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#### *About the Institute*

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

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

STATION : S. R. CRANBROOK.

TELEPHONE & TELEGRAMS :  
SIBBINGHURST 23.

HOCKER EDGE GARDENS,  
CRANBROOK,  
KENT.

22nd July 1938

My dear Professor,

It was a very great pleasure to see you and Mrs Goodspeed here. I only wish that your stay could have been longer.

I have written to Messrs Van Houtte to ask them to quote for azaleas and to give an approximate price for shipping. I look upon them as being, in their own particular line, the best firm in the world. You will remember perhaps that last night we looked at Astilbes (Spiraeas) and you thought that they would suit your purpose. I feel sure that they will do so and if you decide in their favour perhaps you would be good enough to let me know how many you would like, on the basis of each plant requiring about 2 sq.ft. Their price nett, including the new varieties Fanal ~~and~~ retailed at 2/6d each and Koln retailed at 2/- each, would be £6:0:0 per 100, for really good plants which will readily occupy the 2 sq.ft.

Believe me, with very kind regards,

yours sincerely,

*Charles Price*

STATION: S. R. CRANBROOK.

TELEPHONE & TELEGRAMS:  
BISSINGHURST 23.

HOCKER EDGE GARDENS,  
CRANBROOK,  
KENT.

30th July 1938

My dear Professor,

I send herewith the prices of the plants you provisionally selected. We have already put <sup>some of our</sup> figures well below the normal catalogue price but I shall be happy to allow you 10% for prompt cash, packing and carriage at cost. You will no doubt let me know with regard to them and also with regard to the Astilbes. As to the lilies, their price is as follows:-

*C.R.H.* {  
25 chalcedonicum 88/-  
50 croceum (finest selected) 60/-  
50 pyrenaicum (large) 42/-  
50 Sargentiae (selected) 120/-  
50 umbellatum var. grandiflorum 30/-  
50 Willmottiae (extra selected) 90/-  
50 *Nutagn type* 32/-

With regard to these we can equally allow a further 10% for prompt cash.

Believe me,

Yours very sincerely,

*Ch. Perry*

Professor Goodspeed,  
The Priory Hotel,  
2 Priory Road,  
Kew, Surrey.

STATION: S. R. CRANBROOK.

TELEPHONE & TELEGRAMS:  
SISSINGHURST 23.

HOCKER EDGE GARDENS,  
CRANBROOK,  
KENT.

2nd August 1938

Dear Sir,

Colonel Grey has gone away for a short holiday. We have heard from Messrs. Van Houtte and they write as follows:-

"We would be very pleased to supply your friend with the plants he might be wanting, but fear that the forwarding to San Francisco will offer some difficulties. The voyage will certainly be very long, if the shipment has to go through the Panama Canal, and we do not know if the Azaleas will travel well and will flower satisfactorily if the plants are to be forwarded free of soil, which means that the roots have to be washed and afterwards wrapped in wet Sphagnum moss, as prescribed by the Quarantine Act 37. Since the existence of that famous Act we have not forwarded any Azalea plants to the U.S.A. and have not the slightest idea of the cost of that special washing and packing operation, but presume that one should reckon with about 50% of the value of plants.

The cost of sea freight and other expenses depends on the importance of the consignment, and an approximate idea as to the cost of the shipment could only be given after receipt of order!

The price of Azalea indica in assorted colours - carmine, pink, bright-red, lavender or white - for plants 12"-14" in diameter is 180/- a hundred on steamer at Ghent. They can be supplied to flower from mid-February to the end of April according to varieties.

Would you be so good as to let us know what you would like us to do? Our impression is that the plants should travel safely.

The price of Azalea mollis x A. sinensis with 15-20 buds, supplied to colour - blood-red, scarlet, pink or yellow - is 140/- a hundred. They flower in April-May.

We have received from America your own species, washed and without soil, and they have always arrived in wonderful condition; and we imagine that Messrs. Van Houtte are perhaps the most experienced shippers of any firm in Europe.

Yours faithfully,  
for Hocker Edge Gardens

Professor Goodspeed,  
The Priory Hotel,  
2 Priory Road,  
Kew, Surrey.

*D.B.*  
Secretary.

6-14-49

Boyer

\$12.00

15.9 11.50  
10.00

7043

22 TO 1.00

69/-

\$15.00

Kenner

\$130/-

12.50

\$ 10.00 100

15.00

\$12.00

\$ 28.00

9.00

4  
50

address → W. F. Stevens Esq.



By Appointment

# THE ROYAL SEED ESTABLISHMENT

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L. NOEL SUTTON  
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OWEN P. F. SUTTON



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MARCONI INTERNATIONAL AND BENTLEY'S COMPLETE & SECOND PHASE

2nd August, 1938.  
Br.

PROFESSOR GOODSPEED, A.B., Ph.D.,  
The Priory Hotel,  
2, The Priory, KEN.

Dear Sir,

Following on your visit to us on Friday last we now have pleasure in appending a list of varieties covering those which you saw in flower at our trial grounds both at Langley and Reading and others we suggest as being suitable for the particular object you have in view.

Varieties seen at Langley or recommended by Mr. Balfour.

- OK { Alonsoa, Sutton's Compact Scarlet
- "          "          Pink
- of letter { Anchusa italica, Dropmore variety
- "          "          Sutton's Royal Blue
- "          "          Sutton's Dwarf Blue
- doubtful { Arctotis, Sutton's Special Hybrids
- "          "          Convolvulus minor, Dark Blue
- "          "          "          Sky-blue
- "          "          "          Pink
- no - Cleome spinosa
- OK - "          pungens, Rose Queen
- no - Dahlia, Sutton's Dwarf Border Mixed
- "          Coltness Hybrids Mixed
- good - Delphinium paniculatum
- ? - Dianthus, Sutton's Brilliant fringed Mixed
- "          Salmon Queen
- "          Scarlet Queen

- Dimorphotheca, Sutton's Apricot
- " aurantiaca
- " " Sutton's Hybrids
- " chrysanthemifolia
- Echium, Sutton's Blue Bedder
- " Bedding Mixed
- " plantagineum, Sutton's Hybrids
- Eschscholtzia, Sutton's Fireglow
- " ~~Red Chief~~
- " ~~Aurora~~
- Eustoma Russelliana
- Gazania, Sutton's Hybrids
- Gentiana Hascombensis
- Gilia coronopifolia, Sutton's Hybrids
- Godetia, Sutton's Dwarf Salmon
- " Scarlet Glow
- " ~~Cherry and Crimson shades~~
- " Double Salmon
- " Kelvedon Glory
- " Sutton's Glue Gem
- Kniphofia gracilis
- " rufa
- Lavatera, Sutton's Loveliness
- Lobelia, Sutton's Large-flowered Cambridge Blue
- " Bright Blue
- Nasturtium, L 872 (Double Apricot Gleam)
- Nolana atriplicifolia
- " lanceolata
- Nicotiana, Sutton's Hybrids
- " affinis, Sutton's Scarlet
- " Crimson Bedder
- Oenothera macrocarpa
- " trichocalyx
- " riparia
- Pentstemon, Sutton's Large-flowered Scarlet
- " " Mixed colours
- Petunia, Sutton's Blue Bedder
- " " Crimson Bedder
- " " Dwarf Mauve
- " " Dwarf Brilliant Rose
- Phlox Drummondii, Sutton's Pink Beauty
- " " Salmon Beauty
- " " Scarlet Beauty
- " " Mauve Beauty
- " " Violet Beauty
- Salpiglossis, Sutton's Chelsea Hybrids
- " Dwarf Mixed
- Salvia, Sutton's Summer-flowering Fireball
- " Dwarf Fireball
- " patens, Cambridge Blue

no

back

OK  
splendid  
? 1 podgras good

S. squid to make a special mixture with new seeds included

?

splendid  
very fine, not a matter

I think this is the good dwarf one

? Bodgr

very fine

splendid

fine color combination

Scabious

Good	}	Scabious,	Sutton's Double Large-flowered	Coral Gem
		"	"	Cherry Red
no	}	"	"	Mauve
		Schizanthus,	Sutton's Pansy-flowered	Mixed Pink shades
sure	—	Swan River Daisy,	Sutton's Azure Fairy	
Good	}	"	"	Large-flowered
		"	"	Pale Blue
no	}	Annual Sweet William,	Mixed	Dark Blue
		Urginia,	Sutton's Special Hybrids	
very fruit	}	"	anethoides	
		"	pygmaea,	Sutton's Brilliance
Good	}	Vegetidium,	Sutton's Hybrid Art Shades	
		"	fastuosum	
no	}	Verbena,	New selection	
		"	Sutton's Giant Pink	" shades
		"	"	Blue.

Varieties seen at Reading.

Good	}	Lebelia,	Sutton's Large-flowered	Cambridge Blue
		"	"	Dark Blue
		"	"	Bright Blue
Belgr?	}	Petunia,	Dwarf Compact,	Brilliant Rose
		"	"	Violet
		"	"	Rosy Morn
four dwarf	}	Verbascum,	Sutton's Silver Spire	
		Dimorphotheca,	Special Hybrids	
		Althea (Hollyhock)	Delicate shades.	

We understand that after considering this list and making your selection you will be sending particulars to California, asking your assistant when ordering the necessary seeds to mention in each case the number of plants you wish to raise. On receipt of this information we would send the requisite quantity of seeds.

If there is any further information you would like to have before you leave this country please do not hesitate to drop us a line.

We would just like to say that we were very delighted to see both you and Mrs. Goodspeed and trust that you will have a very interesting journey through South America.

We are,  
Yours faithfully,

Page 4.

only greenhouse  
plants in  
Calif. also?

PS. We venture to remind you of the impression our Gesneras made on you when you were touring our greenhouses. They had spikes of orange-scarlet flowers and coleous-like foliage and you expressed the opinion that even in their pre-blooming stage they were quite ornamental. We believe they were somewhat of a novelty to you and you would probably find them very useful for decorative purposes. They flower in nine months in this country but in California this period may be shortened.

PPS. In case you have not a copy of our Catalogue by you we are sending one under separate cover by printed paper rate.

D. D. C.

Arch. 172  
3:68

UNIVERSITY OF CALIFORNIA  
SECOND BOTANICAL GARDEN EXPEDITION TO THE ANDES  
BERKELEY, CALIFORNIA

Aug. 3 1938

DIRECTOR

T. H. GOODSPEED

PROFESSOR OF BOTANY AND DIRECTOR

Dear Jock: I have seen so many plants and heard plants talked about to such an extent that I am about fed up!! I am enclosing letters which are self explanatory. As I think I told you I have been getting suggestions from many people which will explain the fact that some things are quoted on which you did not list. As to Lillium, Arnold Forster has very definite ideas as follows: testaceum from Pde Jager, Heiloo, Holland (at 32/6 per doz.), Maxwill (rather than Willmottiae) from Constable, martagon var Cattaniae from Van Tubergen and var. album superbum from Dobbie, umbellatum vars. and speciosum magnificum from van Tubergen, princeps var G.C. Creelman from firm in U.S. - he thinks that these are the things to show and that there is nothing to equal them as a list.??? You decide. I will write to Constable for quotations on the above and on some of the others on your original list. Forster thinks that the aurantiaca Alstroemerias will surely move successfully and give fine plants the first year and says that Clark's Nursery, Dover has a wonderful selection called Pride of Dover and Dover Orange which would be quite different from the Alstroemerias grown in Calif. Opinion continues to be divided as to Combers lectu hybrids and how they will move - all who know C. have every confidence in him, (I will write to Dover Nursery). Forster found a fine red flowered Hesperoaloe or Hesperoyucca called parviflora during his recent trip in U.S. It can be obtained from Nobles Nursery, Norman, Okla. - He thought we ought to show it at the Expos. I am much taken with the Astilbes - everyone says that they will not droop if well watered at night. They certainly would make a great show and last a long time. If you want the fine new Asters, Erigerons and Anchusas ask Morris Pritchard & Sons Christchurch, Hamp. for quotations on roots for spring planting as follows: Aster Bessie Chapman, Wonder of Staf; Erigeron Quakeress, Mrs H.E. Beale; Anchusa Morning Glory, Pride of Dover. I will get quotations on better Colchicums than those of Gray, if possible. As to Azaleas you note what Gray's people say. Everyone thinks that a selection of Van Houtte's plants would be a revelation to us. The mollis-sinensis type would also be fine but I don't care for them myself as much as the others. A quotation on Lillium and some other things from Knap Hill has not come in yet - I will send it as soon as recd. As to annuals I will mark Suttons list in various ways. John Bodger and I had dinner yesterday and he says, as I knew, that he sells S. many of the things on this list and will give them all to us and still better newer vars. not yet intrade. I suggested we buy what we want and he said all right - he can bill them to us thru Germaines. Bodger told me to have you get into touch with Eliz. and Denham and make your selections. Some fine things I know that B. hasnt got. Suttons say that if you tell them how many plants you wish to produce they will give a price on nec. quantity. I believe that they will give a discount in view of publicity to them. I think in every case I would, when ordering, say that if a sufficient discount is given we are authorized to acknowledge the source of our plantings with a label giving name of firm etc, otherwise not. Tom Hay (Hyde Park) is sending seed of a few things he thinks very fine. Had a fine time at Col Messel's wonderful estate in Sussex. Am sending seed coll. there and he will send more. I cant get as excited about ~~the~~ Eucraphia as the English do!! Best to you and your Lady, and greetings to all

Yours,

T. H. G.

*I will write to van Tubergen, Dobbie & all others referred to asking them to send quotations to you direct.*

*HS - This has been ordered  
for you air mail to catch up  
with the quotations from*

Q U O T A T I O N

3rd August 1938

To:- Professor T.H. Goodspeed,  
(University of California.)

*There must be a few days  
ago via slow mail - these*

---oOo---

*figures on cost of  
shipping & packing  
should be useful*

*H.S.*

LILIES

25 chalcedonicum <sup>c</sup> .	@ 400/- p.100	.. 2	5. 0. 0.
50 croceum <sup>c</sup>	120/- "	..	3. 0. 0.
50 Hansonii <sup>c</sup>	210/- "	..	5. 5. 0.
50 pyrenaicum <sup>c</sup>	120/- "	..	3. 0. 0.
25 Sargentiae <sup>c</sup>	345/- "	..	4. 6. 3.
25 testaceum <sup>c</sup>	300/- "	..	3.15. 0.
50 unbellatum erectum <sup>c</sup>	55/- "	..	1. 7. 6.
50 - grandiflorum <sup>d</sup>	55/- "	..	1. 7. 6.
50 - splendidum <sup>c</sup>	80/- "	..	2. 0. 0.
50 - Vermilion Brilliant <sup>c</sup>	80/- "	..	2. 0. 0.
25 Maxwell <sup>c</sup>	300/- "	..	3.15. 0.

These 450 Lilies will pack into one case and weigh approximately 500 lbs.

The approximate cost of transport to San Francisco will be .. .. .

4.10. 0.

£ 39. 6. 3

AZALEAS

per 500

As per quotation, 24-30" @ 235 per 100..£175. 0. 0.

Cost of lifting, washing out roots, balling up in peat and packing for export .. .. . 12.10. 0.

5 cases for packing .. @ 15/- ea. .. 3.15. 0.

Transport to Docks (approximately) .. .. . 1.10. 0.

Freightage from Docks to San Francisco, per cold storage, via Panama .. .. . 16. 5. 0. £209. 0. 0

£248. 6. 3

3rd August 1938

QUOTATION FOR:- Professor Goodspeed (ct'd.)

-2-

*See Goodspeed  
12/12/38*

ALTERNATIVE QUOTATION FOR AZALEAS.

	per 1000
As per quotation, 24-30" @ £35. per 100..	£350. 0. 0.
Cost of lifting, washing out roots, balling up in peat and packing for export .. .. .	25. 0. 0.
10 cases for packing @ 15/- ea. ..	7.10. 0.
Transport to Docks (approximately) .. ..	3. 0. 0.
Freightage from Docks to San Francisco, per cold storage, via Panama .. .. .	31.16. 0. <u>£417. 6. 0.</u>

HERBACEOUS PLANTS.

As per attached quotation.

Cost of lifting and packing for export  
and freightage to San Francisco in cases  
of 500 lbs. .. .. . £5 each case

INDICUM AZALEAS.

We can offer Indicum Azaleas in one white,  
one picotee, one salmon-pink and one scarlet  
variety, nice plants, 12-14" in diameter,  
with 25-30 buds at least and from 1½-2' in  
height at .. .. . £15 per 100

It is regretted that the growing House state  
that they are unable to give us the cost of  
freightage to San Francisco. We, however,  
estimate that the cost of 500 of these would  
be exactly the same as the 500 Azaleas plus  
approximately £25 for freightage and duty,  
from the growers in Belgium. We regret that  
we cannot give you a clearer quotation.

The Belgian growers inform us that they cannot

3rd August 1938

QUOTATION FOR:- Professor Goodspeed (ct'd.)

-3-

send via Panama. The only way we  
can do this is to have them sent to  
London and exported by our Shippers via  
Panama to San Francisco.

The above prices are less a 20% discount on Plants Only.

-----

QUOTATION for EXPORT to CALIFORNIA.

		per 100
X	<u>Azaleas</u> in var. 18/24" <i>m</i>	£30
	24/30" <i>m</i>	£25
	30/36"	£40
	<u>Trollius ledebouri</u> Golden Queen.	60/-
	<u>Kniphofia</u> Coral Queen.	50/-
	Gold Else.	50/-
	Rufa.	75/-
	<u>Korean Chrysanthemums</u> ( Spring)	150/-
	<u>Asters</u> , dwarf.	
	Countess of Dudley	50/- <i>12.50</i>
	Lady Henry Maddocks.	50/-
	Lilac Time.	60/-
	Little Bix Blue.Baby.	60/-
	Marjorie.	50/-
	Nancy.	50/-
	Ronald.	60/-
	Snowsprite.	50/-
	Victor.	50/-
	<u>Tradescantia</u> , J.C. Wegnelin. <i>m</i>	60/-
	purpurea.	50/-
	Leonora.	55/-
	<u>Astilbe</u> . Betsy Cuperus.	70/-
	Granat.	75/-
	Prof. van der Wielen.	60/-
	Ceres.	60/-
	Grandis rosea magnifica.	75/-
	Marguerite van Rechteren.	60/-
	Salmon Queen.	60/-
	<u>Mentbretia</u> .	
	E. A. Bowles.	90/-
	Cecile.	80/-
V.R.	His Majesty.	55/-
V.R.	James Coey.	55/-
	Jessie.	75/-
	Lady Churchill.	100/-
	Lady Wilson.	80/-
	Nimbus.	100/-
	Peter.	85/-
	Pocahontas.	80/-
	R.C. Notcutt.	100/-
	Sir Matthew Wilson.	80/-

Less 20% -- plus all charges for Packing and Carriage charged forward.

-----000-----

X

These Azaleas were raised originally from calenquleacea x occidentale. They are larger-flowered than the so-called "Ghent" Azaleas, i.e. coccinea speciosa, etc. (vide E.H. Wilson's monograph).

August 11th, 1938

Botanical Garden,  
Strawberry Canyon,  
Berkeley, California.

Prof. T. H. Goodspeed,  
#2 Priory Road, Kew,  
London, England.

Dear Dr. Goodspeed:

Many thanks for your welcome letter of July 24th. I was pleased to learn that you were able to see some of the better gardens in England and Ireland, and hope that you can find time to go North and visit the R.B.G. and other famous Scottish gardens. If you happen to be in the South of Scotland, be sure to see the Balfour Estate at Dawyck in Peebleshire, it is only an hour's run from Edinburgh and has one of the finest collection of trees in Britain.

Regarding the Alstroemerias, Comber strikes me as being a pretty good source of supply, and I intend to put through a requisition for 500 of his selection. I regret to say that todate the imported Alstroemerias have been most disappointing. They have arrived either badly broken or much too wet. Apparently all that the clumps require for protection during shipment is a covering of damp not wet moss or possibly some damp peat. Of the other items you mention, I would suggest that you order the Oxalis adenophylla and O. enneaphylla (24 of each); Bravoa geminiflora (48); Corydalis nobilis (100); Colchicum speciosum var. album (100); Colchicum Bornmulleri (100); Diplarrhena Moraea (24); Gladiolus Colvillei var. Beauty (200); Kniphofia Galpinii (24); Sprekelias could be procured in California. Cypellus and Hippeastrum advenum we already have.

The newer annuals of which you write should be of great value to us since we are a little shy of material for Fall display at the Fair. I have already ordered Azaleas from the Cottage Gardens and Armstrong's, but if you run across some of the newer types of Indicas or any other types for that matter, it would be great to have one or two plants of each - that is, providing it will not be too much trouble to import them.

Regarding Lady Byng's request for material of Fuchsias, Betulas, Calceolarias, etc., shall I go ahead and get them ready and ship to Thorpe-le-Sken ?

The work is going along fine at the Garden and every one is cooperating in grand style. The new cold frames are installed and the glass houses in course of construction. The

August 11th, 1938

Prof. T. H. Goodspeed.

Primulas, Fuchsias and all the bulbs so far received from South America, are growing nicely and give promise of being in good condition for next year. Alec and his crew are busily engaged boxing Rhododendrons and Azaleas. Fenton is working out very nicely and certainly turns out the work. There is a possibility that he may require an assistant during the rush period. He has managed, however, to keep ahead of the importations. The busiest period of Nicotiana work is over and Phil is helping a great deal in a number of jobs around the Garden. So far, the new proposed W.P.A. landscaping project for the Garden has not come forward, but Mr. Gregory informed me that it might become effective very soon. In a recent telephone conversation with Mr. Corley, he told me that he had made final arrangements for the release of the C.C.C. Barracks. All we can do now is wait for word from the powers that be.

In 1937 we received tubers of Begonia sp. from the Argentine. It has been flowering this Summer and, while the flowers are not anything special, they have a decided fragrance reminding one of a rose. The perfume, which is very noticeable in the morning, disappears as the day advances - even so, it is very interesting and valuable since fragrant tuberous Begonias are a rarity in the trade. We have received another tuberous Fuchsia species from Wagenknecht. The Herbarium specimen shows this species to have a salmon pink flower  $5\frac{1}{2}$  in. long. If we can manage to bloom this for next year, it ought to cause quite a sensation.

While you are at Kew, could you purchase one of the catalogs giving all the genera and species grown in the Botanical Garden? If I remember correctly, the lists are so arranged that every other page is blank. It would make a handy check-list for our own garden.

With best regards to yourself and Mrs. Goodspeed, and wishing you the best of luck, I remain

Sincerely yours,

PHB:FL

September 28th. 1938

Botanical Garden,  
Strawberry Canyon,  
Berkeley, California.

Professor T.H.Goodspeed,  
The American Consulate,  
Buenos Aires,  
Argentina, South America.

Dear Dr. Goodspeed;

I would have written to you sooner but thought it best to wait until you had reached South America. Judging from our newspaper reports it seems that you left Europe just in time. I hope that you had a pleasant crossing with calm seas and no sea-sickness. The weather in Berkeley has been quite hot until the last few days. Yesterday we had our first rain, not much, just enough to lay the dust and warn us that we had better begin our preparations for the rainy season to come.

The importations from South America are becoming less and less and with the exception of the Alstroemerias have arrived in good and are growing well. We received 500 Alstroemeria ligata Hybrids from Constable last week. They had been washed free of soil and packed in slightly moist peat, and they arrived in excellent condition. Two weeks ago some 30 Puyas arrived from South America and although the roots were dried off and dead we trimmed them off and there is every chance that at least 28 will grow and perhaps about 10 will flower next year. All our big items for the Fair have been potted etc. with the exception of Liliacs and some Azaleas. The Rhododendrons we intend to leave a wee while longer until growth is complete then burlap and insert in boxes. Domoto has consented to loan the Garden a selection of tubed Camellias for the opening on Feb 18th., and these combined with some Camellias from Armstrong and Azaleas from the North will constitute the first planting. Other Garden work is going along steadily and to-date we have one side of the entrance way landscaped. All members of the staff are keeping their end up and we hope that when you return the Garden will have improved somewhat in appearance.

The California Commission has finally decided that they want a 10 month flower show and Mark Daniels with the assistance of an Advisory Committee (of which I am a member) has been appointed to supervise the details. The building is to be about 200ft. by 120ft. in area and of Celloglass construction. Judging from reports by growers and Garden Clubs on the Pacific Coast there should be no lack of material. The Oakland Show is to be held as usual, and if it is at all possible we might.



October 18th, 1938.

Botanical Garden,  
Berkeley, California

Professor T.H.Goodspeed,  
c/o The American Consulate,  
Buenos Aires,  
Argentina, South America.

Dear Dr.Goodspeed;

While talking with Toichi Domoto a few days ago, he informed me that the Japanese Landscape Architect, who has been specially brought from Japan to design the Japanese Garden at the Exposition, has offered, free of charge, to design a Japanese Garden at some point of public interest in the State of California. I immediately thought of the proposed Landscape Project which the W.P.A. Administration had mentioned previous to your departure. As you recall, the W.P.A. offered to put about 30 men to work under this scheme and pay the Garden \$7.00 per man for equipment. That is, \$7.00 per man per month for material. I have approached Dr. Pomeroy concerning this matter and he feels that the Landscape Project might become effective in about 2 months time and that there would be no objection to the unpaid supervision of this Japanese expert. I have since talked to Toichi Domoto and he tells me that the Japanese Architect is willing to supervise the installation provided that the two Japanese gardeners, who have also come from Japan, are employed to place the stones and plants. Toichi tells me that this would cost the Garden \$5.00 per day for each man and would take approximately one month to install. The Japanese group hope to complete their work at the Exposition around February 15th 1939, and after that would be free to do the construction after that date. Do you think that this scheme is worth considering, and could you reply by return Air Mail ?.

This scheme may not appeal to you but my Scotch nature kept me from letting this offer pass without first of all notifying you. With best regards to Mrs. Goodspeed and yourself.

Sincerely yours,

November 29, 1938

Dr. H. L. Lyon, Director  
The Hawaiian Sugar Planters'  
Experiment Station  
Honolulu, Hawaii

Dear Sir:

We are in receipt of a letter from Dr. Joseph F. Rock, requesting that we forward to you seeds of Acer pentaphyllum of which he sent us a small packet some months ago. This seed has either been planted or passed on to others so that we have none on hand. The seedlings are not yet in condition to be shipped and it is advisable that they be left here for another year. We will try to send you a few of them during the winter of 1940.

Very truly yours,

Secretary to T. H. Goodspeed

ML/lw

January 11th. 1939.

Botanical Garden.

Dr. T.H. Goodspeed,  
c/o The American Consulate  
Valparaiso,  
Chile, South America.

Dear Dr. Goodspeed;

Mrs. Locke has informed me that you would like a report on the Puyas, Alstroemerias, Lapagerias, and Hippeastrums which were sent from South America.

Puyas; When the plants arrived it seemed that the old leaf bases had been burned off since the stems were charred black. Upon examination, we discovered that the core was still alive so we removed the roots, which were completely dead, and inserted the plants in a warm sand bench as cuttings. All the plants had a tuft of fresh green leaves on the end of the stem and it is quite possible that we will succeed in rooting a number of the cuttings. To date, only three have formed small roots and the remainder are still unrooted. I don't think they will form flowers this year.

Alstroemerias; Practically all the shipments of Alstroemerias from South America have been a total loss. The roots, upon arrival, were found to be either badly broken or completely rotted. The fleshy roots were usually broken and separated from the crowns and, since the roots cannot be made to form new "eyes" they were discarded. We have about 50 plants growing strongly in 5 gallon cans and 45 plants of a dwarf species from Vargas. On the other hand, of the 500 3 yr. old seedlings received from Constable of England, only 3 roots have been lost. The remaining 497 are in 5 gallon cans and large pots, and have growths from 4 to 12 inches long and as many as 6 shoots to a plant. Alstroemerias grown from South American seed are growing fast and many should flower this year.

Lapagerias; One plant was received in fair condition and was divided into two. They are now in pots and the roots, dormant at this time of year, are plump and fresh. There are buds at the base of last year's growth and we hope to have sufficient growth so that flowers may be seen this year.

Hippeastrums; This shipment of Hippeastrum Vittatum Hybrids arrived in good shape and out of a total of 1167 bulbs only 30 were rotted. The bulbs made good growth and are now going into their resting stage. They are in 7 inch pots which are full of thick fleshy roots. Since they are from over the line we do not expect them to blossom until June or July. About 20 were allowed to blossom last year and without exception they were of a deep scarlet shade.

The majority of bulbs imported from South America have done very well. They are mostly in pots and are now resting after making good root systems. We ought to have some splendid displays of such genera as Penzance, Urceolina, Eustephia, Hippeastrum (species), Hymenocallis, etc. The tuberous rooted Fuchsias are beginning to grow and judging from herbarium specimens, ought to cause a sensation at the Exposition.

Dr. Goodspeed (contd).

I suppose you have already learned that Stephen has started to work at the Garden. He is assisting in the preparation of plant material for the Exposition. I hope that you will not think it too presumptuous of me in engaging Stephen, but, since his spare time employment had been discontinued and since we require extra help for the Exposition, I thought he could profitably spend his spare time at the Garden or Fair Grounds helping to install and change the exhibits. Dr. Davis did not think that there would be any objection from Cal. Hall since the money would come from Exposition funds. He commenced last Monday and has taken hold very nicely. After his classes start next week, he will probably be able to work about 3 days per week. His salary is \$5.00 per day on an hourly basis.

We intend to move our biggest plants to the Fair Grounds about the last week in January and will store material for future displays in both houses which have been provided by Mr. Daniels. The large Rhododendron Fragrantissimum have been removed from the courtyard at L.S.B. and will form the mass against which will be planted Camellias and Azaleas for the opening date.

The weather has been very summery and it will probably be just our luck to have continuous downpours about the time for installing our exhibits. The work is moving along very nicely at the Garden and so far the various areas in the Garden have not suffered because of the Exposition work. Hoping this finds you and Mrs. Goodspeed in the best of health, with best regards,

Yours sincerely,

P.S. Stephen sends his best regards.

Jan 7 1937

1/23/37

Thank Jock for interesting and encouraging letter and tell him:  
black stains on Puyas = fungus which is almost always present  
in plants in the field.

everyone here contends that these Puyas will flr. (if flr.  
stalk is formed when plant is collected) either in or out of soil,  
they stick the rootless plants right into the garden soil or hang  
them up in shade and they bloom. Jock should go in the same assumption-  
<sup>i.e.</sup> lack of roots means little or nothing.

Reed says more Hipp. bulbs were sent than Jock reported rec. -  
forgotten the order via Reed but might look up possibility of a claim  
as stolen if enough is involved.

Glad the English Alstromerrias are ok. and that Lapagulia <sup>gonia</sup> is  
also - Reed has at least 10 more ready to ship -? do we want them if  
it involves as much fuss as before? Jock - and to me, please.

Glad Steve can work in Expos. plantings, pleases me very much -  
I knew he hoped to get this work but had not heard from him as to out-  
come.

There are quite a lot of fine annuals of which seed has been  
or will soon be sent - will it pay to try to grow any of them for fall  
Expos. planting, if so let me know at once and I will send suggestions  
as to which spp. or #s are best or send special seed - i.e. we have  
just <sup>collected</sup> ~~coll.~~ seed of fine *Schizanthus*, *Malesherbia*,  
*Solidieranthus*, *Malesherbia*, etc. which  
ought to create a sensation but perhaps too late to try to grow annuals?  
As I remember it Jock plans a showing of *Calceolaria*s, primarily, in  
late summer but if there is time to grow them, we have more spectacular  
annuals now.

Jock  
?

Begin planning on method of getting back from Exposition all  
plant material (esp. bulbs etc) which are good enough to be distributed -

I hope we can give away enough to garden clubs & donors to make a real impression. If the S.A. plantings at Expos. are successful there will be great interest in obtaining the plants and we should be in a position to distribute a lot next spring. However, we should hold a quantity of everything good to obtain an increase for later distributions to sc. institutions etc. All this can wait until my return; I have been away so long and in such different environment that it's hard to realize that I will be back in plenty of time to get mixed up in the Expos. plantings.

I have written Mrs. Knight that Jock will keep her informed of best times to see the best of our Expos. plantings so that she can pick out things she would like to grow at St. Barbara - she probably won't return to Calif. before March or April but please have this matter in mind.

Valparaiso  
Jan. 24/39

Jock -  
Concerning planting - keep.

Dear Miss Avery: - I have checked your syl. planting suggestions with mine and they fit quite well. It seems to me that with the eight (only) populations of syl. there should be time for checking up on back work and also attention to cyt. of new and old species. I would very much appreciate it if you and Jock would be responsible for sowing germination and other growing records (as needed), planning the field, planning the area for "flat" cultures and getting the plants out. Miss Wheeler will pass on to you her recent experience and will help with selection of seed of new and old spp. lines. She is working for me 1/4 time during February and thereafter is putting in full time on her own work. I am sure, however, that she will be glad to advise at any time. You must bear in mind that Jock and his staff will be busier than usual and that greenhouse space may be at a premium at critical Nicotiana periods; also, that Jock (however carefully he has made his advance plans) may find himself in difficulties for help and space not anticipated - i.e. there will have to be more give and take than usual so far as fitting the Nicotiana plantings into the garden routine is concerned.

The biggest planting problem is the new material from the Expedition. Much of the new Chilean seed (Central Chile) will be of the corymbosa assemblage which is always rather difficult to grow. Perhaps Miss Wheeler feels she can make suggestions in this corymbosa matter - it seems to me that the seed should be germinated late when there is plenty of sunlight and dry heat during seedling stages, it seems to be the moisture in the greenhouse that causes such unfavorable growth of this group which is primarily a high mountain, short growing season plant of well drained soil. I now have seen so many extreme

variants of the "type" of corymbosa that sooner or later I want very much to see all or most of the seed collections grown together under uniform conditions to see whether or not they will merge morphologically. Perhaps that had best wait for another year or at least until my return (in June, probably) when I may have time to fuss with them. I am enclosing a fairly specific list of planting suggestions which will be subject to such alteration as seems necessary to you, Miss Wheeler and Jock. I do not know just what is the present distribution of Miss Bradley's time but a part of it should be available for assisting you in sowing, etc.

Planting suggestions, 1939

(1) Selfed seed:

tabacum purpurea

tabacum Machu Picchu

paniculata ("typical" from 1st Exped.)

glutinosa (pink & yellow)

rustica pumila

rustica Ecuadorian

longiflora ("typical" from 1st Exped.)

acuminata " " " "

Caudigera

plumbaginifolia

"Beauchamp sp."

otophora (seed plants used in xs) - 3 to 5, field; 5 - 8 flats.

(Miss Wheeler may have additional suggestions, esp. as to old spp. needed for xs).

(2) New or original seed (more or less identified)

A. thyrsiflora (all collections), total 25+, field

otophora " " " " "

"Beauchamp sp." (resowing original seed) 25+, field

bonariensis (Cabrera & Burkart Colls.), total 25, flats

solanifolia (at least 2 of M & W colls), 15+ field, 10+ pots.

B. "Corymbosa assemblage" & acuminata:- grow only from packets marked "var." or "n. sp.?" and from packets (going air mail soon) marked "sow" - all for flats (cf. enclosed letter),

# dependent on germination & seedling success, sow late (" ").

- C. E & B seed colls.: - all and esp. Pat. colls. when red. (cf. otophora, (x), above) - total 50-100, field.
- D. S & H seed colls.:  
 no tomentosa (unless noted as very important)  
 no paniculata " " " " "  
 no glutinosa " " " " "  
 of remainder only those noted as variants or determined from herb. specimens as worth a trial - total 50-100, field.
- E. Ruiz (Mendoza): -  
 Spegazzinii (all packets), total 25+, in well drained flats  
 "pampasana" " " , 10+ each in same  
 Cavanillesii (all packets marked as variants or interesting),  
 10+ in some or in special field plot  
 "n. sp." & anything else marked interesting or important,  
 total 25+, in same - i.e. Most in flats only.
- (3) New & Old F<sub>1</sub>s: - everything important and esp. F<sub>1</sub>s of otophora and "Beauchamp sp." - total # and field vs flats to be det. by Miss A., Miss W.
- (4) Amphidiploids, etc.: - all, 10+ each in flats, ? some in field
- (5) Sylvestris:  
 original syl. 25, field  
 new syl. 25, field  
 8 populations, 50 each field for 12th primary  
? representation of 5+ most striking primaries, field,-  
 we must remember in this, and in other connections, that because of Expos. we may have a considerable number of visitors to whom we would like to demonstrate at least some of our cytogenetic work, Miss Avery to consider this point.

(6) Australian: -

    app. and variants

    hybrids - all in flats (?), number in each case to be determined by Miss Wheeler, who should also consider above research as applicable to Australian spp., etc.

(7) X-Ray derivatives:- to be taken care of by Exposition exhibit.

    Note (1) & (2) are entirely from memory and subject to correction and esp. addition - Miss Wheeler to decide what is most important.

    Tomentosa additions can wait another year (or be started in the summer).

Suggestions - field work, 1939

- (1) routine notes on germination, etc, on mature morphology and on evidences of relationship - all cultures
- (2) cytology new material - PMC and root tips
- (3)     "     F<sub>1</sub>s - PMC
- (4)     "     Sylvestris - Miss Avery to determine
- (5)     "     Australian - Miss Wheeler     "
- (6) Attempt to determine growth requirements of difficult spp.

February 28th. 1939

Botanical Garden.

Prof. T.H.Goodspeed,  
c/o The American Consulate,  
Valparaiso,  
Chile, South America.

Dear Dr. Goodspeed;

The first rush on the installation of plantings at the Exposition is over and we are catching up on various plantings at the Botanical Garden. We managed to complete the exhibits on the Friday evening prior to the opening of the Fair on Feb. 18th. In the four large beds situated in the California State section we planted 1000 Azaleas and 80 Camellias. For added shade and background we used 16 White Birches and 8 of the large Rhododendron Fragrantissimums from the courtyard at Life Sciences Building. Some of the Camellias and Azaleas are now in bloom and it is hoped that this display will carry us over until April 1st when we intend to plant about 4000 Primulas, Candelabra types and Auriculas. By so doing, we will not require to disturb the Rhododendrons in the Dell, which is just as well since the move would not do them any good, and it will also save us additional labor and expense. So far, Mark Daniels has not provided a man for the maintenance of the exhibit but we are getting by with the assistance of one State gardener who sprinkles the plants daily. Other work such as watering and cleaning off old flowers we do ourselves until such time as a man is supplied by Mark Daniels.

The exhibits in the Hall of Science are doing nicely. Our first lot of Nicotianas lasted only one week due to the low temperature and lack of proper illumination. This week, however, they are going to install arc lamps of greater power and we hope that they can be prevailed upon to leave them on night and day. The Cacti and Succulent exhibit worked out very well, but we found that a glass screen will be necessary since we have lost one Euphorbia obesa already -- some souvenir hunter I suppose.

The Floriculture Building opened on time but with a very small showing of flowering plants. There is a great deal of ill feeling and criticism among members of the Executive Committee and various nurserymen. There are faults on both sides it seems. Lack of diplomacy and experience on the part of various Garden Club members and lack of push and co-operation on the part of the nurserymen. I hope it straightens out because it really is a worth while scheme for everyone concerned. We are sending over various plants as they come into bloom for display in the building.

We finally received an official O.K. to occupy the two C.C.C. buildings and we commenced moving over our equipment last week. One side of our landscaping by the entrance way is complete, and when we finish moving the old corporation yard from its present site we will start to grade and plant that area. This entrance way should be a big improvement to the Garden. At the present time we are concentrating

on the Rose Garden. All Rosaceous trees and shrubs are being moved to this location and we hope to have it completed in about three weeks. The spading of the Dell is almost completed and from all appearances we ought to have a fine showing of blossoms this year. Last year we planted several *Calceolaria tomentosa* in the Dell. There is now a small colony of plants ranging in height from 9' to 11'. Axillary shoots are appearing and it is hoped that there will be a good show of flowers very soon. There are several other *Calceolaria* species in the Herbaceous Garden which are very fine, particularly *C. pristiphylloides*, *C. myriophylla*, *C. engleriana*, and three un-named species. They have caused a great deal of comment and should prove of merit to Californian gardens.

The various South American bulbs are just coming out of their resting stage and I am looking forward to their blooming. Perhaps you have heard that the genus *Hippeastrum* has been changed to *Amaryllis* and that in the new issue of *Herbertia* there is a key to this new arrangement. The *Leucocorynes* are beginning to bloom. To date most of the flowers have been in shades of lilac and lavender with a sprinkling of whites and only one pot has had flowers of the large blue and white type. There are still many more to bloom yet however.

Jack Whitehead, the new man who took Alec's place, is proving very valuable to the Garden. If only we had four more men like Whitehead and Fenton, we might get a great deal more accomplished. Stephen is accomplishing a great deal in the preparation of material for the Exposition and is really turning out the work in his quiet unassuming way.

Lack of rain this season is becoming very serious. To-date we have had only 9 inches of rain, this is only one third of what we had last year at this time. I hope we have some more before long since we have already commenced sprinkling in the Dell and I'm worried about the water bill. Perhaps we will have a wet March.

With best regards to Mrs. Goodspeed and yourself,

Sincerely yours

May 10th, 1940

Botanical Garden,  
Strawberry Canyon.

Memo. to Dr. T. H. Goodspeed.

RE: ALSTROEMERIAS

Regarding Alstroemeria ligtu angustifolia hybrids, we have had a great many requests for tubers, seeds, etc., from amateur and professional growers. Because of the apparent interest in this particular variety, might it not be wise to harvest all available seed this year and offer for sale at so much per packet? In this way, such inquiries could all be answered in the same fashion. I doubt very much if we could spare the time to dig tubers for distribution. In any case, it would be difficult to handle without a great deal of trouble.

We could, however, suggest that they order tubers direct from W. A. Constable, Ltd., Tunbridge Wells; however, this may affect the sale of our seed ??? The following brief statement concerning growth of this variety might be helpful:

They require the same conditions as other Alstroemerias, but our experience has been that they are stronger growing, have heavier stems and more blossoms to the stem than any existing variety. The colors range to shades of pink, yellow, orange and flame. I notice from the catalogue of Orpet's, at Santa Barbara, that he is offering plants selected from this strain at 30¢ apiece. I have an idea that his stock is probably limited.

---



Mr Cotton

The Fuchsias you obtained for  
New from T. H. Goodspeed, Dept of Botany  
Univ. of California,  
Berkeley,  
U.S.A.

have all failed with us.

These were No 36-1892 *F. austromontana*  
36-1771 *F. santa-rosa* <sup>n. sp.</sup>  
38-1052 *F. sp.*  
39-1026 *F. macrantha*.  
36-1901 *F. chloroloba*  
36-1900 *F. leptopoda*.

Do you think it is possible to secure  
a fresh lot? some of these stumps did  
start to grow but afterwards failed.  
I am particularly desirous of these  
plants as being both rare & new.  
As far as I know *F. macrantha* is the  
only one previously in cultivation  
in this country & that sp. has been  
lost to cultivation for 50 years.

C. P. Raffaele  
28/8/40



ROYAL BOTANIC GARDENS,

KEW, SURREY.

All communications should be  
addressed to—

THE DIRECTOR,  
quoting the following number :

1st April, 1940.

*To York  
(? send)*

Dear Professor Goodspeed,

Mr. C. P. Raffill, the Curator in charge of the Temperate House, has handed me the enclosed memo. with regard to the fuchsias you so kindly sent us a year ago. You will see we have had bad luck with them and were not successful in getting cuttings from the old stems. I do not know whether it would be possible for you to supply us with any fresh material. I am afraid it is rather late to send old plants, but perhaps if you had any to spare they would still "break" and we could get cuttings. Raffill, though over 60, is as keen as mustard and I should like to feel that he has some of these new introductions of yours in cultivation before the time comes for him to retire.

I hope you and Mrs. Goodspeed and your family have had a pleasant winter. I know you sympathise with us all in Europe and that the international situation must affect you also.

With kind regards.

Yours sincerely,

*A. S. Cotton*

Prof. T. H. Goodspeed,  
Department of Botany,  
University of California,  
Berkeley,  
U.S.A.

SUCCULENT PLANTS FOR STATE FAIR -

SACRAMENTO, CALIFORNIA ..... AUGUST--1940.

4 Sedum.  
 14 Echeveria  
 2 Furcraea Wisnana  
 1 Hesperia  
 1 Acaecium  
 4 Cassia  
 1 Pachyphytum  
 2 Kalanchoe  
 1 cotyledon  
 1 Monanthes  
 1 Aloe  
 1 Gynura  
 2 Dudleya  
 3 Hesperia  
 5 Euphorbia  
 1 Agave  
 3 Sanseveria  
 1 Yucca  
 1 Sedum  
 1 Rochea  
 1 Sanseveria  
 1 Hesperia  
 24

- |                         |                             |
|-------------------------|-----------------------------|
| - Sedum hispanicum      | - Crassula hemisphaerica    |
| - Sedum album           | - Haworthia turgida         |
| - Echeveria nivalis     | - Haworthia tessellata      |
| - Furcraea sellosa      | - Haworthia engleri         |
| - Echeveria derenbergii | - Echeveria hoveyi normalis |
| - Stapelia sp.          | - Euphorbia sp.             |
| - Aeonium sp.           | - Agave muelleriana         |
| - Crassula monticola    | - Sempervivum arachnoideum  |
| - Pachyphytum oviferum  | - Sempervivum calcareum     |
| - Kalanchoe marmorata   | - Sedum griseum             |
| - Cotyledon sp.         | - Sempervivum wulferi       |
| - Monanthes muralis     | - Echeveria setosa          |
| - Aloe Thorncroftii     | - Yucca harrimannii         |
| - Echeveria kewensis    | - Echeveria "Chocolate"     |
| - Graptoveria gigantea  | - Euphorbia grandicornis    |
| - Echeveria coccinea    | - Furcraea gigantea         |
| - Echeveria hybrid      | - Sedum oxypetalum          |
| - Dudleya cotyledon     | - Gasteria cheilophylla     |
| - Dudleya Greenei       | - Euphorbia aggregata       |
| - Echeveria sp.         | - Euphorbia coerulescens    |

40 P l a n t s .

- |                        |                          |
|------------------------|--------------------------|
| - Crassula columbariae | - Sanseveria subspicata  |
| - Rochea falcata       | - Bryophyllum tubiflorum |
| - Euphorbia meloformis | - Echeveria palmeri      |
| - Crassula schmidtii   | - Echeveria ovalifolia   |

for Mr. Perry

EUPHORBIA SPP. AVAILABLE - AS CUTTINGS:

- Euphorbia cereiformis
- " ornithopus
- " xylophyloides
- " resinifera
- " tirucalli
- " caput-medusae
- " aggregata
- " coerulescens
- " ledienii
- " ferox
- " meloformis - (Small plant)
- " ammak
- " natalensis
- " spinosa
- " esculenta
- " mammillaris
- " triangularis
- " tetragona
- " pseudocactus
- " pseudo-medusae
- " frankiana

M E M O R A N D U M

Oct. 9th, 1940.

Prof. T. H. Goodspeed:

In Re: Alstroemaria Ligtu Angustifolia

Seed on Hand: ----- 6 lbs.

Suggested Price: ----- \$70.00 a lb. at the lb. rate.  
5.00 an oz. at the oz. rate.

Suggested sources of contact:

Ferry-Morse Seed Co.  
500 Paul Avenue,  
San Francisco, Calif.

Bodger Seeds, Ltd.  
El Monte, California.  
Attention: Mr. J. C. Bodger.

Waller-Franklin Seed Co.  
Guadalupe, California.

Atlee-Burpee Seed Co.  
Lompoc, California.

McDonald Seed Co.  
Santa Maria, California.

David B. Hill Seed Co.  
555 Davis Street,  
San Francisco, Calif.

H. A. Dreer Seed Co.  
Riverton, New Jersey  
Attention: Mr. Jacques L. Legendre.

Swiss Floral Farms  
Portland, Oregon  
Attention: Mr. Bacher.

Lagomarsino Seed Co.  
Sacramento, California.

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MEMORANDUM

October 11, 1940

Dr. T. H. Goodspeed:

Dear Dr. Goodspeed:

The enclosed letters are self-explanatory.  
Enclosed package contains about 500 seeds  
of the required species. They were gathered from this year's  
fruits.

In writing Mr. Pyle, it might be of interest  
to him to know that our collection contains 124 species.

Incidentally, this company is one of the  
largest rose growers in the country.

PHB:L

---

Memo to Dr. Goodspeed re Dutch Bulbs.

- 25,000 Hyacinths, Single.
- 25,000 Tulips, Single Early.
- 25,000 Tulips, Double Early.
- 10,000 Tulips, Triumph Types.
- 25,000 Tulips, Darwin Types.
- 10,000 Tulips, Breeder Types.
- 25,000 Tulips, Cottage Types.
- 5,000 Tulips, Lily Flowered Types.
- 25,000 Crocus, Spring Flowering Types.
- 25,000 Iris, Dutch Types.

All the above bulbs to be Top Size and in selected colors.

The Dutch growers should understand that the majority of the above bulbs are to be grown in pots or flats and that they are to be used for display outdoors beginning February 15th. 1939. The grower should be able to select the varieties so that a succession of bloom be obtained. Certain varieties are not suitable for forcing, consequently a proximately half of the varieties should be forcing types and the other half normal. Mr. Daniels claims that they should be shipped to arrive around November or December ?? He also states that facilities for storing and planting will be available once the final arrangements are made with the authorities in Holland.

According to new regulations, bulbs of Narcissi are subjected to the hot water treatment upon arrival in this country by the Department of Agriculture Bulbs so treated will be unsuitable for forcing, consequently it might be wise to omit Narcissi from the list.

January 2, 1942

MR. HUGILL:

Again I wish to bring up the matter of janitorial service at the Botanical Gardens. Professor Goodspeed tells me that on Saturdays and Sundays the janitorial service must be performed by Mr. Brydon and Mr. Whitehead. I think it is asking too much of them to do this type of work. The remainder of the time, Mr. Brydon has one or more of the W.P.A. workers do the necessary cleaning up. However, here the question has been raised as to whether or not W. P. A. contracts with the University cover janitorial service.

I must confess I do not have any solution to offer for this situation, but I do earnestly request that you give further thought to the matter. Whether or not the janitors working at the Poultry Plant and the Veterinary Science Building could be of any help, I do not know. I assume that the janitors in these two buildings do not work Saturday afternoons or Sundays.

*WJN*  
Wm. J. Norton  
Business Manager

WJN:bp

cc: T. H. Goodspeed ✓

June 17, 1946

Mr. O. Lundberg  
Chief Accounting Officer

Dear Mr. Lundberg:

Enclosed ~~is~~ ~~checked~~ payment of prizes won by the University of California Botanical Garden exhibits at the California Spring Garden Show and a bill for costs of installation of the exhibits which were advanced by the Garden Show management. 1946

Kindly deposit the total sum received in Botanical Garden S A E, the approved bill (as indicated) to be charged against the same accounting item.

Sincerely yours,

THG:T

CALIFORNIA SPRING GARDEN SHOW

10th & Fallon  
Oakland, California

June 1946

University of California Botanical Garden  
Berkeley, California

Attention: Dr. T. H. Goodspeed

To: California Spring Garden Show  
10th & Fallon Streets  
Oakland 7, California

Boxing, hauling and purchase of plant material \$510.00

Less credit on sale of Rhododendrons and Azaleas 154.00

Total \$356.00

Charge: Botany: Botanical Garden S A E

(6810-13-4376)

December 12, 1947

Mr. O. Lundberg, Chief Accounting Officer  
400 Administration Building  
Campus

Dear Mr. Lundberg:

In connection with our recent conversation, it occurs to me that I should tell you the amount which represents the difference between what I would have received as salary and what I did receive during the period when I was directing in South America the University's Botanical Expeditions. It somewhat exceeds \$9,500, not including the matching appropriation which would have been made in the case of annuity payments.

Sincerely yours,

T:hdg

935-

Salary 1942-43 TTG

466-

38-39	5100	
	<u>2550</u>	
	2550	2550-

41-42	<sup>2750</sup> <u>2750</u>	2750-
-------	--------------------------------	-------

42-43	2750	3666-
	<u>916</u>	
	3666	9432

+ proportion increase → 68(?)  
 increase 1942-43 \$9500

DATE June 23, 1948

IN REPLY REFER TO

OUR FILE NO. 132-2

Thomas H. Goodspeed  
2079 Life Science Building  
Berkeley Campus

Dear Mr. Goodspeed:

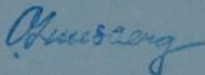
According to the records of this office you were charged on May 31, 1948 with a revolving fund of \$200.00

Please confirm the accuracy of the above amount by signing and mailing the enclosed extra copy of this letter directly to our auditors:

McLaren, Goode & Co.  
Certified Public Accountants  
444 California Street  
San Francisco 4, California

An addressed envelope is enclosed for your convenience.

Very truly yours,



O. Lundberg  
Chief Accounting Officer

Enclosures

The amount of \$200.00, charged against me as a revolving fund as of May 31, 1948 is correct.

Signature 6/23/48

June 7, 1948

Mr. O. Lundberg  
Chief Accounting Officer

Dear Mr. Lundberg:

Enclosed is check in amount of \$550.00 representing three first prizes won by the University of California Botanical Garden exhibits at the 1948 California Spring Garden Show.

Kindly credit the amount to Botanical Garden S A E.

Sincerely yours,

THG:T

REPORT OF THE TENDER OF A GIFT

(Please read gift rules on back page and supply answers to all pertinent questions in this form)

Date June 9, 1948

1. Name and address of donor and/or responsible representative:  
Department of Botany - Botanical Gardens  
Director of the Botanical Garden

University of California

Originals of correspondence relating to this gift must be sent to the President

- 2. Has donor requested "no publicity"?.....
- 3. Are you sending a letter of acknowledgment to the person offering this gift? Yes..... No.....
- 4. All accepted gifts are acknowledged by the Secretary of the Regents. Will an additional letter of thanks from the President's Office be necessary? Yes..... No.....

5. Description of gift: Check for \$550.00 representing prize won by plants produced in the  
Botanical Garden at the 1948 California Spring Garden Show.

Attach inventory if necessary

If the gift is of money or securities, what amount accompanies this report? \$550.00  
Is there a time limit on expenditure?..... If so, give expiration date.....  
Has a report on expenditures been requested?..... If so, when is report due?.....

6. If this is a new gift, state donor's purpose; or if a contribution to a fund or for a purpose already established, identify:  
Botanical Garden South American Expedition

Account number, if any:.....

7. What expense, if any, will the University be caused to share in acquiring this gift, namely, cartage.....  
freight....., express....., other.....  
Will acceptance of this gift require space?..... If so, is space available?.....

8. Submitted by..... Department..... Campus Berkeley

Recommended for Acceptance

By.....	Vice-Pres./Provost or other Administrative Officer	Date.....
By.....	Business Manager	Date.....
By.....	<u>Office of the President</u>	Date <u>June 9, 1948</u>

NOTE: Signatures must appear on all copies.

Accepted by Regents.....	Date <u>JUL 2 1948</u>	6/11/48--I.S. For use of Chief Accounting Officer
Donor notified.....		Acct. Name <u>Various Donations--Botany--Botanical Gardens--</u>
Special letter sent.....		<u>South American Expedition</u>
		Acct. No. <u>43760-10-43760-6810</u>

*Attn: Mrs. Marshall*

June 2, 1949

Mr. O. Lundberg  
Chief Accounting Officer  
Administration Building

Dear Mr. Lundberg:

Enclosed is a check for \$580 representing prize money won by the Botanical Garden exhibits at the 1949 California Spring Garden Show, Oakland. (I have endorsed the check in favor of the Regents of the University.)

Referring to our conversation concerning receipt by the University of such prize money I am taking the liberty of calling this matter to your personal attention and I would appreciate your arranging to credit the amount involved to Botany: Botanical Garden South American Expedition (64275-13-43760).

Sincerely yours,

THG:T

June 10, 1949

Mr. O. Lundberg  
Chief Accounting Officer  
Administration Building

Dear Mr. Lundberg:

May I request that NRI Water Supply Development (64275-14-19900) in which according to my record there is an unexpended balance of \$2289.54, be carried forward to the coming academic year.

Certain preliminary work under this appropriation has been done and I now have recommendations from the USDA Soil Conservation Service which are to be carried out during the coming months.

May I also request that account items NRI Steel Tables (64275-14-19900) and Fencing (64275-17-19900) be carried forward to the academic year 1949-50.

Sincerely yours,

THG:T

Berkeley 4, California  
October 28, 1949

Mr. John R. Millar  
Chicago Natural History Museum  
Roosevelt Road and Lake Shore Road  
Chicago 5, Illinois

Dear Mr. Millar:

This is to acknowledge receipt since September 1 of three lists of determinations (fifth, sixth and seventh) made by Dr. Cuatrecasas of the collections of our fourth expedition.

I am very appreciative of your cooperation in the prompt handling of this material.

Sincerely yours,

THG:T

UNIVERSITY OF CALIFORNIA

DEPARTMENT OF JOURNALISM  
BERKELEY, CALIFORNIA

December 26, 1946

Professor T. Harper Goodspeed  
551 Santa Rosa Avenue  
Berkeley 6, California

Dear Harper:

This afternoon I sent a letter of application for a fellowship to Dr. Henry Goddard Leach of the American Scandinavian Foundation. I am enclosing a copy of the biographical sketch and research proposal which I included with my application.

You mentioned in our conversation the other day that you would be willing to write a letter endorsing my application, and I thought that this material would be helpful to you.

I greatly appreciate the interest you have shown in my plan for study in Norway and will keep you informed on developments.

Sincerely yours,



John V. Lund

enclosures (2)

Biographical Data on  
John Vognild Lund --

Born: Seattle, Washington, December 13, 1903.

Parents: Gunnar Lund (publisher, Washington Posten, Norwegian weekly, Seattle, 1906-1939) and Marie Vognild Lund. Father's birthplace: Stavanger, Norway. Mother's birthplace: Vardø, Norway.

Wife: Joan Taylor Lund, age 34.

Education: A. B. in Journalism, University of Washington, Seattle, 1926. Six months at University of Oslo, 1926-1927, studying Norwegian literature and language.

Special Background on Norway: Visited Norway for four months with parents in 1914 at age of 11. Studied Norwegian language and literature under Professor E. J. Vickner while undergraduate student at University of Washington. Spent eight months in Norway as student, 1926-1927, during which time visited many parts of the country.

Language: Familiarity with Norwegian language began in early childhood. Fluency attained through living in Norway and through study. During the next six months expects to refresh knowledge of the language by study and through conversation with Norwegians now in residence at the University of California.

Familiarity with Norwegian Press: Has read a wide assortment of Norwegian newspapers in the office of Washington Posten and elsewhere from the time he was in high school. Consequently, is familiar not only with the metropolitan newspapers of pre-war Norway but also with the provincial press.

Newspaper Experience:

During high school and college years: Part-time work on Washington Posten.  
1924: Editor, Rainier Herald, community weekly, Seattle.  
1925: Reporter, later night editor, Daily Olympian, Olympia, Washington.  
1927: Business manager, Washington Posten.  
1928: Night editor, Daily Olympian; editor, Camas (Washington) Post.  
1929-1941: Publisher and part owner Camas (Washington) Post-Record.  
1943: Copyreader, part-time, San Francisco Chronicle.

Teaching Experience:

1941-1943: Instructor in Journalism, University of California, Berkeley.  
1943-Present: Assistant Professor of Journalism, University of California (1943-1945: Chairman of the Department).  
Courses: News editing and principles of publishing (including newspaper advertising).

Research and Publication:

Just completed three years of research in the field of newspaper advertising. Book entitled Newspaper Advertising to be published by Prentice-Hall, spring, 1947.  
Wage cost study of California weekly newspapers conducted in cooperation with California Newspaper Publishers Association in 1942. Condensed version of report published in The California Publisher, 1943.  
Continuing research project (with Philip F. Griffin, Assistant Professor of Journalism, University of California) during last two years on reader comprehension of news stories in daily newspapers. Preliminary findings to be reported in articles, spring, 1947.  
Study of revenues and expenses of California weekly newspapers now being undertaken on continuing basis in cooperation with California Newspaper Publishers Association. First report to be prepared for publication early in 1947.

Sabbatical Leave: Verbal approval given for sabbatical leave for academic year 1947-48. Plans to spend sabbatical year in Norway doing research as outlined in accompanying statement.

# # #

Proposed Research Project  
submitted by John V. Lund

A study of the effects of the German occupation on the Norwegian press:

1. Development, operation, and techniques of the underground press.
  - Its sources of news and methods of distribution.
  - Its sources of supply and finances for equipment, etc.
  - Its influence on the people.
2. Conditions under which the legally operated press continued publication during the German occupation.
  - Censorship controls.
  - Attempts to evade censorship.
  - Suppression and consolidation of newspapers.
  - Public reaction to the censored press.
3. The post-liberation press.
  - Post-war changes in the Norwegian press resulting from the German occupation period.
  - Comparison with pre-war press.

It is realized that any study of the role of a free press in a democratic society during a period of tremendous stress and change such as took place in Norway is much more than a mere chronological enumeration of events. It goes beyond names and dates and is closely interwoven with the social, political and economic life of the people. The study should provide a valuable contribution to our knowledge of journalism and the relationship of press and society.

# # #

January 17, 1947

Dr. Henry Goddard Leach, President  
The American-Scandinavian Foundation  
116 East Sixty-Fourth Street  
New York 21, New York

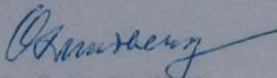
Dear Dr. Leach:

Vice-President and Provost Monroe E. Deutsch sent me a copy of his letter to your Miss Margaret B. Anderson, of January 10, 1947, from which I learned that you probably would speak on the Berkeley Campus of the University of California on or about February 16.

The California Chapter of the Foundation, of course, is delighted to learn that you are coming out to the Coast, and I am writing this to inquire whether your itinerary would make it possible for you to attend a dinner meeting of the Chapter at the time of your visit. Normally, the annual meeting of the Chapter is held in the latter part of January, but we should very much like to postpone it until February if, by so doing, it would be possible for us to have you present as our honored guest.

I shall be grateful to hear from you on this matter within the very near future.

Respectfully yours,



O. Lundberg, President  
California Chapter

UNIVERSITY OF CALIFORNIA

DEPARTMENT OF JOURNALISM  
BERKELEY, CALIFORNIA

April 12, 1947

Professor T. Harper Goodspeed  
551 Santa Rosa Avenue  
Berkeley 6, California

Dear Harper:

You will be interested to know that I have just received a letter from The American-Scandinavian Foundation informing me that I have been appointed for a \$1,000 fellowship. Mrs. Lund and I are planning to leave for Norway sometime in June and spend the entire 1947 academic year there.

I greatly appreciate the assistance that you gave me in obtaining this fellowship. Your letter of recommendation, I am sure, strengthened my application.

If you would care to give me any letters of introduction to persons in Norway, Sweden or Denmark, I should be glad to have them. We expect to spend some time in the latter two countries.

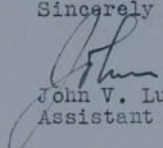
During our stay in Norway our mailing address will be

c/o Nordmanns-Forbundet  
Rådhusgaten, 23-B, Oslo.

Any suggestions that you may make that would assist me in my studies in Scandinavia will be most welcome.

My warm thanks for the interest you have taken.

Sincerely yours,

  
John V. Lund  
Assistant Professor

May 25, 1947

Dr. Carlos Madrid S., Decano  
Facultad de Agronomia  
Apartado Aereo No. 568

*Medellin, Col*  
Dear Friend:

Some days ago I received a letter from Dr. Gunnar Hiorth, the Norwegian geneticist. He tells me that you have written him concerning his appointment at Medellin.

I have known Dr. Hiorth for many years but have not seen him since 1938 when he was in Berlin. He wrote to me some time ago saying that he wished to leave Norway and asked my advice concerning possible positions in this country or in South America. I referred him to a number of South American institutions including Medellin and Tucuman.

He has received an offer from Tucuman as well as from you. Since perhaps he used my name in writing to you I believe that I should tell you that, although Dr. Hiorth is a competent theoretical geneticist, his personality is a little peculiar. Of course, I have not seen him for many years but I fear that he has not greatly changed. He was a very shy and uncooperative person who gave the impression that he was suspicious of other investigators. It seems to me that he would find it difficult to adjust himself to such an entirely different environment as he would find in Latin America. I know that you will treat this comment as absolutely confidential and also remember that my personal knowledge of Dr. Hiorth is not up to date.

As I told you in my last letter we have not yet received any additional shipments of orchids from Ing. Agr. Gutierrez. Probably I will soon hear from you that he is beginning to make a number of shipments.

With all good wishes and kindest regards

Cordially yours,

THG:T

ALAN AND ESTHER MACNEIL  
GROWERS AND IMPORTERS

# Sandyloam

SPOONERVILLE ROAD  
NORTH SPRINGFIELD,  
VERMONT

GARDEN LILIES

January 8, 1948

#10

Dr. Theodore Goodspeed  
University of California,  
Berkeley, California.

Dear Doctor Goodspeed:

I am enclosing seeds of several Rhododendrons and of Aconitum volubile which were recently sent to us by our mutual friend, Dr. Joseph Rock. They are, of course, sent at his request. These are all of the Rhododendrons that he has sent and the only Aconitum, but in addition there are a number of Fritularia and Macropis if you would like to have seed of any of them.

Have you heard from Dr. Rock recently? The last letter we received was dated December 7th and at the time he was not well but we have just heard from Hng Kong of rumors of serious unrest in that part of China and are just faintly disturbed. The combination of unrest and ill-health might not be good.

Please ask for more seed of the Rhododendrons or other things if you want them. Unfortunately I planted most of the P.s.--except for small lots of seed that we sent to England but there are still a few left if you would like them.

Sincerely

*Alan Macneil*

*Do we want  
them? no*

Mr. R. M. Underhill - Rec<sup>23</sup> 1/19/48

## South America

### I. Lima

- a) Hotels -- Bolivar or Crillon
- b) Contacts

Sr. Jorge Larranaga -- address Edificio Porvenir, Lampa 569, telephone 34667 or 16843 -- stock exchange broker, prominent Rotarian, knows California, useful friend. I am writing to him that you are coming.

Dr. Alberto Geisecke -- Civil Attache of the US Embassy. Born in USA but long a resident of Peru. Peruvian wife. Always glad to see N. Americans and exceedingly well informed on Peruvian affairs.

Dr. J. L. Hydrick -- in charge Rockefeller Foundation Office (in telephone book) in Lima, local director of Foundation's public health program. Originally in East Indies for Foundation and his wife is part Javanese. Charming people and useful if medical assistance is needed. His Casilla (-P.O.Box) is 2790.

### II. Chile

#### Vina del Mar (10 miles N. of Valparaiso)

Dr. Edwyn P. Reed (in Valpo. telephone book) will meet your steamer, and have a place for you at a good hotel in Vina. Two days there would be interesting. Write to Dr. Reed (Casilla 1802, Valpo.) from Lima sufficiently in advance so that he can plan on meeting your steamer. He is an Anglochilean-- his father was an English naturalist who came to Chile in 1870 and married a Chilean woman. You will find Reed an interesting companion. I will ask Reed to put you into touch with Dr. Gustavo Fricke, Alcalde (mayor) of Vina who speaks excellent English and will show you attentions.

#### Santiago

Hotel -- Crillon, if not too noisy for you a room in the "old part" will be most comfortable.

#### Contacts

Miss Elizabeth Mason, Director of Santiago College -- she is on Florence's list.

Mr. Eitren -- Agricultural Attache, American Embassy, a fine chap on whom you can call for official advice, etc.

Harold Brown -- accountant, office Agustinas 1070, Casilla 834, telephone 62859. An Englishman, President of Santiago Garden Club. Very pleasant chap and could be of assistance in any connection. I will write him the approximate dates of your Santiago visit.

Wilson Zavala A. District traffic Mgr. Pan American Grace Airways office Amunateg 72, telephone 81966. Can be of service, speaks English. You might care to discuss with him flying from Santiago

to the Lakes rather than spending a night and a day on the train.

Samuel H. Kleinmann -- young engineer, recent graduate UC, address Alameda 1345, telephone 80478. He would like to see you, I know.

### III. Buenos Aires

City Hotel -- Sr. Alberto Favello, Mgr.

#### Contacts

Sr. Abel Saint, address Ave. Alvear 3255, telephone 21-0095. A close friend, President of Saint Hermanos, one of the largest industrial concerns in B.A.--manufactures candy, coffee, etc. Both he and his wife speak excellent English and have been in California more than once. I will tell him that you are coming.

Dr. Hugo Salomon, address Ave Alvear 3066 -- a famous physician, much interested in conservation. Whole family speaks English. He would be glad to see you and could be of assistance if you need medical advice.

### IV. Montevideo

Hotel Nogarro (? spelling)

#### Contact

Dr. Ergasto H. Cordero, Dir. of the Natural History Museum, home address, Agraciada 2318 (1), telephone 24285. Most charming people and he speaks excellent English. Was a State Dept. guest in US last year and spent some time in Berkeley.

### V. Rio

Hotel Gloria

#### Contact

Dr. Luiz E. de Mello Filho, Div. de Botanica, Museo Nacional. Delightful couple who might be of service.

VI. Cali (Can't remember whether you will stop there on return trip)  
Hotels -- Alferez Real (? spelling) and a newer hotel (? name) which is said to be better.

#### Contact

Sr. Hernando Lopez Torres, address Calle 7, #5 - 71 (in telephone book under family Lopez Torres. Just left Berkeley after over a year on a Rockefeller Fellowship.

I am imposing upon you two small packages for Lima. Each is addressed and in both cases I am writing the addressee to call at Cia Wilbur Ellis office, Lima. The larger package contains a bulb for a projection apparatus, the small one a pair of rubber heels.

2079 Life Sciences Bldg.  
Berkeley 4, California  
October 3, 1949

Director  
Morton Arboretum  
Lisle, Illinois

Dear Sir:

Sometime ago a member of your staff inquired concerning the possibility of obtaining seed of woody species from southern Chile which might be hardy in your climate. I am sorry that his letter has been mislaid so that I am unable to address him directly.

During my last collecting trip to South America from which I returned last December I obtained a considerable amount of seed of Chilean trees and shrubs from the Department of Agriculture in Santiago and from the National Park Service in Buenos Aires. I fear that most of this seed is rather old and may not give germination. I have, however, divided with you the seed, the species being referred to on the enclosed list. In addition to the seed which we will shortly attempt to germinate and which is designated by our accession numbers there are four packets unnumbered which represent duplicate or other collections of which we did not take a sample.

Doubtless you have had experience with a number of the species on this list, or perhaps with all, on the basis of which you will know whether they will be successful in your climate.

Sincerely yours,

THG:T

Seed from the University of California  
Botanical Garden, Berkeley

		Common name
49.321	<i>Embothrium coccineum</i>	Notro
49.323	<i>Quillaja saponaria</i>	Quillay
49.327	<i>Aextoxicum punctatum</i>	Olivillo
49.330	<i>Laurelia (aromatica?)</i>	Laurel
49.338	<i>Guevina avellana</i>	Avellano
49.339	<i>Araucaria araucana</i>	Araucaria del Pais
49.342	<i>Nothofagus dombeyi</i>	Coigue
49.346	<i>Melia azedarach</i>	Arbol del Paraiso
49.357	<i>Quillaja saponaria</i>	Quillay
49.358	<i>Nothofagus obliqua</i>	Roble Pellin
49.359	<i>Boldea boldus</i>	Boldo
	<i>Boldea boldus</i>	Boldo
	<i>Fitzroya cupressoides</i>	Alerce Chileno
	<i>Lomatia obliqua</i>	Radal
	<i>Maytenus boaria</i>	Maiten

February 28, 1950

Honorable Bernardo Rolland  
Consul General of Spain  
San Francisco, California

Dear Sir:

It is with genuine regret that I must decline your most cordial invitation to attend the tenth anniversary plenary session of the Consejo Superior de Investigaciones Cientificas to be held in Madrid, April 12th to 17th, 1950. Unfortunately, my overcrowded calendar makes it impossible for me to leave the United States during the last three months of the academic year.

It gives me pleasure, however, to inform you that the University of California will be well represented at the plenary session by Professor T. H. Goodspeed, who has been given leave to accept the invitation, cordially extended to him by Dr. Jose Maria Albareda of the Consejo, to visit Spain to lecture and assist in the development of research in his field.

May I at this time offer my personal congratulations on this anniversary occasion and wish for the Consejo many times ten years of future service.

Yours sincerely,

Robert G. Sproul

cc: Professor Goodspeed

April 7, 1950

Miss A. R. Robb  
Office of the President  
Administration Building

Dear Miss Robb:

You may care to have the enclosed to complete your file concerning the invitation to attend the commemoration of the tenth anniversary of the foundation of the Consejo Superior de Investigaciones Científicas. Obviously Dr. Albareda, who knew that I was not in Spain, thought that the University was sending me as its representative.

Sincerely,

THG:T

June 1, 1950

Mr. O. Lundberg  
Chief Accounting Officer  
Administration Bldg.

Dear Mr. Lundberg:

May I request that NRI Water Supply Development (64275-14-19900) in which according to my record there is an unexpended balance of \$5890.54, be carried forward to the coming academic year. Work on this project is progressing according to recommendations of the USDA Soil Conservation Service.

May I also request that NRI Toilet Facilities (64275-14-19900) \$3000.00, be carried forward. Plans have been drawn for the new toilet accommodations but construction cannot be started until after July 1st.

Kindly also carry forward unexpended balances of \$200, NRI Steel Tables (64275-14-19900) and \$48.40, Fencing (64275-17-19900).

Sincerely yours,

THG:T

June 1, 1950

Mr. O. Lundberg  
Chief Accounting Officer  
Administration Building

Dear Mr. Lundberg:

Enclosed is a check for \$470.00 representing prize money won by the Botanical Garden exhibits at the 1950 California Spring Garden Show, Oakland, and drawn in favor of the University of California Botanical Garden.

A year ago I spoke with you concerning receipt and crediting of payment of such prize money. You ~~were~~ suggested that I call your personal attention to the check when received in order that the sum involved might be credited directly to Botanical Garden South American Expedition (Account 64275-13-43760).

I would appreciate it if the enclosed check might be handled in the same way.

Sincerely,

THG:T

*File  
Lundberg*

the Controller

601

August 9, 1950

Mrs. Adolf Pabst  
Consul General Paul B. Ryder  
Acting Consul General Carl Jorgensen  
Acting Consul General Hugo Arnfast  
Professor Arthur H. Brodeur  
Professor Sturla Einarsson  
Reverend S. O. Thordarson  
Professor Thomas H. Goodspeed ✓  
Mr. Herbert Seeborn

Re: Establishment of Trainee Committee  
American-Scandinavian Foundation

At the dinner meeting at the Faculty Club on June 15th, you instructed me to do two things. The first was to write to the office of the Foundation in New York and solicit, if possible, the answers to three questions:

1. Is any information available as to major fields of interest of the trainees?
2. Is there any reciprocity arrangements with the Scandinavian countries?
3. Does the American Grange have any trainee program for those interested in studying American farming methods?

The second was to prepare a list of names of persons who might be suitable and willing to serve on a trainee committee for the San Francisco Bay Area.

As of this writing I have not as yet had a reply from the Foundation in New York, but no doubt I shall hear from Mr. Osborne in the near future, and as soon as I do I shall let you know what he has to say.

With respect to the second matter, I am attaching to this letter a list of names which was suggested at the time of our dinner meeting. I regret to say that I have been unable to identify some of the names which were suggested, but I have listed them, nevertheless, and should appreciate if those of you who have the information would note it on your copy and send it back to me.

As you will remember, it was intended that names of other persons who may have occurred to you since our meeting should be added to the list. Out of the information thus obtained a composite list of names should be

August 9, 1950

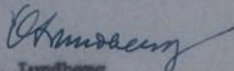
prepared, and at that time I think it was intended that we hold a further meeting and agree upon a final list of nominees who might be approached about the idea of serving on the trainee committee.

The list of names is prepared in duplicate for your convenience in sending me your suggestions and changes.

-----

Mrs. Pabst and Mr. Seeborn, I am glad to say, are currently conferring about a meeting in the not too distant future, and I have high hopes of being able to persuade Dr. Julia Vinter-Hansen, the distinguished Danish astronomer who is visiting here, to speak at such a meeting if it can be arranged during the latter part of August.

Very truly yours,



C. Lundberg  
Controller

Attachment

Suggested Names

Eric Hallbeck  
Alf Hansen  
Emil Hagstrom  
Claf A. Nelson  
H. W. Guettler  
Eric Krog  
Harry S. Scott  
John Jorgensen  
Dr. Lars J. Jacobsen

Bank of America  
General Electric Company  
Hagstrom's Stores  
Nelson Packing Co.  
Fibre Making Processes, Inc.  
Interocean Steamship Corp.  
General Steamship Corp., Ltd.  
Bay Equipment Co.  
Dentist

Names Not Definitely Identified

Freitag (Danish)  
Zecher (Fruit packing)

The names of the following persons were also suggested for possible inclusion:

Dr. Geiger  
Dr. Richards  
Dr. Babington  
Dr. Bronckhurst (?)

Suggested Names

Eric Hallbeck  
Alf Hansen  
Emil Hagstrom  
Claf A. Nelson  
H. W. Guettler  
Eric Krog  
Harry S. Scott  
John Jorgensen  
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Names Not Definitely Identified

Freitag (Danish)  
Zecher (Fruit packing)

The names of the following persons were also suggested for possible inclusion:

Dr. Geiger  
Dr. Richards  
Dr. Babington  
Dr. Bronckhurst (?)

CITY OF OAKLAND

ZONE 12

CALIFORNIA

PARK DEPARTMENT

November 24, 1950

Mr. Robert Bean,  
Director of Chicago Zoological Park,  
Brookfield, Illinois.

Dear Bob:

I am writing this letter directly to you in connection with the planning for the new East Bay Botanical and Zoological Park because, as a member of the Planning Board, you are the one farthest away from the scene of action. However, I am sending copies to each of the other members.

In order to proceed with the task ahead, it seems to me that it is necessary for the Planning Board to meet as soon as possible and familiarize itself with the objectives and problems. To accomplish this, it seems to me that a three day conference might be necessary with a schedule something like this:

- (1) Board to meet, select their chairman and other officers as deemed advisable.
- (2) Meet with the East Bay Botanical and Zoological Society Board of Directors to discuss their problems and objectives.
- (3) Meet with the State Park Commission to determine their attitude and viewpoint towards the development of this park.
- (4) Meet with the City Council of the City of Oakland.
- (5) Meet with the Oakland Board of Park Directors.
- (6) Meet with any other interested groups or individuals.

The above series of meetings would bring everybody into the picture and give them an opportunity to express their views. It would also help to sell the development of this park and, I believe, make it easier to secure funds for its development which, at the present time, are not immediately available.

# CITY OF OAKLAND

ZONE 12

Mr. Robert Bean  
Page #2

CALIFORNIA

## PARK DEPARTMENT

After the above series of meetings, the Planning Board would meet in private to discuss and analyze the data collected. A statement concerning the objectives to be achieved, the features to be included in the park, the amount of area in general to be allocated to each of the features, and other information would be prepared. This data would be turned over to the technicians, whose job it would be to prepare a preliminary Master Plan. Until the Planning Board has gone through the above procedure, I do not see how it would be possible to proceed with the preparation of even a sketch plan.

I would appreciate each of you commenting on this matter and I would appreciate it, Bob, if you would indicate when it will be most convenient for you to come to California.

If the above scheme or a similar one, as modified by your collective comments, anticipates the scheduling of a series of meetings, this will have to be done as quickly as possible. At best, it will take some time because of the integration of all of the political bodies involved.

In order that you may all benefit by the comments, may I suggest that each of you send to the other members on the Planning Board your comments to this and any subsequent letters so that everyone will be completely informed.

For your information, the members of the Planning Board and their addresses are listed below:

Prof. T. Harper Goodspeed  
Botany Department,  
University of California  
Berkeley, California

Prof. H. L. Vaughn,  
Landscape Architecture Department,  
University of California,  
Berkeley, California

Mr. Robert Bean,  
Director of Chicago Zoological Park,  
Brookfield, Illinois

Mr. Wm. Penn Mott, Jr.,  
Superintendent of Parks,  
Room 1111, City Hall,  
Oakland, California

WPM:HR

cc Prof. Goodspeed  
Prof. Vaughn  
Bernard B. Gordon, Sec'y.,  
East Bay Botanical & Zoo. Soc.  
Park Board

Sincerely yours,

Wm. Penn Mott, Jr.,  
Superintendent of Parks

# Biological Resources as a Factor in International Understanding

KARL SAX

*Director of the Arnold Arboretum and professor of botany in Harvard University, Karl Sax gained his botanical knowledge in institutions at both ends of the continent (Washington State College and Harvard). As a plant geneticist, he has been interested in improved varieties and crop yields—interests that led him to appraise the adequacy of biological resources for the food requirements of the world's growing population.*

THERE can be no firm foundation for international understanding until most of the world's people attain a reasonable level of economic and educational development. Today nearly two thirds of the world's 2.4 billion people live little above subsistence levels, with totally inadequate food, shelter, or medical care.<sup>1</sup> Most of these people cannot be expected to utilize the techniques of modern science in developing a national economy, nor can they be expected to take an active part in developing new world order until economic and educational conditions are improved.

Promises of an abundant life for all mankind are often made with no consideration of the population problem. The world's biological resources must be considered in relation to human populations. Not only do we have to provide materially higher living standards for nearly two thirds of the world population, but we must provide for an expanding population for many decades. At the present growth rate more than 200 million people are added to the world population every ten years.<sup>2</sup> Every decade resources of the world must provide for an added population equal to that of all of North America. The problem is made much more difficult by the fact that the greatest growth, or potential growth, is in the undeveloped areas of the world, where population pressure is already acute and living standards are low.

The development of the mineral resources of the world is essential for a modern civilization. Mather and Meyerhoff have shown that most of these resources are adequate for many centuries. With increasing industrialization the demands of our oil, coal, and mineral resources will be greatly accelerated, and in the case of liquid fuels, scientists are already considering the use of farm and forest products to meet our needs. As demands increase and nonrenewable resources decline, there will be

an increasing need for biological resources in industry.

Can the world produce the biological and other resources needed to redeem the Atlantic Charter pledge to achieve "freedom from want among the people of all lands"? The basic factor is the food supply, for without adequate nutrition no people can maintain the health and vigor necessary for the economic development of their resources. Before World War II the total food production was about 1,000 million tons annually, but still two thirds of the world's people did not get enough to eat. In most of the world the dietary standards are now lower than they were before the war, owing in part to an increase in population of about 10 per cent during the past decade. If the dietary level of the undernourished people of the world were to be increased to minimum nutritional standards, world food production would have to be raised at least 30 per cent over prewar levels. In order to provide optimum diets in accord with dietary standards in the United States, the world output of food would have to be more than doubled.

The world can produce more food either by increasing the yields of land already in cultivation, or by bringing into cultivation new land not now used for agriculture. The first of these two alternatives is the most feasible, since most of the fertile land that can be farmed profitably is already in cultivation. In most of the world, yields per acre can be increased substantially by the use of more fertilizers, better farm management, and the development of better varieties of crop plants. Yields per acre in different parts of the world vary enormously, as a result of differences in soil, climate, and farm management. Western Europe produces about three times as much food per acre as do the United States and Canada, partly because of more favorable weather and more intensive cultiva-

May 23, 1951

Mr. O. Lundberg  
Controller  
Administration Bldg.

Dear Mr. Lundberg:

Because of long periods of rain during the current academic year soil conditions were such that expenditure of the total of the following special appropriation was impossible:

Botanical Garden Equipment-Facilities  
(water and toilet development)  
64275-14-19900 balance (4/30/51) \$8,179.95

Normal spring garden maintenance from Botanical Garden General Assistance funds was also much curtailed because of soil conditions and such deferred maintenance will become a charge after July 1 to the extent of \$1,000 which sum will remain in Botanical Garden General Assistance (64275-11-19900) as of June 30, 1951.

May I therefore request that the balance in Equipment-Facilities and \$1,000 in General Assistance (1950-51 appropriation) be carried forward in corresponding accounts to 1951-52.

I assume that the balances in Botanical Garden South American Expedition, Rockefeller Foundation and Sales accounts (64275-13-19900) will, as in the past, be carried forward.

Sincerely,

THG:T

June 13, 1951

Mr. O. Lundberg  
Controller

Dear Mr. Lundberg:

Enclosed is a check for \$100 representing prize money won by the Botanical Garden exhibits at the 1951 California Spring Garden Show, Oakland, and drawn in favor of the University of California Botanical Garden.

As in the past and at your suggestion I am bringing this to your personal attention in order that the sum involved may be credited directly to Botanical Garden South American Expedition (Account 64275-13-43760).

Sincerely,

THG:T

PARK DEPARTMENT  
CITY OF OAKLAND, CALIFORNIA

September 18, 1951

OFFICE OF THE  
SUPERINTENDENT  
ROOM 1111, CITY HALL  
ZONE 12  
TELEBAR 2-3600

BOARD OF PARK DIRECTORS  
J. VENDES MANN, PRESIDENT  
ERNEST A. ROSSI, VICE-PRESIDENT  
G. R. AUGUSTON, DIRECTOR

Professor T. Harper Goodspeed  
Director, U.C. Botanical Gardens  
University of California  
Berkeley, California

Dear Professor Goodspeed:

Attached is first draft of our report to the East Bay Botanical and Zoological Society on the development of Joseph R. Knowland State Arboretum and Park.

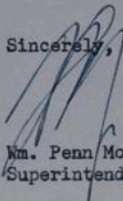
I would like each of the Board to read it very carefully, making whatever corrections, additions and alterations you feel desirable. I would appreciate very much your expediting this matter, as the whole problem of administration is coming to a head and it now appears desirable to present this first report to the Society as soon as possible.

I have purposely delayed my job of writing the report in order to permit crystallization of the responsibility of the State concerning this project. Since Mr. Newton Drury has taken over the position of Director of State Beaches and Parks, there has been a definite policy of responsibility established by the State Park Commission.

The final draft, will of course, be accompanied by photographs of the area, and I intend to include a small map showing the land use as described in the report.

It is suggested that each of you make your comments, suggestions, recommendations and additions on the copy of the report attached and return it to me as soon as possible. I will then recapitulate all of the comments and re-submit them to you for further discussion.

Sincerely,



Wm. Penn Mott, Jr.  
Superintendent of Parks

encs.

REPORT

to the

EAST BAY BOTANICAL AND ZOOLOGICAL SOCIETY

On the Development of

JOSEPH R. KNOWLAND STATE ARBORETUM AND PARK

Oakland, California

PREAMBLE

On November 15, 1949, at a regular meeting, the Board of Trustees of the Alameda County Zoological Society, now renamed East Bay Botanical and Zoological Society, voted unanimously to appoint the following four persons to a Master Plan Board:

Robert Bean, Director  
Chicago Zoological Park  
Brookfield, Illinois

Professor T. Harper Goodspeed  
Director, University of California Botanical Gardens  
Berkeley, California

Professor H. L. Vaughan  
Chairman, Division of Landscape Architecture  
University of California  
Berkeley, California

Wm. Penn Mott, Jr.  
Superintendent of Parks  
City of Oakland, California

At a regular meeting of the Board of Trustees, Alameda County Zoological Society, held December 20, 1949, the Superintendent of Parks, City of Oakland, was appointed chairman of the above mentioned Master Plan Board.

The Board of Park Directors of the City of Oakland were notified, in a letter dated May 4, 1950, of the appointments to the Master Plan Board. On May 10, 1950, the Oakland Board of Park Directors, meeting in regular session, approved the appointments.

The membership of the Master Plan Board was transmitted to the State Park Commission, and in a letter dated December 22, 1950, the Executive Secretary of the Commission recognized the Board as follows:

"The Commission is pleased to learn that a master planning board has been selected for the state arboretum and park consisting of the following well-known experts: Prof. T. Harper Goodspeed, Director of the Botanical Gardens at the University of California; Prof. H. L. Vaughn, Professor of Landscape and Architecture at the University of California; Robert Bean, Director of Chicago Zoo, and William Penn Mott, Superintendent of Oakland Parks."

The Master Plan Board was charged with the responsibility of preparing a master plan for the Joseph R. Knowland State Arboretum and Park, as required in Section 5 of the agreement and lease between the State of California and the City of Oakland.

#### LOCATION, DESCRIPTION AND HISTORY OF PROPERTY

The Joseph R. Knowland State Arboretum and Park is located in the northeast corner of the City of Oakland, California, and contains approximately 450 acres of land.

The park is bounded on the north by Skyline Boulevard and on the south by Stanley Avenue. The property is bisected by Golf Links Road; one parcel between Golf Links Road and Skyline Boulevard contains approximately 110 acres, the other between Golf Links Road and Stanley Avenue contains approximately 340 acres. The park is approximately 9300 feet in length and 3000 feet in width at its widest dimension. The topography is quite steep and cut up by numerous ravines fed only by intermittent streams. The difference in elevation between the most northerly portion of the park and the most southerly portion of the park is approximately 700 feet.

The central southeasterly portion of the park consists of a rolling plateau-like area of approximately 75 acres. This plateau is separated from the southerly, relatively level portion of the park, by rather steep topography, and the plateau is separated from the rolling northerly portion of the park by Golf Links Road. This northerly portion of the park is cut up by numerous ravines running in a general north and south direction and has a difference in elevation between Golf Links Road and Skyline Boulevard of approximately 500 feet.

At present the only portion of the park which is developed is the most southerly portion adjacent to Stanley Avenue, containing 100 acres. Here the East Bay Botanical and Zoological Society has build a very small zoo, picnic facilities, playgrounds and various concessions. There is also located within the area a pistol and small bore rifle range and clubhouse. This feature is operated somewhat independently of the zoo and picnic area, having its own organization known as the Oakland Pistol Club, Inc.; members joining the pistol club are required also to join the East Bay Botanical and Zoological Society. Also within this area are some fine old specimen trees which were imported and planted many years ago. There are also in this area several old buildings which were built when the park was a private estate.

In general native plantings are confined to the north sloping sides of the ravines and consist primarily of California Live Oak, California Buckeye, Baccharis and related plantings. Some of the ravines which contain more moisture have fine native plantings of California Bay, Big Leaf Maple, maidenhair fern and related plantings.

The large central plateau-like area and the hilltops are, for the most part, grass covered, being at the present farmed for hay. The south facing slopes of ridges and ravines are generally brush covered, with

Baccharis, Chamise and poison oak.

In the southerly portion of the property there exist extensive plantings of Eucalyptus trees, the seed having been imported from Australia some 50 to 75 years ago.

The property formerly was a private estate which, during the years, changed hands on several occasions. Some of the previous owners were Captain William Talbot, a sea captain who is credited with the planting of many exotic trees and shrubs, Cliff Durant and Norman DeVaux, automobile manufacturers.

In 1937 title to the property was vested in the Alameda County Zoological Society. Early in 1940 a small zoo operated by the Oakland Park Department was transferred to the newly created Durant Park and a Charter amendment was approved by the people of Oakland which permitted the City, through its Park Department, to pay the Alameda County Zoological Society a sum not to exceed \$5,000.00 a year for the maintenance of the city-owned animals.

In 1949 the State of California, Division of Beaches and Parks, acquired the property for park and arboretum purposes. The property was obtained as part of the current State Park expansion program on a matching basis, the Alameda County Zoological Society matching with the property the funds provided by the State. Acquisition of the property was conditioned upon the approval of an agreement between the City of Oakland and the State, whereby the City would maintain, operate and develop the property for fifty years. The City, with the consent of the State, in turned sub-leased the property and transferred all of its responsibility to the newly constituted East Bay Botanical and Zoological Society, formerly known as the Alameda County Zoological Society. The sub-lease was for a period of twenty-five years.

The leasing agreements mentioned above required that a Master Plan be created for the development of the arboretum and park before any capital improvements are made. To fulfill this particular requirement of the lease agreement, the aforesaid Master Plan Board was appointed by the East Bay Botanical and Zoological Society.

#### THE PROBLEM

The Master Plan Board was asked to submit a master plan for the development of the 253 acres of complex topography, known as the JOSEPH R. KNOWLAND STATE ARBORETUM AND PARK, which plan was to serve in combination and in a well balanced, unified and unconflicting manner the diverse purpose of an arboretum and botanical garden, of a zoological garden, and a normal, unspecialized type of park, such as is created by the State for the enjoyment of the general public not especially interested in botanical or zoological exhibits.

From March 19 to March 23, 1951, the Master Plan Board met in almost continuous session to discuss the problem. These meetings included field trips to the park, discussions with the Alameda County Board of Supervisors; City Council, City of Oakland; Board of Park Directors, City of Oakland; Trustees and members of the East Bay Botanical and Zoological Society.

At the conclusion of the above mentioned public meetings the Master Plan Board met in executive session to discuss in detail the many complications inherent in the problem. At the conclusion of these meetings and after further study and discussion, the Board reached unanimous agreement on the following recommendations, which are presented to the East Bay Botanical and Zoological Society for their

consideration, as the first step toward the ultimate presentation of a final Master Plan for the overall development of the park.

RECOMMENDATIONS:

A. General

1. That the development of JOSEPH R. KNOWLAND STATE ARBORETUM AND PARK be planned so that it will supplement, rather than duplicate, the development and activities of the San Francisco Zoo, Strybing Arboretum and Botanic Gardens of Golden Gate Park, native California plant garden and botanical developments found in the East Bay Regional Parks, and the botanical garden developments of the University of California and Mills College.
2. That the arboretum be planned and developed so that it can be appreciated, enjoyed and used extensively by the general public, rather than be conceived and created for experimental and scientific purposes only.
3. That the zoological garden be planned as a complete entity, separated from the arboretum and park developments in every respect, except for general administrative control.
4. That adequate provision be made both in the development of the arboretum and zoological gardens for automotive, as well as pedestrian circulation, and for adequate parking of cars within the confines of the property.
5. That emphasis be placed on achieving in the design and development of the arboretum and zoological gardens maximum educational values.
6. That those native canyons within the park which most adequately represent biotic communities for this area be preserved.

7. That areas be developed as complete units and that each development be done well and permanently, and with the highest standard of craftsmanship.

8. That expansion and development of the park be commensurate with the ability of the operating agency to maintain the total development completely and adequately.

9. That those features and structures which have been inherited by the Joseph R. Knowland State Arboretum and Park, such as the pistol range, practice golf driving range, and various miscellaneous structures that are inconsistent with the proper use and development of the Joseph R. Knowland State Arboretum and Park, be razed or moved to another location.

10. That the property now owned by the East Bay Municipal Utility District, containing approximately 38 acres, adjacent to the north central portion of the park and contiguous to Golf Links Road, be acquired to round out the existing holdings.

B. Specific

1. That the approximately 110 acres of land in the northern portion of Joseph R. Knowland State Arboretum and Park, between Skyline Boulevard and Golf Links Road, be set aside for the development of the zoological gardens.

In developing the zoo the Planning Board strongly urges that consideration be given to the idea of creating at the Joseph R. Knowland State Arboretum and Park a zoo that will consist of a number of unit sets, animated with several species and varieties of congenial animals, birds, and/or reptiles, rather than attempt to feature a collection of

specimen animals, birds and reptiles.

For example, a set might portray completely and in authentic detail a typical California off-shore rookery. It might be animated with seals, pelicans, sea gulls and other congenial animals and birds.

Each set would, as visualized by the Planning Board, be dramatized by selecting one variety of animal, bird or reptile, and making this variety the dominant feature of the exhibit.

Using the above example, it might be appropriate to feature the small harbor seal, using 50 to 100 of these interesting mammals.

Pedestrian circulation around the entire set should be provided, and each set should be accessible to automobiles with a large parking area planned adjacent to each exhibit. Educational talks and special exhibits might be featured at each set.

The example set mentioned above might require for its total development two to three acres of land. The Board visualized as many as twenty sets, varying in size from a few hundred square feet to several acres. These exhibits would comprise the major development of the zoological gardens. In creating these exhibits it is recommended that emphasis be placed on California fauna, rather than depend upon extensive importations of animals, birds and reptiles.

This type of approach to the development of a zoological garden would ideally fit the topographical conditions within the area and would make it possible to use the total area most effectively. Furthermore, it would be possible to visit the zoo by auto, eliminating much of the fatigue experienced by visitors to large zoos. Another advantage of this type of plan is that the zoo can be progressively built as funds are available and would not require a large initial expenditure of

money. Also, individuals, clubs and organizations would find it within their means to contribute towards a completed set, and would therefore make securing funds, even under present conditions, easier.

It is also recommended that within the zoological gardens there be constructed a building to house animal hospital, administration offices and such educational exhibits as would logically be a part of a zoological development.

2. That the relatively level southern portion of the Joseph R. Knowland State Arboretum and Park east of Stanley Avenue, containing approximately 112 acres, be developed as the main approach entrance and administrative headquarters for the total development.

A major problem in the planning of this area will in integrating the entrance and approach to the park into the layout of the proposed Mountain Boulevard Freeway which will cross the northwest corner of the park, taking approximately 13 acres of the park for the right-of-way.

It is also recommended that within this area there be constructed a major, permanent building of outstanding architectural design and beauty to house a natural science museum, the administrative offices, lecture rooms and class rooms. Featured within the natural science wing might be a series of diorama exhibits showing the various life zones found in California. Within the museum might also be featured in a dramatic way botanical and horticultural information of basic educational value necessary for the understanding and enjoyment of the arboretum and botanical gardens.

Surrounding this building might be created outdoor plant exhibits designed to present accurately the various forest types found in this region. This total development is visualized as a condensed, dramatically presented, educational feature that will set the standard

and tone for the overall development of the park.

From this area might emanate various nature walks and other activities commensurate with the total development of the arboretum and park.

Parking for at least 800 cars in the area should be provided in the ultimate scheme.

3. That the plateau-like area in the central portion of the park, containing approximately 50 acres, be developed to include the following items:

- a. A large building to be used for flower shows and horticultural displays of all kinds. Various horticultural gardens of a permanent nature might be a part of this development. A parking area to accommodate at least 1000 cars should be planned, and if possible it should be located so that it will serve other activities recommended for the area.
- b. Group and family picnic area. This recreational activity should be carefully integrated into the overall plan of the area in an inconspicuous manner consistent with the primary use of the area as an arboretum.
- c. Limited organized group camping facilities for Boy Scouts, Girl Scouts, boys' clubs and other youth welfare groups.

4. That the balance of the park, except for the intensively developed areas outlined in paragraphs 1, 2 and 3, and certain areas to be preserved in their present natural condition, should be laid out as an arboretum and botanic garden, taking full advantage of the wide variety of exposures, soil and moisture conditions and topography prevalent in the area.

In the development of the arboretum and botanic gardens it is strongly recommended that the arboretum not be planned as a display

of specimens, but rather that it be laid out for mass effects, selecting specific biotic communities and planning these as completely as possible. Each community of plants should be carefully selected to insure their normal, healthy growth under our climatic conditions. As suggested for the zoo, each unit should be accessible by automobile, with parking provided adjacent to each unit so that visitors may walk through the community on carefully laid out self-guiding trails.

The Board feels that the greatest mistake that might be made in the development of this arboretum is to attempt to create a botanical collection of plant specimens in an effort to grow the maximum number of plants. We believe that plant associations and the creation of typical life zones or forest patterns will give this arboretum an educational value and character that cannot be duplicated anywhere else in this country. Roads and paths and adequate signs can be used to integrate the entire development into a harmonious unit.

#### CONCLUSION

The various limitations placed on the development of the park through lease agreements, the complex topography and diverse purposes which the area must support, make it essential in the minds of the Planning Board that planning, development and operations must proceed cautiously and with wisdom in order that future generations may not be deprived of a heritage which has been provided, practically unspoiled, in one parcel of land within the heart of a great metropolis. Unless a logical, well balanced plan and program for development can be created and subsequently supported by public interest and enthusiasm to the

extent that adequate funds for both maintenance and development are assured, then in our opinion this generation does not have the right to spoil for future generations this invaluable piece of California landscape by improper planning and development and inadequate maintenance.

In conclusion, we wish to recommend as the next step in the development of a Master Plan, the need for securing the services of a competent Landscape Architect to prepare a master circulation plan for the entire area and detailed master plan studies for the three major areas mentioned previously in this report.

Following this phase of planning it would be possible to proceed with preparation of detailed working drawings and specifications by a technical staff of Landscape Architects, Architects and Engineers.

###

September 14, 1951

September 21, 1951

Mr. William Penn Mott, Jr  
Superintendent of Parks  
Room 1111, City Hall  
Oakland 12, California

Dear Bill:

I am returning to you the copy of the "Report to the East Bay Botanical and Zoological Society on the Development of Joseph R. Knowland State Arboretum and Park."

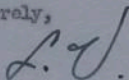
I have discussed the Report with Harper Goodspeed, and there are a few suggestions we would like to make. We think we should avoid any wording which will give the impression that we are personally going to prepare the plan. Thus, we suggest that on Page 2, where you have said, "The Master Plan Board was charged with the responsibility of preparing a master plan....", we would like to say something like: "The Master Plan Board was charged with the responsibility of supervising the preparation of a master plan."

We would also like to be most cautious about making specific recommendations, and believe that that section on Page 7 should carry an introductory statement which would read something like this: "Continuous study on all phases *of* the development is necessary. However, some specific recommendations which seem valid at this time may be made. In making these recommendations, we recognize that continued study may cause us to alter the recommendations listed below."

I have made some other minor suggestions concerning wording, which are noted on the copy of the Report I return to you.

We think it an excellent Report, and are grateful to you for the work you have done on it.

Sincerely,



H. L. Vaughan  
Chairman  
Division of Landscape Architecture

HLV:p  
cc: Dr. Harper Goodspeed

Sept. 25, 1951

Mr. O. Lundberg  
Controller  
Administration Building

Dear Mr. Lundberg:

A non-recurrent budget item of \$3000 for construction of toilet facilities at the Botanical Garden was allowed some two years ago and has been annually reappropriated.

I had originally expected to be able to have the work done by members of the garden staff during periods when garden work was not pressing. However, the increased demands for garden work and the greatly increased costs of lumber and plumbing fixtures has made it impossible to carry out this proposal.

If construction is to be done by a contractor the total cost will be \$5000. May I therefore request that consideration be given to an additional appropriation from closing recommendations of \$2000 for toilet facilities at the Botanical Garden.

Sincerely,

THG:<sup>1</sup>

October 12<sup>3</sup>, 1952

University of California Press  
Editorial Board, Series in Botany

Dear Dr. Foster:

I am submitting herewith for your consideration a brief manuscript entitled SPECIES ORIGINS AND RELATIONSHIPS IN THE GENUS NICOTIANA which I trust may prove acceptable for publication in the Botany Series under the "urgent" classification.

For many years I have been concerned with morphological, distributional and cytogenetic studies of the genus Nicotiana with a view to producing as complete a picture as possible of the origins and relationships of its sixty species. This picture is being presented in a monographic treatment which will I hope be published during the coming year by The Chronica Botanica Co.

The enclosed manuscript briefly summarizes a portion of what is included in the monograph but only as a background for presenting new material and for emphasizing and documenting certain points of view not previously expressed.

As early publication as possible appears justified because what is referred to above may be anticipated by other investigators, a number of whom as shown by the manuscript are working in the same general field.

Sincerely,

THG:T

May 21, 1952

Mr. O. Lundberg  
Controller

Dear Mr. Lundberg:

Enclosed is a check for \$105<sup>185</sup> representing prize money won by the Botanical Garden exhibits at the 1952 California Spring Garden Show, Oakland, and drawn in favor of the University of California Botanical Garden.

As in the past and at your suggestion I am bringing this to your personal attention in order that the sum involved may be credited directly to Botanical Garden South American Expedition (Account 64275-13-43760).

Sincerely,

THG:T

Berkeley 4, California  
November 7, 1952

Servicio de Documentacion Cientifica  
Consejo Superior de Investigaciones Cientificas  
Serrano 117  
Madrid, Espana

Gentlemen:

Corresponding to your request of October 21

I am enclosing, completed, the questionnaire  
contained in your letter.

Sincerely,

THG:T

21-10-1952



CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

SERVICIO DE DOCUMENTACIÓN CIENTÍFICA

Professor T.H. Goodspeed  
 Botanical Garden  
 Department of Botany  
 University of California  
BERKELEY 4, California (EE.UU.)

Dear Sir,

The "Consejo Superior de Investigaciones Científicas" (The Supreme Council for Scientific Research) of Madrid contains a section for International Scientific Documentation. Our aim is to obtain all kinds of information from all scientific Centres so that the members of our Council, both Professors and students, may have the information they need for their studies.

We should be very obliged if you would be so kind as to send us your scientific biography with photo, if possible; we should be delighted to publish eventually any information concerning your scientific activities.

We should be most grateful for an answer at your earliest convenience,

Yours truly

N.B. Please send your correspondence to the following section  
 Servicio de Documentación Científica.  
 Consejo Superior de Investigaciones Científicas.  
 Serrano 117. MADRID, España.

Questionnaire sent to  
Consejo - 11/8/52

Goodspeed

Thomas Harper

May 17, 1887

United States of America

married

Dept. of Botany, University of California  
Berkeley 4, California

AB Brown University; Ph.D. University of California;  
study and research, Scandinavia, Germany, France, England and  
especially Stockholm's Hogskolan, Kaiser Wilhelm Gesellschaft  
(Berlin-Dahlem), John Innes Horticultural Institution (London);  
Argentina (Doctor, honoris causa, La Plata).

**Cargos actuales:**

Professor of Botany and Director, Botanical Garden, University of California, Berkeley, California, U.S.A. Director (honorary) Jardin Botanico (Lima); organizer and designer Jardin Botanico Nacional (Chile).

**Research:**

Morphology, distribution, cytogenetics and taxonomy of the genus *Nicotiana*; character and distribution of the floras of Western South America (six botanical explorations in South America since 1935); plant cytology in general -- techniques, chromosome structure, effects of high frequency radiation, induced aneuploidy, chimerical conditions.

**Decorations and memberships scientific societies:**

Commander in "Orden Al Merito Bernardo O'Higgins" (Chile);  
Doctor honoris causa (Argentina)

National Academy of Sciences, Argentina (hon. member);  
Argentine Sci. Soc.; Argentine Agron. Soc. (1st hon. mem.);  
Buenos Aires Hort. Soc. (1st hon. mem.); Bid. Soc. of Montevideo;  
National Acad. Sci., Peru; National Acad. Sci., Chile; Chilean  
Sci. Soc.; Valparaiso Sci. Soc.; National Acad. Sci., Colombia;  
Soc. de Agricultores, Colombia; Soc. Natural History (Caldas"  
(Medellin).

**Fellow Linnean Society (London)**

Honorary member faculty; Univ. of La Plata, since 1939;  
Nat. Peruvian College of Agriculture "La Molina", since 1942;  
Nat. School of Subtropical Agriculture, Cali, Colombia, since 1943;  
Nat. College of Agriculture, Santiago, Chile, since 1948.

**Fellowships and research grants:**

Scandinavian-American Foundation; John Simon Guggenheim Memorial  
Foundation; National Academy of Sciences (USA); Instituto Darwinion  
(Argentina); American Philosophical Society; Rockefeller Foundation.

Invitation in 1948 to lecture and give technical advice; acceptance  
at that time was impossible.

Some one hundred and twenty-five books and articles on research topics listed above, among them:

The Genus *Nicotiana* (large monograph in press, Chronica Botanica Co.); La Citogenética y el cultivo de las plantas; Historia de la Botánica; Cytotaxonomy of the genus *Nicotiana*; Maturation of the gametes and fertilization in *Nicotiana*; Application of the Altmann freezing-drying technique to plant cytology; Phytogeography of Peru (in prep.); Phytogeography of Chile (in prep.); Cazadores de Plantas en Los Andes (B.A.); Studies in Geobotany (editor); Orígenes de la agricultura y desarrollo de la civilización; La importancia de la estructura y comportamiento del núcleo como vehículo de la herencia; Notas sobre las técnicas de frotis en el estudio de la citología vegetal.

Berkeley 4, California  
December 8, 1952

Consejo Superior de Investigaciones Cientificas  
Serrano 117  
Madrid, Spain

Gentlemen:

On October 15, 1952 I addressed Dr. Jose Maria Albareda who in 1948 was Secretary of the Consejo Superior de Investigaciones Cientificas. A copy of my letter is enclosed and also copy of Dr. Albareda's letter of February 12, 1948 to which my letter refers.

You will note that in October I called attention to the necessity of as early a reaction as possible to my tentative proposal to cooperate with your Consejo in 1953. It now has become imperative that I have an immediate response if I am to request the sabbatical leave to which I referred. In addition my research and other proposals for the coming year are entirely dependent upon your decision.

Sincerely yours,

THG:T

3  
copy of cable to Spanish  
consulate in San Francisco from  
Foreign Office in Madrid - Jan. 1953

The Superior Council of Scientific Investigation officially invites Professor T. H. Goodspeed, Head of the Botanical Garden of the University of California, to visit Spain while on his trip to Europe, any time which might be convenient to him, and give a short course in said Institute and develop research work in the Laboratories of the Institute of Edaphology and Vegetal Physiology, for approximately two months. This invitation would be as follows:

- a) For a term of two months
- b) He should be in Spain at the time most convenient to him
- c) The Council shall grant him a pension for his expenses while in Spain

Copy of cable to Spanish consulate in  
San Francisco from Foreign Office in Madrid  
January 1953

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PARK DEPARTMENT  
CITY OF OAKLAND, CALIFORNIA  
634 - 14TH ST.  
OAKLAND 12, CALIF.

June 19, 1952

*file  
mott*

Mr. Robert Bean  
Professor T. Harper Goodspeed  
Professor H. L. Vaughan

Master Plan Board  
Knowland State Arboretum and Park

Gentlemen:

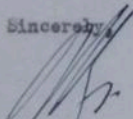
Attached to this memo is a copy of letter received from the East Bay Botanical and Zoological Society relative to our report on land allocation for the Knowland State Arboretum and Park, dated June 3, 1952.

I would like very much for you to study their comments and make your reply directly to me.

The little map attached to this report indicates the land which they have allocated for zoo entrance and arboretum.

The State Park Commission approved the Master Plan Report as submitted.

Sincerely,

  
Wm. Penn Mott, Jr., Chairman  
Master Plan Board

WPM-LMH

Encls.

P.S. - Professors Goodspeed and Vaughan:  
I would like to suggest that Vaughan, Goodspeed and Mott get together in the near future to discuss the letter of the East Bay Botanical and Zoological Society.

COPY

June 3, 1952

B.B.Gordon  
15765 Cordota Court  
San Lorenzo, Calif.

Wm. Penn Mott, Jr., Chairman  
Master Plan Board  
Park Department  
Oakland, California

Dear Mr. Mott:

In a letter dated April 28, 1952 the East Bay Botanical and Zoological Society notified you that a comprehensive study was then underway of the first report submitted by the Master Plan Board of which you are chairman.

The committee has now reported on its findings to the full Board of Trustees and the recommendations made by that committee, as discussed in this letter, have been unanimously approved. The report was a long time in preparation because the committee spent many hours both on an analysis of the recommendations offered in the report of your Board and on an on-the-spot investigation of the park grounds. It was felt that this first report on the development of the Knowland State Park and Arboretum - the allocation and proposed usage of the land - was in all respects the single most important step of all to be taken, since once agreement has been reached on this phase all other steps become a matter of form, although it is granted that they may take considerable time for completion.

The Society wishes first to express the sincere appreciation of its over 500 members to each and every gentleman serving on the Master Plan Board for giving so generously of his time, his knowledge, and his experience to effect a solution of the manifold problems involved in preparing the most efficient as well as practical plan for the ultimate development of the 450-odd acres that comprise this property. The magnitude of the task can well be understood by anyone who has ever set foot on the many acres of diverse topography and varied exposures that make up the property.

Secondly, we realize that this report is merely the first of several which will be required in the development of the ultimate plan and that it had to be set forth in very general terms. With many of the proposals the Society finds itself in full agreement, with some of the other phases we are inclined to differ and have, therefore, prepared some alternate proposals for consideration. The report of your Board is analyzed in considerable detail in the attached discussion, which has been arranged to coincide with the groupings of that report. In addition, the Society is submitting on the attached map of the property an alternate arrangement for the Zoological Gardens and associated Botanical Gardens and Arboretum with a list of the specific advantages of this arrangement as opposed to the disadvantages of the plan proposed in the Master Plan report. We feel that a more detailed consideration of the grounds in light of a number of such practical points and problems will clearly indicate the desirability of the location as suggested on our map.

Specifically we feel that the development of the park as an entity, as proposed in our existing Master Plan, is to be preferred to a series of unrelated activities grouped within a single area. Location of the Zoological Gardens as shown on our map offers these specific advantages:

1. Entrances to both the Botanical and Zoological Gardens would be readily accessible to the main entrance of the park which would make both areas open to pedestrian as well as vehicular travel.
2. The people of the City of Oakland and the surrounding areas to the south are greatly in need of a major park immediately and the proposed area offers the best solution since it is now adequately planted and will require a minimum of grading, new roads and other services.
3. The cost of effecting the transition we propose will be of a more reasonable magnitude and will permit of rapid expansion and full development of the land.
4. Our plan offers without any doubt a more effective arrangement for administration and policing.
5. There will be suitable protection from the winds and the fog and there will still be available a variety of exposures.
6. The area offers a natural segregation which can be utilized to attain certain segregation agreements now written into the lease and sublease between the State, the City and the Society.
7. Finally, the area as suggested in our proposal will permit the Society to put the first phases of the Master Plan more quickly into action, with available funds and at the same time that future planning is still underway.

The scheme as proposed in the Master Plan report, on the other hand, has these manifold disadvantages:

1. Time involved in reforestation of the area would be excessive.
2. Cost involved in land preparation and construction of roads and other services would delay development of the Zoological Gardens for many years and deprive the public of a form of relaxation and entertainment which they are presently using in ever-increasing numbers.
3. Prevailing winds and fog would be a handicap both to the public and to the rearing of the animals.
4. The rapid development of residential construction on the privately-owned property to either side of the area would make locating of animals not only difficult but practically impossible.
5. The rugged hill topography, which has a total difference in elevation of some 500 feet, will prevent enjoyment of the animals by mothers with young children, now one of the largest groups visiting the Zoological Gardens.

Wm. Penn Mott, Jr., - 6/3/52

6. In conclusion, the huge expense entailed in any worthwhile development would prevent the Society from ever developing the grounds on a self-sustaining basis and would make mandatory public support from the already overloaded tax rolls.

For all these reasons the Society feels that the arrangement suggested on the attached map will permit the development of the Arboretum, the Botanical Gardens, and the Zoological Gardens to the ultimate level and will, at the same time, offer to the public with the least delay a useable and outstanding park which can develop and grow steadily towards the ultimate Master Plan.

The Society is of the opinion - now that all interested parties have had ample time to study the problem, the proposals, and the possible solutions - that a meeting should be called between representatives of the State Park Commission, the Oakland Board of Park Directors and the East Bay Botanical and Zoological Society. We suggest the park grounds as the most logical meeting place and request that you, as Chairman of the Master Plan Board, call such a meeting at the earliest possible date. Such a meeting is in accord with the feelings of Mr. Newton Drury as expressed to us in a letter dated May 6.

Very truly yours,

EAST BAY BOTANICAL & ZOOLOGICAL SOCIETY

Bernard B. Gordon, Secretary

BEG:d

Enc. 1

cc. State Park Commission  
Board of Park Commissioners  
City Council

C O P Y

DISCUSSION OF

"Report to the East Bay Botanical and Zoological Society on the  
Development of Joseph R. Knowland State Arboretum and Park"

The Board of Trustees of the East Bay Botanical and Zoological Society have studied the report submitted by the Master Plan Board very carefully and have prepared the following discussion of part of the report included under Recommendations (starting on page 6) and continuing through to the end.

- A - 1. It has been a paramount objective of this Society since its inception in 1936 that ultimately there should be developed on the property the finest Zoological Garden and general purpose park that was possibly attainable. To achieve this aim it may become necessary to duplicate or improve upon features found in other parks both locally and nationally. Our objective has been the end result and not the means by which that end has been obtained.
2. This point we endorse heartily.
3. In our primary objective, the Society has always been striving towards a completely integrated whole as outlined in the Von Wetter Master Plan which had been officially approved in May, 1938 by the City Council of the City of Oakland, and not a series of individual units as suggested.
4. With point 4 we are in general agreement but had thought to provide additional parking within each specific area.
5. Again our primary objectives have been toward development of maximum educational values.
6. Point 6 we heartily endorse.
7. We agree with the stipulation that Arboretum, Botanical Gardens and Zoological Gardens be made an integral whole and not a series of disconnected parks within a larger area.
8. Point 8 is a sound practical statement and represents exactly our method of operation.
9. The Society cannot agree with point 9 as stated, although we realize that certain existing conditions need both modification and improvement. Both the pistol range and the driving range continue to receive heavy public patronage and should therefore be considered as desirable for inclusion in any final Master Plan, realizing of course that considerable improvement can be made in both the present grounds and structures.
10. It has always been one of the major aims of the Society to re-acquire the ERMUD holdings, which were taken from the Society some years ago for reservoir purposes and then never used. The area, it seems to us, has high potential value for a lake development, which could be of primary importance in a park such as this.

SPECIFIC

We agree that with continued study of the proposals specific recommendations such as have been offered will need revision and modification. To this end the following notes represent our feelings on the various items discussed.

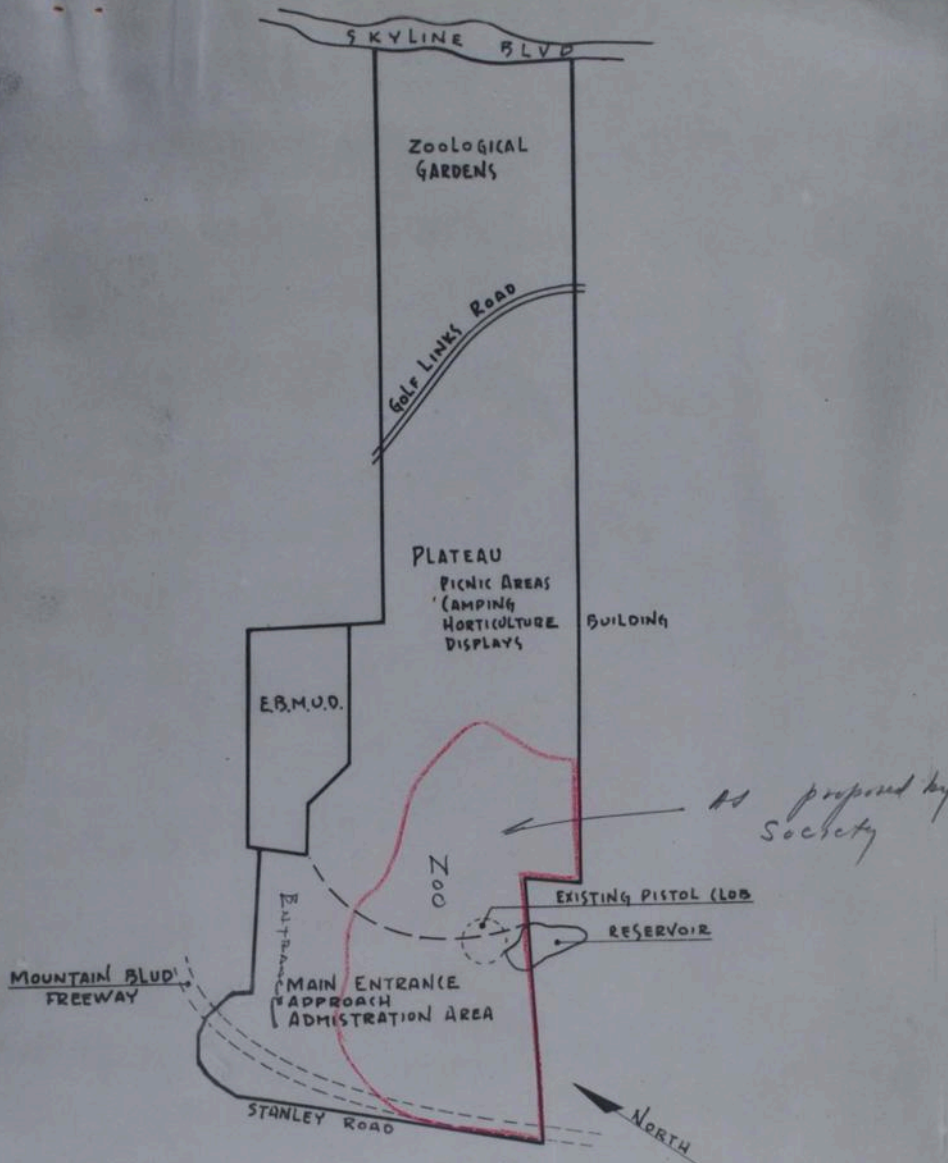
1. Our plan for location of the Zoological Gardens is shown on the attached map. The 110 acres suggested in the Master Plan for the Zoo could be better utilized as described in the Von Wetter Master Plan which had been accepted in 1938 by the Oakland City Council. The area might also be suitable for a camping spot such as is supplied in most State Parks.

Since this report purports to be a land use and allocation plan we feel that any discussion of type of exhibit or circulation is out of place at this time. Such topics will logically follow once the land is allocated, however, the Society agrees that a good Zoological Garden should provide land for buildings to house animal hospital and educational exhibits as was suggested.

2. On the other hand, the Society feels that in the area designated for main approach, etc., the natural beauty of the grounds and trees should not be destroyed by erection of any large buildings or offices or large parking areas. A small natural science museum with lecture and class rooms might be cleverly enough designed to nestle into the existing and future plantings in a harmonious manner.
3. The Society is in full agreement with the proposals for development of the plateau-like area which consists of approximately 150 acres in the central portion of the property with the suggestion that the location of the administration offices of the park might well be added.
4. With the rest of the suggestions contained in item 4 and the section entitled "conclusions" we are in full accord.

\*\*\*

6/3/52



**PROPOSED GENERAL LAND USE MAP**

**JOSEPH R. KNOWLAND STATE ARBORETUM & PARK**

GRAPHIC SCALE

1000 FEET

Dear Mr Goodspeed;

Feb. 9/8/52

It is a great pleasure  
for me in sending to you with my boy  
this souvenir with our national emblem  
having the Condor and the Huemul Chilean  
Andes animals, and the Copihues national  
flower. With my best regards I am your sincerely  
Hignelas July 21<sup>th</sup> 1952.

*[Signature]*



NATIONAL INSTITUTE OF ARTHRITIS AND METABOLIC DISEASES  
NATIONAL CANCER INSTITUTE  
NATIONAL INSTITUTE OF DENTAR RESEARCH  
NATIONAL HEART INSTITUTE  
NATIONAL INSTITUTE OF MENTAL HEALTH  
NATIONAL MICROBIOLOGICAL INSTITUTE  
NATIONAL INSTITUTE OF NEUROLOGICAL DISEASES AND BLINDNESS  
THE CLINICAL CENTER  
DIVISION OF RESEARCH GRANTS

Kindly send your  
reply directly to  
the undersigned.

We are pleased to inform you that Marion S. Cave has applied for a Special Research Fellowship from the Public Health Service for research studies in Plant Genetics and Embryology under the sponsorship of Dr. Lee Bonar, Dept. of Botany. He has given your name as a reference. The Public Health Service has NO DEADLINES for receipt of Fellowship applications. Therefore, receipt of your evaluation schedule as soon as possible will be a distinct advantage to the applicant.

From its inception, the Research Fellowships program has had as its major aim the support of promising young investigators in the medical and allied sciences. It has been our belief that through this program there would result a substantial increase in the number of highly qualified scientific research workers who would later become leaders in their chosen fields.

All Research Fellowship applications must compete in the face of severe competition of national proportions. Therefore, the Fellowship Boards will be greatly interested in your considered opinion of the candidate's qualifications as they indicate his research promise.

In order to enable you to supply this information with the least inconvenience to yourself and to insure insofar as possible that all candidates will receive consideration on a uniform basis, it is requested that you reply to the questions on the attached evaluation sheet by rating the applicant according to the scale shown on the front of the evaluation schedule. After recording your ratings, the second copy may be retained for your file.

Please feel free to use the reverse side of the evaluation sheet, and additional pages, if necessary to enlarge upon the particular aspects mentioned above (and others) that in your estimation particularly reflect upon the fitness of this applicant for a research career and for a Public Health Service Research Fellowship.

We appreciate your cooperation in this matter.

Sincerely yours,

*Ronald E. Scantlebury*  
Ronald E. Scantlebury, Ph.D.  
Chief, Research Fellowships Branch  
Division of Research Grants

Attachment

DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE  
Research Fellowships Branch  
Division of Research Grants  
National Institutes of Health  
Public Health Service

Evaluation Schedule  
For applicants for  
PUBLIC HEALTH SERVICE RESEARCH FELLOWSHIPS

Criteria for evaluation:

Please determine in which of the five groupings listed below you think the applicant falls for each of the traits listed and place that number in the appropriate blank of the inside pages.

1. OUTSTANDING: Clearly and unmistakably in the top 2 percent of students at his own level of development.
2. SUPERIOR: In the next 5 percent (i.e. 3 to 7 percent) of students at his own level of development.
3. VERY GOOD: In the next 10 percent (i.e. 8 to 17 percent) of students at his own level of development.
4. GOOD: Somewhat better than average. In the next 25 percent (i.e. 18 to 43 percent) of students at his own level of development.
5. Average or below.
- x. Where knowledge of the applicant is not adequate to permit rating on this trait, either through lack of acquaintance or lapse of time.

Return to: Dr. Ronald E. Scantlebury  
Chief, Research Fellowships Branch  
Division of Research Grants  
National Institutes of Health  
Bethesda 14, Maryland

Name of Applicant Manius Cave

The undersigned was acquainted with the applicant during the period from 1970 - date to \_\_\_\_\_

PLEASE USE NUMERICAL RATING 1 TO 5. (SEE FRONT PAGE).

- a. Is the applicant's formal scientific background and/or research experience thus far of such caliber to indicate that he will successfully undertake the research problem or training elected by him? \_\_\_\_\_
- b. Does the applicant exhibit "research promise" and possess the necessary stamina and drive to indicate that he will contribute significantly to research in the medical and allied sciences? \_\_\_\_\_
- c. Aside from originality of ideas, does the applicant possess the necessary technical ability and skills to undertake a research problem in the general field of his interest? \_\_\_\_\_
- d. To what extent might the applicant, with the additional training requested, be expected to make original, independent contributions to his chosen field? \_\_\_\_\_
- e. Does the applicant read widely and discuss problems with his fellow scientists, and is he able to organize and coordinate such information in an adequate manner? \_\_\_\_\_
- f. Does the applicant possess proper laboratory deportment in student and research laboratories, such as, ability to work with the group, to exchange and share ideas, neatness, accuracy, and perseverance? \_\_\_\_\_

- g. Is the candidate free from personality and physical handicaps which would make it difficult for him to utilize his research abilities? (Encircle)  Yes No
- h. Do you believe the applicant to be loyal to the Government of the United States? (If answer is no, please explain) (Encircle)  Yes No
- i. From an all-around knowledge of the character, ability, and promise of success do you recommend the applicant for the Public Health Service Research Fellowship for which he has applied? (Encircle)  Yes No

Please feel free to enlarge upon the particular aspects of the applicant's training or abilities that in your estimation will be of special significance in judging the applicant's fitness to be awarded a Public Health Service Research Fellowship. (Use the reverse side of this sheet for additional comments).

Signature \_\_\_\_\_

Title \_\_\_\_\_

Department \_\_\_\_\_

Institution \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Date \_\_\_\_\_

COMMENTS

I believe that all investigators in Dr. Cave's  
chosen field of research would agree that she  
possesses unique qualifications for the  
Fellowship for which she is applying.

Jan. 1953

My colleague, Dr. Lincoln Constance, is one of the most highly esteemed North American students of plant taxonomy with an enviable record of research accomplishments. He has long been concerned with obtaining South American material of the families in the systematics of which he has become the leading authority and I and my assistants during our numerous South American botanical expeditions have been able to assist him in certain isolated instances. Indeed, the evidence which these small contributions provided has doubtless influenced the formulation of the proposals he outlines in his application and which we have often discussed.

Having long been concerned with advancing knowledge of the composition and distribution of the floras of temperate Western South America and having in preparation a monograph on the phytogeography of Chile I am keenly aware of the significance of the studies Dr. Constance would pursue. They will represent the first attempt by a competent investigator to interpret the relationships and distribution of specific plant groups in terms of these broad outlines of the floristics of Western South America which, up to this time, are the only ones available. Of even greater significance will be the opportunity which his proposals provide to throw light upon intercontinental relationships, a problem which demands the type of definitive data which Dr. Constance would secure.

From every point of view I consider Dr. Constance a most acceptable candidate for the Fellowship.

Among some twelve teaching assistants who have been in charge of the laboratory portion (6 hours per week) of my advanced course in Plant Cytology over a period of thirty years he was outstanding. On his own initiative he completely revised the laboratory outline which had previously been in use, making significant changes and additions to the material to be used in the laboratory and amplifying and improving descriptions and directions.

The character and quality of this piece of work in a field in which he was not primarily interested is an illustration of the breadth of his biological background and his capacity to express his ideas in a clear, logical and condensed manner.

Sherwin Carlquist  
Nat. Sci. Foundation Fellowship

Dear Prof. Goodspeed - I cannot tell you how deeply I appreciate those lovely azaleas and the fuchsia which you directed Mr. Bryden to give me. It was a lovely thing for you to do and my husband and I both deeply appreciate it. In fact, as this year draws to a close -

I find myself<sup>2</sup> looking back over  
the last few months with a  
feeling of sincere gratitude  
for the many kindnesses  
shown to me. The work over  
in the Hall of Flowers was hard  
in many ways - but really a  
privilege and I don't know  
how I shall ever be able to ade-  
quately thank the many in-  
dividuals, the Garden Clubs -  
the City Park Departments of  
Piedmont and Oakland, and the

3

the growers - all of whom helped  
to make the work of our County  
go so smoothly and pleasantly,  
and I cannot close without ex-  
pressing my appreciation  
for all that Mr. Bryden did. I  
felt that a large part of the  
interest in and success of  
the Hall of Flavors was due to  
the ~~generosity~~ material sent by the  
University of California and I feel that  
Mr. Bryden was most generous and most  
discriminating in his choice of plants ex-  
hibited. Again thanking you - and with all  
good wishes for a joyous Holiday Season - Sincerely  
Wm. B. Brown