Botanical Garden in S. California: Dr. and Mrs. S. Ayres  
 A plant geographical Garden for the Southwest: P.A. Munz  
     With a few pages on the Santa Ana Garden.  
 The reproduction of exotic vegetation types in S. California: R. Fosberg  
 A Tertiary Plant Garden for California: R.W. Chaney  
 Plant Physiological Experiments in a Botanical Garden: F.W. Went

## - HORTICULTURAL CHAPTERS -

- Native S. California Trees and their Horticultural Uses: M. Van Rensselaer  
     With a few pages on the Santa Barbara Garden  
 Recent Advances in the Propagation Technique of Trees and Shrubs: V.T. Stoutemyer  
 Propagation Problems of Australian Trees.....(?)  
 A Street Planting Programme for S. California: S. Ayres  
     With a few pages on the S. California Horticultural Institute  
 New Fruit Trees for S. California: C.A. Schroeder  
 Subtropical Trees and Frost Damage: W. Kertrich  
 Evergreen Trees and Shrubs from Temperate Regions for S. California Gardens:  
     Charlotte M. Doak

## - The LOS ANGELES STATE and COUNTY ARBORETUM in ARCADIA -

- Flora. - L. Gallup, L. Benson, M.E. Mathias, and others  
 Microflora of Lagoon. - G.W. Prescott  
 Prehistorical, chiefly palynological Records. - H.P. Hansen and others  
 Mammals and Reptiles. - Marjorie Moody  
 The Birds. - W.D. Quattlebaum  
 Notes on Insects. - J. Garth, G.P. Mackenzie, R. Mattoni (editor), D.W. Pierce, et al.  
 Notes on Molluscs. - .....(???)  
 Geology. - J.P. Buwalda  
 Sedimentation. - K.O. Emery  
 Soils. - Zinn  
 Water Conditions. - M.R. Huberty  
 History of Land Use. - Lee King  
     will quote Robinson's letter in full  
 Summary. - F.W. Went  
     to include Dr. Went's "Preamble for the L.A. Arboretum"

## - SUPPLEMENTARY CHAPTERS -

Check list of tree genera, native and introduced, with notes on literature, local and international authorities, sources of supply, etc.: George Spalding and others.

A Concise Bibliography of Important Books on S. California Botany, Horticulture and Dendrology, including the chief foreign works of importance: M.E. Mathias

Epilogue: Arboretums as Tools for Research (Arbor Day Address 1949): F. Verdoorn  
Indices of Plant and Animal Names, Persons, and Subjects.

\* \* \*

The above table of contents is still tentative. Suggestions as to other possible chapters, possible contributors, possible illustrations (photographs, old prints, drawings, vignettes, etc.), rare early material which may be fittingly reprinted, etc. will be welcome.

No manuscripts should be prepared in a definite form until the author and editor have agreed on the number of words, as well as on the number and type of illustrations. Notes for the typing of the manuscripts, in order that they will be somewhat uniform in style and typography, are available. Manuscripts will be set up whenever they come in. It is hoped that many manuscripts, ready for the printers, will be in our hands about October 15, 1949 and the other manuscripts should be in our hands about December 15, except the manuscripts for the Biological Survey section which may be sent as late as February 15, 1950.

All correspondence should be sent to Dr. Frans Verdoorn, Editor of *Chronica Botanica*, Waltham 54, Massachusetts. Whenever correspondence has a bearing on current work, the biological survey, etc., at the Los Angeles Arboretum a copy should be sent to the Arboretum office at P.O. Box 522, Arcadia, California.

November 3, 1949

AIRMAIL

Dr. Frans Verdoorn  
P. O. Box 151  
Waltham 54, Massachusetts

Dear Dr. Verdoorn:

Please forgive my seeming inattention to your letter of August 16, referring to a possible contribution by me to your forthcoming volume on Southern California Horticulture.

My wife has been in failing health for almost two years, and following an operation performed some months ago has been in very serious condition. As a result my correspondence has been much neglected, and progress on the final stages of my monograph on Nicotiana has been retarded. My situation would make it impossible for me to attempt a contribution to the Southern California volume. I am sorry, particularly because only recently have my rather numerous introductions from South America begun to reveal their potential importance for California horticulture, and because I am still importing and hope to continue to import a variety of west coast species not now or rarely grown in California.

Although it was to me and to many others, I am sure, heartening to know that you were to be concerned with the advancement of things botanical in California, your decision to return to the post where you have become an impelling force in plant science throughout the world will be welcomed by your colleagues.

Many thanks for sending me a copy of Howe, "Vegetable Gums and Resins." It is an important piece of work and presented excellently, especially as to illustrations.

Please accept my very best wishes for your continued success.

Cordially,

P.S. I am taking the liberty of enclosing a book order from your recent list. THG  
THG:am

from the editor

# Chronica Botanica

P. O. Box 151,

WALTHAM, 54,

MASSACHUSETTS, U.S.A.

November 9, 1949.

*to state  
return to THS*

Professor T.H. Goodspeed,  
2679 Life Sciences Building,  
University of California,  
Berkeley, California.

Dear Dr. Goodspeed,

Thank you for your letter of November 3. I am frightfully sorry to hear that Mrs. Goodspeed did not recover too well after her recent operation.

I realize that, under the circumstances, you can not attempt a special contribution towards the Southern California volume. I wonder if one of your associates ~~and~~ not find it possible to undertake a short account on the possibilities for Southern California of certain of your introductions from South America. I feel that our forthcoming *Paradisus Arcadiensis* will not be complete unless we have something on the result of your labours.

I have been catching up well with a variety of things, and I shall be able to publish the Monograph on *Nicotiana* promptly, provided you give me enough warning as to the date the manuscript will be ready. This is very essential, and I shall appreciate your cooperation in this connection.

With very best wishes *to you and Mrs. Goodspeed*

Yours sincerely,

*Frans Verdoorn*

Frans Verdoorn.

FV/HV/91.



2079 Life Sciences Bldg  
Berkeley 4, California  
November 28, 1949

Dr. Frans Verdoorn  
P.O.Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

Thank you for your kind letter of November 9. <sup>T</sup>It will be difficult to find anyone who can comment effectively on my introductions and reintroductions of South American species of potential horticultural importance. In addition, I was principally interested in bringing back species which would be successful in the climate of middle western California and northward rather than in Southern California.

Perhaps Stork who spent a year with us in Peru could give some picture of the new or little known ornamentals he saw. I might have time to say something about orchids, cacti and other succulents from Colombia and Peru and about Chilean ornamentals. I will take up the possibility with Stork and will let you know what we can do for you as soon as possible. What is the ultimate deadline for manuscripts? In any case the relation of our introductions to Southern California horticulture could not be stressed because I know little about the present status of that horticulture.

Month after month for the past year I have hoped to give you a truly final estimate of when you will receive the manuscript of my Nicotiana monograph. In my wife's present condition I simply cannot say. I am very anxious to obtain as early publication as possible after submission of the ms and appreciate that this will be possible only if you have sufficiently advance notice to permit arrangement of your publishing schedule. In other words, I will certainly let you know at the earliest opportunity.

I appreciate your giving me the Splendore (1906) reference on Nicotiana. Some time ago an Argentine botanist gave me his copy of this rather rare item which I first saw many years ago.

With thanks again for your thoughtful interest and co-operation

Cordially,

THG:T

copy  
x Stork  
letter

from the editor

# Chronica Botanica

P. O. Box 151,

WALTHAM, 54,

MASSACHUSETTS, U.S.A.

November 30, 1949

Professor T.H. Goodspeed,  
2679 Life Sciences Building,  
University of California,  
Berkeley, California.

Dear Dr. Goodspeed,

After I returned from Arcadia I organized an entirely new office in Waltham. I think I wrote you already about this. We are now well established in our new quarters, and lately we have been able to catch up well with a variety of things.

During the next few months we will publish more than during any previous period.

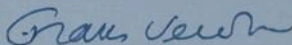
I have many manuscripts ready for the printers, more perhaps than they can handle during the coming year. I am very anxious, however, that your book will not be delayed. If you can give me a tentative date on which you think the manuscript will be ready, this would be very helpful indeed in making our printing schedule for the coming year.

I beg that you will not hurry things in any way to help me as I have enough manuscripts on hand. I want to give your book some priority, and I can do this only if I know a good time in advance when the manuscript will be ready approximately.

I look always much forward to publishing your book, and will not fail to make something nice for you.

With kind regards,

Yours very sincerely,



Frans Verdoorn.

FV/HV/22-I-23.

*I hope that Mrs. Goodspeed is better!*

*F. V.*



from the editor

# Chronica Botanica

P. O. Box 151,

WALTHAM, 54,

MASSACHUSETTS, U.S.A.

February 1, 1950

Professor T.H. Goodspeed,  
2079 Life Sciences Building,  
University of California,  
Berkeley 4, California.

*Combes  
1913 Haslorn, graphique  
statistique du tabac, etc.  
1899 monographie  
notre qui est un livre d'*

Dear Dr. Goodspeed,

I hope that Mrs. Goodspeed is again somewhat better.!

A few weeks ago I obtained from the library of the Welcome Historical Museum in London a photostat of Singer's "Early History of Tobacco" as published in the Quarterly Review in July 1913. They had an interleaved copy of this with a number of additions, in manuscript, by the author. I do not know if these amount to much, but should be glad to send you the photostat on loan. Singer often finds obscure things, but I doubt if he can find much about Nicotiana which you do not yet have!

For years I have been trying to get those tables which Combes published about the history of tobacco. They seem rather rare for, though we have good contacts in Italy, I have never been able to get hold of any of them! If you might ever know of someone who would have a set available for sale or exchange, I should appreciate your advice.

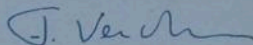
While in Arcadia I had photostats made of some of the very rare, early items of tobacco which the Huntington Library has, as Barlow, 1596, Bellamy, 1602, etc. They make wonderful photostats, almost as good as the originals, which can be bound easily and nicely.

We are well established in our new office and catching up well with a variety of things. I shall be able to publish the Nicotiana monograph pretty quickly. I am scheduling it roughly for going to press late this, or very early next year. If this might not work out well, there will be other manuscripts to take its place.

We make good progress with the Paradisus Arcadiensis, but many of the authors need months and months to finish their chapters. I do not think that I will have all copies together until towards the end of this year. Later you and Dr. Stork may still care to contribute a short chapter on some of your findings in South America.

In the meantime I remain, with kind regards, and best wishes,

Yours very sincerely,



Frans Verdoorn.

FV/HV/51/23.



February 8, 1950

AIR MAIL

Dr. Frans Verdoorn  
P. O. Box 151  
Waltham 54, Massachusetts

Dear Friend:

Many thanks for your interesting letter of February 1. Comes' book (?) "Historie, Geographie, Statistique du Tabac etc." is referred to by Setchell as published in 1900 and Comes, on the title page of his 1899 monograph of Nicotiana, says that he is also the author of the "Historie etc." I have never seen the letter but presume that George Arents had it and that it is in his stupendous collection of the History of Tobacco now housed in the New York Public Library. Since many years ago, I got in touch with Mr. Arents, worked in his library, and saw the beginnings of publication of the great tomes on his tobacco library, I have assumed that what I needed he could supply.

The Arents volumes are kept in the "Treasure Room" of our library. Why, I don't know except that they cost \$75 each--and cannot be withdrawn so it is inconvenient to consult them. I will, however, look up the Barlow and Bellamy items you refer to, and also the Singer paper. I appreciate your willingness to permit me to borrow the Singer and would be glad to see it. Would it be possible to obtain copies of your photostat of the Huntington Library material on tobacco and if so, approximately at what cost?

Concerning the Nicotiana monograph, I am sure that it will be in your hands before July 1, and I can see no reason why you cannot make your publication plans with such date in mind. I will certainly appreciate the early publication you anticipate. I hope Stork and I can have manuscripts for you on South American Plant Introductions for California by the end of the year.

Mrs. Goodspeed is much the same, and I see little prospect of much favorable change in her condition. If possible, I expect to go to Stockholm at least for the period of the Congress. I have been appointed both an Honorary President of the Congress and the President of a section. This is confidential because I may later on be unable to accept the appointment.

With many thanks for your cooperation and with best wishes,

Cordially,

MT:am

from the editor

**Chronica Botanica**

P. O. Box 151,  
WALTHAM, 54,  
MASSACHUSETTS, U.S.A.  
February 13, 1950

Professor T.H. Goodspeed,  
2679 Life Sciences Building,  
University of California,  
Berkeley, California.

Dear Dr. Goodspeed,

In the near future we will issue an entirely new catalogue. In this I am printing the note about your book which you sent some time ago. In addition to the short general statement, which I have already, I should very much like to have a (tentative) list of the main chapter headings. This does not have to be a complete or definite list, just a couple of lines to give a better idea of the contents of the forthcoming monograph. \*

My thoughts are often with you.

With kind regards to you and Mrs. Goodspeed,

Yours very sincerely,

*F. Verdoorn*

Frans Verdoorn.

FV/HV/23.

\* Something of the type of  
the notes I marked  
on the enclosure.

*F. V.*

Address all correspondence on editorial matters to Dr. Frans Verdoorn, all business correspondence, orders, remittances, etc. to the Chronica Botanica Co.



► **MYCOTROPHY IN PLANTS** by Arthur P. Kelley, Ph.D. (Landenberg Labs., Pa.).—This book provides Botany for the first time with a comprehensive survey of mycotrophic processes. Instead of plants being provided with nutrition by a root-hair mechanism, many plants in nature—in all the major groups of plant taxonomy—live in intimate association with fungi that bring to them much of the raw materials upon which they live. This association is naturally accompanied by structural peculiarities which are described; and occurs under ecological circumstances that are briefly treated. Many hypotheses to account for this strange mode of plant nutrition have been advanced, and these are reviewed; while in the final chapter the author presents evidence to show that mycotrophy is a mechanical process conditioned by the ordinary laws of biology.—*A New Series of Pl. Sci. Bks., Vol. 21; Roy. oct., buckram, ca. 240 pp., illustr., in press, ready shortly.....ca. \$4.75*

*Contents:* Historical introduction. Systematic occurrence of mycotrophic plants. The fungal endophytes. Fossil mycotrophs. Geographical distribution. Mycotrophic plants and their environment. Mycothall and mycothitomes. Mycodematia. Structure of mycorrhizae. Obligate symbiosis. Theories of mycotrophy. Mycotrophic phagocytosis.

► **A DICTIONARY OF GENETICS** by R. L. Knight, Ph.D. (Khartoum)—A dictionary of modern as well as older terms used in genetics and related fields as plant breeding, animal breeding, cytology and evolution.—*Chronica Botanica, Vol. 12, No. 1; Sup. roy. oct., ca. 100 pp., in press, ready spring 1948.....ca. \$2.50*

The appendices comprise (1) Useful formulae; (2) Coefficients of the terms in the expansion of  $(1 + X)^n$  for values of  $n$  from 1—20; (3)  $2^n$  and  $4^n$  for values of  $n$  from 3 to 20; (4) Distribution of  $N$  in (5) Genotypes expected in Backcrosses and  $F_2$ ; (6) Percentage of homozygotes in each generation following a cross the whole progeny of which is continuously selfed; (7) Rate of elimination of donor genotype by backcrossing.

► **THE CARNIVOROUS PLANTS** by F. E. Lloyd, D.Sc., Emeritus Prof. Botany, McGill University.—Since the appearance of CHARLES DARWIN'S "Insectivorous Plants" in 1875 no comprehensive treatise on these biologically exceedingly interesting plants has appeared. The gradual advance of our knowledge has been summarized from time to time by DRUDE, PFEFFER, ED. MORREX, HOOKER, GOEBEL and LLOYD, but a fully documented treatment was greatly needed. The illustrations are nearly all original and include numerous halftone plates, enabling the reader to visualize the forms discussed, and a large number of line drawings amplifying the text.—*A New Series of Pl. Sci. Bks., Vol. 9 (1942); Sup. roy. oct., buckram, 352 pp., several hundred illustrations.....\$6.00*

*Contents:* Introduction. Heliamphora. Sarracenia. Darlingtonia californica. Nepenthes. Cephaelis follicularis. Genlisea. Byblis. Droserophyllum Justinianum. Pinguicula. Drosera. The carnivorous Fungi. Dionaea. Aldrovanda. Utricularia. Dicolularia, and Polypompholyx. Indices.

It is so clearly and entertainingly written that anyone with a modicum of botanical knowledge can enjoy it and use it as a guide. Professor LLOYD'S drawing and photographs are very clear and helpful, and the 38 plates incorporate hundreds of them. Prediction is of the high standard we have learnt to expect from Chronica Botanica. Altogether, a distinguished performance for which thanks and congratulations are due to both author and publisher (STREPKENS & J. SO. AR. BOY.).

It is, therefore, the more commendable and welcome that finally LLOYD has completed this comprehensive authoritative, and detailed study of the carnivorous plants. Any such study which traces a function or an activity through the diverse plants possessing it is bound to have a significant influence on science, and this authoritative volume without doubt will prove to be an epoch-making one. Comprising

in large part the author's own original work, yet with a masterly synthesis of all the pertinent work previously done by others, the book has a thoroughness and completeness that stamp it as outstanding. All possible aspects of the plants concerned—their taxonomy, anatomy, physiology, ecology, and relationship—are considered in detail, with authoritative knowledge derived from the writer's 13 years of enthusiastic devotion to this field, devotion that involved careful absorption of an extensive literature in several languages, and first hand study of living material on this continent, in Europe, and in more remote localities during two journeys—one to Africa, another to Africa and Australia—supplemented by extensive correspondence, by securing the cooperation of collectors and naturalists in favorable localities, and by periods of study at various botanic gardens and laboratories. The volume is a beautiful job of craftsmanship (QUART. REVIEW OF BIOL.).

► **MERRILLEANA—A SELECTION FROM THE GENERAL WRITINGS** of E. D. Merrill, D.Sc., LL.D. (Harvard University).—During his long and active life the Nestor of American Plant Taxonomists has found the time for many studies of wider general interest. Though these are often not so well known as his purely taxonomic and administrative activities, they are of great and permanent value. It seemed fitting to the Editors of Chronica Botanica to bring out on the occasion of the 70th anniversary of the birth of their distinguished co-editor, a selection, difficult as it was to make, of his more general writings. The book includes a 'Vita' and 'Bibliographia' as well as certain portraits.—*Chronica Botanica, Vol. 10, No. 3/4 (1946); Sup. roy. oct., 268 pp., illustrated.....\$4.00*

*From the contents:* The ascent of Mount Halcon. Ambonia floristic problems in relation to the early work of RUPRECHTUS. On the flora of Borneo. Die phänogeographische Scheidung von Formosa und den Philippinen. An appeal for simplified literature citations. Correlation of the indicated biological alliances of the Philippines with the geologic history of Malaysia. On LORENZO'S "Flora Cochinchinensis". PALMISTO DE BEAUVOIS as an overlooked American botanist. On the technique of inserting published data in the herbarium. On the significance of certain oriental plant names in relation to introduced species. Domesticated plants in relation to the diffusion of culture. Man's influence on the vegetation of Polynesia, with special reference to introduced species. Some economic aspects of taxonomy. RUPRECHT'S publication from the standpoint of world botany. In defense of the validity of WILLIAM HARRIS'S binomials. Further notes on tobacco in New Guinea.

► **BIOLOGY OF PATHOGENIC FUNGI**, edited by Walter J. Nickerson, Ph.D. (Wheaton College, Mass.).—A cooperative volume covering many aspects of the biology, physiology, and biochemistry of the fungi pathogenic for man. It is not a clinical manual nor a compendium on all the fungi of medical importance, but presents information and viewpoints from biology and chemistry generally bearing on these difficult forms. Aimed at the bringing together of facts and interpretations for purposes of comparison with other micro-organisms and for the furtherance of investigations of both theoretical and practical nature on the fungi pathogenic for man. The implications for disease control are stressed.—*Ann. Crypt. et Phytol., Vol. 6; Roy. oct., buckram, ca. 250 pp., illustrated, in press, ready winter 1946/47.....ca. \$5.00*

*Contents:* Hoppich: Foreword; Nickerson: Introduction; Emmons: Biology of Coccidioides; Denham: Biology of Pteridium; Loder and de Munnik: Biology of Pathogenic Torulopsidiales; Corrión and Silva: Organisms Causing Chromoblastomycosis; Ciferri and Redaldi: Recent Advances of the Italian School in Mycopathology; Wolf: Action of Sulfonamides and Antibiotic Agents on the Pathogenic Fungi; Martin: Geographic Distribution of Systemic Fungal Diseases; Williams and Nickerson: Factors in the Nutrition of Pathogenic Fungi; Nickerson: Metabolic Products of the Pathogenic Fungi; Peck: Lipids of Fungi with special reference to the Pathogenic Fungi; Nickerson: Respiration of Pathogenic Fungi.

February 16, 1950

Dr. Frans Verdoorn  
Chronica Botanica  
P.O.Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

Thank you for your kind letter of February 13.

Enclosed is a statement concerning the book which I hope will meet your needs. If you want, for the sake of uniformity or for any other reason, to remove the honorary degrees after my name and leave only the Doctorate please do -- I have no feeling in the matter. The book could be referred to as in preparation and to be published in 1951.

Mrs. Goodspeed seems to be improving a little and I am getting more done.

With kindest regards

Cordially,

THG:T

THE GENUS NICOTIANA by T. H. Goodspeed, Ph.D., Sc.D.  
(hon.c.), Doctor (hon.c.) (La Plata) (University of  
California).-- A monograph of Nicotiana with detailed  
discussion of distribution, morphology, taxonomy and  
cytogenetics in relation to the evolution of the genus.

Contents: Introduction -- objectives and phyletic  
viewpoint. Geographic distribution -- world; South  
American; North American; Australasian; interpreted  
in light of geologic history. Morphology -- general;  
special; phyletic conclusions. Taxonomy -- 59 species  
redescribed, with key, and illustrated. Cytogenetics --  
chromosome number and morphology of 56 species; meiotic  
chromosome behavior in 215  $F_1$  interspecific hybrids  
tabulated, illustrated and interpreted. Phyletic --  
origin and relationships of 59 species.

from the editor

# Chronica Botanica

P. O. Box 151,

WALTHAM, 54.

MASSACHUSETTS, U.S.A.

March 23, 1950

Professor T. H. Goodspeed,  
2679 Life Sciences Building,  
University of California,  
Berkeley 4, Calif.

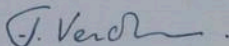
Dear Dr. Goodspeed,

I enclose a copy of the entry which we will have about your book in our forthcoming Spring Catalogue.

I trust that this will be agreeable to you. If there might be any real mistakes in the enclosed note, I shall appreciate it if you will let me know by return air mail as our Catalogue will be in proof and printed off in a very few days.

With kind regards,

Yours very sincerely,



Frans Verdoorn.

FV/hv/86/17



Berkeley 4, California  
March 28, 1950

Dr. Frans Verdoorn  
Chronica Botanica  
P.O.Box 151  
Waltham 54, Mass.

Dear Friend:

I have your letter of March 23 containing the proposed announcement of the *Nicotiana* monograph. I have only two suggestions. First, if one degree alone is to be used after my name I should think that it would be better to use Ph.D. rather than Sc.D. since the former <sup>is</sup> was an earned and the latter an honorary title. Second, I wonder whether the price is sufficiently high in view of the fact that I anticipate approximately 90 full pages illustrations and a certain number of part page ones. Perhaps, however, the fact that I am to pay for all illustrations will make it possible for you to keep the price down to \$6.00.

With best wishes

Cordially,

THG:T

# Chronica Botanica

from the editor

P. O. Box 151,  
WALTHAM, 54,  
MASSACHUSETTS, U.S.A.  
April 25, 1950

Professor T. H. Goodspeed,  
2679 Life Sciences Building,  
University of California,  
Berkeley 4, Calif.

Dear Dr. Goodspeed,

I enclose a proof of the note which we will have in our forthcoming catalogue about your book.

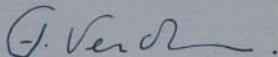
The catalogue is being printed off this week, and I trust that this brief advance notice will be satisfactory.

During the next few weeks we will distribute about 40,000 copies of our Spring 1950 Catalogue, and I am certain that this will result in many orders for your book.

In the meantime, I remain,

with kind regards,

Yours very sincerely,



Frans Verdoorn.

hv/18/23

Address all correspondence on editorial matters to Dr. Frans Verdoorn, all business correspondence, orders, remittances, etc. to the Chronica Botanica Co.



Of more than usual interest to those having to do with soil management in relation to crop production so that it deals with one of the more obscure phases of this problem about which there is great need for more exact information. (SOIL SCIENTIST). A copy of GABRETT'S "Root Disease Fungi" was included in the highly selective exhibit organized in San Francisco at the occasion of the United Nations Conference, of 120 technically outstanding books, recently produced in the U.S.A.

**Goodspeed (T. H.), Ph.D. (Univ. Calif.): THE GENUS NICOTIANA.**—Brings together results of the author's extended investigation of the morphology, distribution, taxonomy (description and illustration of all recognized species) and cytogenetics of the modern species of *Nicotiana* and applies them and the work of others to the problems of the origin and evolution of these species and of the future status of the genus.—*A New Series of Pl. Sci. Books*; Sup. roy. oct., buckram, ca. 300 p., well illus., in preparation.....ca. \$6.00

*Contents:* Introduction; objectives and phyletic viewpoint. Geographic distribution, interpreted in light of geologic history. Morphology. Taxonomy: 59 species redescribed, with key, and illustrated. Cytogenetics: chromosome number and morphology of 56 species, mitotic chromosome behavior in 215 F<sub>1</sub> interspecific hybrids tabulated, illustrated and interpreted. Phylaxis: origin and relationships of 59 species.

**\*Grant (Julius), Ph.D. (Cardiff): WOOD PULP AND ALLIED PRODUCTS.**—Second, revised edition of Vol. 2 of our "A New Series of Plant Science Books", published in England (1947); Demy oct., cloth; 312 p., 38 illus.....\$6.00

**Guilliermond (Alexandre), D. ès Sc. (Sorbonne): THE CYTOPLASM OF THE PLANT CELL.** Authorized translation from the unpublished manuscript by Lenette Rogers Atkinson, Ph.D. Foreword by William Seifriz.—A critical review of our present knowledge of the cytoplasm and its morphological constituents by the late eminent French cytologist.—*A New Series of Pl. Sci. Books*, Vol. 6 (1941); Sup. roy. oct., buckram, 247 p., 152 illus., second printing (1948).....\$5.00

*Contents:* Structure of the plant cell. Properties and constituents of the cytoplasm. Plastids and Chloroplasts, their relationship and characteristics. Vacuoles: staining, development, origin, role. Golgi apparatus. Lipid granules. Cytoplasmic alterations.

Mrs. ATKINSON has accomplished an excellent job of translating and interpreting for English readers a highly stimulating work which can be recommended to botanists generally. (REAL in BOTAN. GAZETTE).

A thorough, critical and well-balanced survey of the various theories on cytoplasm, chondriosomes, plastids, vacuoles, etc., in which both the morphological and functional (physico-chemical) point of view have been adequately stressed. Though the author, as one of the leading cytologists, has his own pronounced views, he always does justice to contrary views, so that a very high degree of objectivity in the treatment is obtained. (LUTHERBANK in J. S. Ar. Bot.).

**Gundersen (Alfred), D. de l'U. (Brooklyn Bot. Ga.): THE FAMILIES OF DICOTYLEDONS.**—A new, original, yet conservative, review with many fine plates. The orders have been arranged in ten large groups beginning with Magnoliiflorae. Each family is dealt with according to a special, concise scheme. Much recent literature is quoted. The first publication covering the subject since RENOLE's and HUTCHINSON's books of 1925 and 1926.—*A New Series of Pl. Sci. Books*, Vol. 25 (1950); Roy. oct., buckram, ca. 240 p., numerous illus., in press, ready very shortly.....\$4.50

*Contents:* Fossil dicotyledons (ARNOED). Wood anatomy (TIFFO). Carpels and ovules (JETT). Embryology (COPELAND). Cytotaxonomy (TAYLOR). Plant geography (CAMF). Characters of dicotyledons. Historical notes. Systematic arrangement. Bibliography.

**Hoagland (D. R.), A.M. (Univ. Calif.): LECTURES ON THE INORGANIC NUTRITION OF PLANTS.**—This series of lectures, based on the Prather Lectures at Harvard University, delivered by the author in the spring of 1942, outlines a number of important problems of plant nutrition, with a very considerable amount of illustrative material derived from

extensive researches at the Univ. of California. Scientific aspects of certain soil-plant interrelations, nutrient absorption and utilization, and artificial culture methods are primarily discussed.—*A New Series of Pl. Sci. Books*, Vol. 14 (1944); Roy. oct., buckram, 226 p., numerous illus., tables and plates, second printing (1948).....\$4.50

*Contents:* A survey of problems. Micronutrient chemical elements and plant growth. The absorption and accumulation of salts. Upward movement and distribution of inorganic solutes. The growth of plants in artificial media. Some bio-chemical problems associated with salt absorption. Aspects of the potassium nutrition of plants as illustrating problems of the system, soil-plant-atmosphere.

The discussions are based upon work done in many laboratories, but with emphasis upon work done in the Div. of Plant Nutrition of the Univ. of California, where Dr. HOAGLAND'S genius has found its expression in a long series of distinguished contributions. . . . It is a valuable service to plant physiologists to have the field presented by one so familiar with the techniques and the historical development of the subject. (PLANT PHYSIOLOGIST).

Libro indispensable para el fisiólogo y también para el agrónomo que se interese por la fertilización de los suelos y el alimento de las plantas de cultivo. (CASTAÑERA in CIENCIA).

**Honig (P.), Ph.D. (West Indies Sugar Corp.) and F. Verdoorn, Ph.D., eds.: RECENT ADVANCES IN TROPICAL BIOLOGY AND AGRICULTURE.**—An international symposium consisting of about seventy, authoritative reviews of recent advances in various fields, with special reference to wartime progress (particularly in Latin America and the British Empire). Certain timely major problems concerning the development of tropical research and resources will be discussed in a number of outstanding introductory essays.—*Lottery*; Sup. roy. oct., buckram, ca. 300 p., well illustrated and beautifully produced, in preparation.....ca. \$6.00

**Horsfall (J. G.), Ph.D. (Connecticut Agric. Experiment Station): FUNGICIDES AND THEIR ACTION.** Foreword by David Fairchild.—An examination of the physics and chemistry of the mechanisms by which fungicides control plant diseases. Pertinent data are reviewed and critically discussed in the light of a relatively new tool for assay; namely, dosage-response.—*Ann. Crypt. et Phytol.*, Vol. 2 (1945); Roy. oct., buckram, 239 p., 19 illus., second printing (1947). \$5.00

*Contents:* Historical introduction. General concepts. Laboratory assay. Problems of data assessment. Principles of chemical protection. Deposition. Coverage of single surfaces. Multiple surfaces. Tenacity. Artificial immunization and chemical therapy. Action of copper. Sulfur. Organic nitrogen compounds. Other organic compounds. Antagonism and synergism. Phytotoxicity.

The first book in this field that wholly eschews these more tangible aspects of fungicides in favor of a direct attack upon the problem of the physical and chemical principles that determine fungicidal action. (WEISS in CUREM. AND EXCIS. NEWS).

**Howard (W. L.), Ph.D. (Univ. Calif.): LUTHER BURBANK—A Victim of Hero Worship.**—Several years ago the late writer undertook the preparation of an authentic list of all fruits, flowers, vegetables, and other things, the late LUTHER BURBANK introduced during the fifty years of his working life, and where possible, giving some idea of their worth. The task was prolonged because BURBANK kept no systematic record of what he produced. His advertising literature was scattered to the four winds. The late author personally examined libraries and private collections from Coast to Coast and contacted dealers all over the world.—*Chronica Botanica*, Vol. 9, No. 5/6 (1945); Sup. roy. oct., 208 p., illustrated by photographs and facsimiles.....\$3.75

*Special limited Edition, handsomely bound in cloth, stamped with gold, marbled boards.....\$4.00*

*Contents:* The background. The man. The nurseryman. The scientist. The expert. The mentor of youth. The fortunate. The pariah (of scientists). The disappointed. The world character. The individualist. Ethics. Religion. Foray into science—the Carnegie grant. Admirers. Detractors. BURBANK'S place in the hall of fame. Summary of BURBANK'S productions. Aftermath. The BURBANK family.

# CHRONICA BOTANICA Co., *International Plant Science Publishers*

Telephone: WA 5-0600 — Cables: Flora  
Catalogue, with list of authorized agents, on request  
Established in 1955, at Leyden



Chronica Botanica House  
WALTHAM, 54, MASSACHUSETTS, U. S. A.  
977, Main Street — P. O. Box 151

April 27, 1955

*file*

Professor T. H. Goodspeed,  
2079 Life Sciences Building,  
University of California,  
Berkeley 4, California.

Dear Dr. Goodspeed,

We just received a few advance copies from the Riverside Press of your "Nicotiana" tome and I am rushing you 2 copies by air. The remaining 28 complimentary copies, to which you are entitled, will follow before the end of the week.

I hope that you will like the way the results of a lifetime of ardent devotion have been produced. While writing this, I recall the long talk I had with Dr. Setchell, in August 1935, at the Amstel Hotel, in Amsterdam, about this project (almost 20 years ago!).

I am happy that, at the last moment, I decided to produce this book as a volume of my Chronica Botanica. In this way, it will receive a much wider and better distribution, particularly abroad, than it would receive if it had been published as a volume of the "New Series of Plant Science Books".

Personally, I am pleased with the book's typography, the way the illustrations came out (the tip-in plates are particularly good - you know that certain details shown in the original engraver's proofs will always be lost), and the jackets. I am not fully pleased with the paper. At your request I had exactly the same kind of paper made as we used for the Correll Book\* (only a fraction lighter in order to make the book not unduly heavy). A cold, antique paper (such as used for Bailey's Contributions) might have been better, though the risk remains that a few of your line drawings (e.g., the maps) would not have reproduced as well as they did now...

I want to thank you for some years of pleasant coöperation and your kind patience,

and remain,

Yours ever sincerely,

Frans Verdoorn.

FV/hvc

\* This was printed on Tilsiter or Hollingworth's best grade  
Imperial Faint, 70 lb. - your book on the same paper 65 lb.  
with a slightly less ivory shade.

Collected  
Lithium June 1, 1977

## Evolution of Tobacco Plant Outlined by U.C. Botanist

BERKELEY, June 1. — The evolution and history of the tobacco plant and its relatives told in a 550-page lifework of Dr. T. Harper Goodspeed, emeritus director of the University of California's Botanical Gardens.

The study, entitled "The Genus Nicotiana," contains an exhaustive account of species relationships, form and structure of plant parts; the number, character and behavior of the heredity-controlling units; analysis of hybrids and geographical distribution of the plant family.

The volume also contains the results of research carried on

by the U.C. scientist during five expeditions to South America in search of information on plants belonging to the Nightshade family, of which commercial tobacco is the best known.

Goodspeed will preside over a section of the International Scientific Congress on Tobacco in Paris in September.

2079 Life Sciences Bibliog

Dear Dr. Vardoorn:-

Enclosed an advance copy of a review  
of your *Mesotiana* volume - Norton does not  
say when it is to appear but probably in some  
government publication. I have noted only  
a brief review in the *Review Journal* and a  
notice in the *AIBS Bulletin*, in addition to one  
you sent from a trade journal.

There are many questions locally about  
availability of copies of the book, which is perhaps  
natural. I have sold a few of my copies to  
students who cannot afford the published price.  
If there are reviews in any wise equivalent to  
the enclosed there may be a considerable sale.  
I wonder how many copies were printed.

Sorry that I missed you in Holland  
this summer. Hope that all is well with  
you.

Cordially,  
A. B. S. P.

# CHRONICA BOTANICA Co., *International Plant Science Publishers*

Telephone: WA 5-0600 — Cables: Flora  
Catalogue, with list of authorized agents, on request  
Established in 1935, at Leyden



Chronica Botanica House  
WALTHAM, 54, MASSACHUSETTS, U. S. A.  
977, Main Street — P. O. Box 151

September 26, 1955

Professor T. H. Goodspeed,  
2079 Life Sciences Building,  
University of California,  
Berkeley 4, Calif.

Dear Dr. Goodspeed,

I spent most of the summer in the Netherlands where we are going to produce quite a few books, including most forthcoming volumes of *Chronica Botanica*.

Upon my return, I was pleased to learn from one of your letters that you were receiving kind comments about our *Nicotiana* volume.

I enclose a review from one of the tobacco trade journals which just came through.

We did not send any copies of your book directly to Dr. A. Muntzing (Lund), Dr. C. Skottsberg, and Dr. A. E. Kehr. Dr. Kehr is now at Iowa State College and no longer at Louisiana State. The institutions with which these colleagues are connected are, however, all subscribers to the series in which your book was published. On the other hand, Dr. H. H. Smith of Cornell ordered directly a copy from us.

A review copy of the book has been sent, as per your request, to the *Times Literary Supplement* of London.

At your convenience, I shall still appreciate your suggestions as to Japanese cytological and genetical journals which are currently publishing book reviews.

I am certain that we will have quite some additional reviews before long.

With kind regards,

Yours sincerely,

Frans Verdoorn.

FV/24c

# Had There Are Sixty Brand Species of Our Ago Nicotiana Genus

le Are  
Recall  
brand?

use of  
Sweet  
(Knox)  
every-  
Caps  
brand  
who  
popu-  
Well,  
lex, it  
cor-  
the  
board  
cents.  
that  
a ris-  
rage,  
Ciga-  
ents.  
and  
and  
ular  
kage  
blue  
g as  
erent

were  
unes,  
even  
n as  
such  
ryp-  
were  
y in-  
such  
Natu-  
s re-  
sell-  
d for  
which  
stare

Nicotiana is the genus of plants of which the tobacco that is grown in this country and from which cigars, cigarettes, smoking and chewing tobacco are made, is one species, and believe it or not there are 60 different species of this one plant known to botanical science. And like most everything else in this world, including humans, it is the result of evolution.

Prof. Thomas H. Goodspeed, of the University of California, has recently written a book known as "The Genus Nicotiana," in which he discusses the origin, relationships, and evolution of its species in the light of their morphology, distribution and cytogenetics. (Morphology is that phase of biology that treats of the structure and form of living things; cytogenetics relates more nearly to cell formation.)

Dr. Goodspeed has made a living collection of 56 of the 60 species and numerous varieties and forms of Nicotiana which have permitted comprehensive studies of comparative morphology and cytology which have contributed significantly to documentation of the author's phyletic conclusions.

The professor states that, "the combined evidence points to evolution of the genus Nicotiana via amphiploidy superimposed upon amphiploidy with introgressive hybridization and chromosome reorganization contributing largely to genetic differentiation on each successive amphiploid level." Apparently it took tobacco a long time to get here, but it was worth waiting for.

The book, which is published by the Chronica Botanica House, Waltham, Mass., contains 556 pages, 50 tables, 118 plates and other illustrations, sells for \$12.50 per copy, and will appeal to people who are interested in tobacco in its botanical aspects.

**Cambodia to Purchase**

Berkeley 4, California  
October 13, 1955

Dr. Frans Verdoorn  
P.O.Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

Thank you for yours of September 26th enclosing a review from a tobacco trade journal. I am sorry that I did not know that you were to be in the Netherlands because Mrs. Goodspeed and I were in and near The Hague for the week of the International Horticultural Congress and might have had an opportunity of seeing you.

Thank you for references to those on my list whose institutions have received copies of the *Nicotiana* volume or who have ordered personally. I note that a copy was sent to The Times Literary Supplement. I will write the Editor concerning the significance of the book in terms of a review in 1950 of the English edition of my "Plant Hunters in the Andes."

Shortly, I will try to get you a list of appropriate Japanese journals to which review copies might be sent.

With best wishes,

Cordially,

THG:T

CHRONICA BOTANICA Co., *International Plant Science Publishers*

Telephone: WA 5-0600 — Cables: Flora  
Catalogue, with list of authorized agents, on request  
Established in 1955, at Leyden



Chronica Botanica House  
WALTHAM, 54, MASSACHUSETTS, U. S. A.  
977, Main Street — P. O. Box 151

November 21, 1955

Professor T.H. Goodspeed,  
2079 Life Sciences Building,  
University of California,  
Berkeley 4, California.

Dear Dr. Goodspeed,

\* With thanks for your good letter of October 13, I enclose a review  
which we just received.

At your convenience I shall appreciate a list of a couple of  
Japanese journals which regularly publish reviews about genetical and  
cytological publications.

With kind regards,

Yours sincerely,

A handwritten signature in dark ink, appearing to read 'Frans Verdoorn'.

Frans Verdoorn.

FV/41c

CHRONICA BOTANICA Co., *International Plant Science Publishers*

Telephone: WA 5-0600 — Cables: Flora  
Catalogue, with list of authorized agents, on request  
Established in 1935, at Leyden



Chronica Botanica House  
WALTHAM, 54, MASSACHUSETTS, U. S. A.  
977, Main Street — P. O. Box 151

December 16, 1955

Professor T. H. Goodspeed,  
2079 Life Science Building,  
University of California,  
Berkeley 4, California

Dear Dr. Goodspeed,

With thanks for your good letter of November 21, I return the  
Morton review which I was glad to see.

Your book should be easily available, at all times, through our  
California agents, J. W. Stacey, Inc., 551 Market Street, San Francisco  
5, as well as through any other large Berkeley or San Francisco book-  
seller.

Last night, I went with interest through the account of your  
expeditions through the Andes (1935-1952). Are you still planning a  
more extensive account of the vegetation of certain areas of South  
America?

All best wishes of the Season,

to you and Mrs. Goodspeed,

Yours very sincerely,

Frans Verdoorn.

hvl40-c

Berkeley 4, California  
January 4, 1956

Dr. Frans Verdoorn  
P.O.Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

Many thanks for your recent letter containing Turill's review of the Nicotiana volume which I thought was quite favorable.

So far as I can determine none of the Japanese Genetics or cytological journals contain reviews. The Japanese Journal of Botany printed abstracts of literature but I am not sure whether it is still being published.

A number of my colleagues have asked me how large an edition of the Nicotiana volume was printed. It would be interesting to know.

With many thanks for your attractive Christmas card and all good wishes for the New Year,

Sincerely,

THG:T

# CHRONICA BOTANICA Co., *International Plant Science Publishers*

Telephone: WA 5-0600 — Cables: Flora  
Catalogue, with list of authorized agents, on request  
Established in 1935, at Leyden



Chronica Botanica House  
WALTHAM, 54, MASSACHUSETTS, U. S. A.  
977, Main Street — P. O. Box 151

January 25, 1956

Professor T.H. Goodspeed,  
2079 Life Sciences Building,  
University of California,  
Berkeley 4, California

Dear Dr. Goodspeed,

With thanks for your letter of January 4, I beg to report that we produced a little over 2000 copies of the *Nicotiana* volume.

We distributed nearly 1000 copies amongst *Chronica Botanica* subscribers and a good 150 complimentary copies (your copies, review copies, editorial board of *Chronica Botanica*, etc.).

It had been my plan to produce about 2400 copies, but there was somewhat more spoilage of paper, both at the printers and particularly at the bindery, which otherwise did a good job, than I had anticipated. Inasmuch as we gave the book a good initial distribution by making it into a volume of the *Chronica*, I am fairly certain that the remaining copies will outlive both of us!

Believe me,

Yours sincerely,

Frans Verdoorn.

FV/hv23c

Berkeley 4, California  
February 10, 1956

Dr. Frans Verdoorn  
P.O.Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

Many thanks for yours of January 25th with information concerning the edition of the *Nicotiana* volume that was printed and the extent of distribution.

You may remember that you sent me a review from the South African Journal of Science. It indicated a considerable lack of appreciation of the objective of the book and a certain peevishness that the tobacco plant as a commercial crop was not more emphasized.

Paul C. Hutchison, one of the coauthors of the taxonomy section, has a number of botanical contacts in South Africa and mentioned to one of them his feeling that justice has not been done by the reviewer. The reply suggests that South African botanists feel the same way and expresses hope that the Journal of South African Botany (Kirstenbosch, Newlands, C.P., Union of South Africa) will give a more intelligent review. I wonder whether a review copy was sent to that Journal?

With best wishes,

Cordially,

THG:T

Berkeley 4, California  
April 2, 1956

Dr. Frans Verdoorn  
P.O.Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

Many thanks for the five reviews received a few days ago. Today I saw the review in Science.

I am sure that you must take considerable satisfaction in the many references to the very fine format and illustrations for which you were responsible. I certainly am most pleased with them. Colleagues here refer to the volume as "your beautiful book."

It seems to me that the general tone of the reviews should make both of us feel that the efforts expended on the writing and production of the book were justified.

I hope that all is well with you.

Cordially,

THG:T

2079 Life Sciences Bldg.  
University of California  
Berkeley 4, California  
May 10, 1956

Dr. Frans Verdoorn  
P.O.Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

Many thanks for the review of the Nicotiana volume by Dr. Methes and for the one which appeared in Science. I was particularly pleased with the latter because the reviewer works with Nicotiana and has, I think, considered himself somewhat in competition with me.

I have been expecting a review in the American Naturalist or at least mention by title in its "Publications Received." I presume that there is no doubt that this journal received a review copy.

Buxbaum is spending some time with us here. I think that it was he who told me that you are planning to transfer your headquarters to Holland.

With best wishes,

Sincerely,

THG:T

2079 Life Sciences Eldg.  
University of California  
Berkeley 4, California  
June 11, 1956

Dr. Frans Verdoorn  
P.O.Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

Many thanks for the reviews of the Nicotiana volume received from you recently.

I have prepared the manuscript of the address I gave last September in opening the sessions of the International Scientific Tobacco Research Congress for publication in the Proceedings of the Congress.

For the volume which will be a memorial to Dr. Hugo Salomon, the late distinguished Argentine conservationist, I am writing an article on certain of the rare South American species of Nicotiana.

In both cases I wish to have reprinted certain of the illustrations in the Nicotiana volume. May I have your permission to do so, with suitable acknowledgements? I think that I have already secured permission to reprint illustrations in an article on the Systematics of Nicotiana to appear in the Handbuch der Pflanzenzuchtung.

With best wishes,

Sincerely,

THG:T

# CHRONICA BOTANICA Co., *International Plant Science Publishers*

Telephone: WA 5-0600 — Cables: Flora  
Catalogue, with list of authorized agents, on request  
Established in 1955, at Leyden



Chronica Botanica House  
WALTHAM, 54, MASSACHUSETTS, U. S. A.  
977, Main Street — P. O. Box 151

June 21, 1956

Professor T. H. Goodspeed,  
2079 Life Sciences Building,  
University of California,  
Berkeley 4, Calif.

Dear Dr. Goodspeed,

With thanks for your good letter of June 11, I beg that you will consider this letter as a "blanket release of copyright" and permission to reproduce whatever you need from your *NICOTIANA* volume, in the way of text or illustrations, for your other publications as long as the source will be given and the other publications will not interfere with the sales of our *Nicotiana* volume.

\* I enclose a nice review which just came in.

For months and months, I have been trying to get a copy of Wm. Matthews 1945: *American Diaries*, 383 p. This was published in a trade ed. by your University Press, but is out-of-print. The book was (also) issued as *Univ. Calif. Publics. in English*, Vol. 16. If you have contacts in the Dept. of English, I should be much obliged if you might be able to locate there still a spare copy for me. Otherwise, I beg that you will not bother. The Matthews book includes much on early American natural history travelogues in which I am rather interested.

Believe me,

Yours very sincerely,

Frans Verdoorn.

FV/c

*I will write you, before long, about the  
other matter about which you asked!*

2079 Life Sciences Bldg.  
University of California  
Berkeley 4, California  
July 11, 1956

Dr. Frans Verdoorn  
P.O.Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

I appreciate the "blanket release of copyright" in your letter of June 21 and copy of the review of the Nicotiana volume enclosed in it.

A friend in our University Press will I think be able to find a copy of the Matthews article in the English Series Vol. 16. If so it will go forward to you.

I am returning a copy of Copeland "Genera Filicum" which was purchased in January on University of California order. As you will find pages 167 and 168 are defective. Please send a perfect copy to me rather than to the University.

With all good wishes,

Cordially,

THG:T

PLEASE SUPPLY SUBJECT TO GENERAL AND SPECIAL INSTRUCTIONS NOTED

Copeland, Edwin Bingham

Genera Filicum - The Genera of Ferns  
(Annales Cryptogamici et phytopatholo-  
gici, v.5)

Waltham, Mass., Chronica Botanica, 1947.

ORDER NO.  
265,331  
DATE OF ORDER  
27 D 55  
FUND

64275-14-49060

RETURN FOR REPLACEMENT, cf. p. 167-168

~~RETURN GREEN SLIP~~

AS DIRECTED ON VERSO

ESTIMATE

TO:

6.50  
CATALOG NO.

Chronica Botanica Company  
P.O. Box 151  
Waltham, Mass.

ITEM NO.

SEND TO:

ORDER DEPARTMENT  
GENERAL LIBRARY  
UNIVERSITY OF CALIFORNIA  
BERKELEY 4, CALIF., U.S.A.  
SPECIAL INSTRUCTIONS (FOR GENERAL  
INSTRUCTIONS SEE BACK OF SLIP)

JAN 23 1956

b11

BILL IN QUINTUPLICATE

HEAD ORDER DEPARTMENT

2079 Life Sciences Bldg.  
University of California  
Berkeley 4, California  
November 16, 1956

Dr. Frans Verdoorn  
P. O. Box 151  
Waltham 54, Mass.

Dear Dr. Verdoorn:

Thank you for the several reviews of the Nicotiana volume  
which you have recently sent me.

I would like to buy three additional copies of the book, one  
to be sent to Dr. O. H. Selling, Paleobotanical Section,  
Riksmuseum, Stockholm, Sweden, and the other two to be sent  
to me. Please bill all three copies to me at the author's  
price, plus postage.

With best wishes,

Sincerely,

THG:T