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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.

TECHNISCHE UNIVERSITÄT BERLIN

Fachbereich 5

INSTITUT FÜR ORGANISCHE CHEMIE

Direktor: Professor Dr. F. Bohlmann

BERLIN

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, 1000 Berlin 12

Dr. R. M. King
Dept. of Botany,
National Museum of
Natural History,
Smithsonian Institution,
Washington, D. C. 20560
U.S. A.

Telefon: (030) 314-2252

Berlin, den 1 December 1980

Dear Dr. King,

Thanks for your letter. I hope you got the money already. If possible
it would be nice to have a copy of Dr. Robinson's paper on Heliantheae.

Kind regards

F. Bohlmann

TECHNISCHE UNIVERSITÄT BERLIN

Fachbereich 5

INSTITUT FÜR ORGANISCHE CHEMIE

Direktor: Professor Dr. F. Bohlmann

BERLIN

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, 1000 Berlin 12

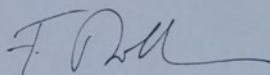
Dr. R. M. King
National Museum of
Natural History,
Smithsonian Institution
Washington, D. C. 20560
U. S. A.

Telefon: (030) 314-2252
Berlin, den 6 January 1981

Dear Dr. King,

Thanks for your letter. Enclosed some new results.
When you are going to Brazil?

Kind regards



Encl.

357-2545

February 23, 1981

Prof. Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17. Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Under separate cover I have just sent you two more packages of plants from Brasil. I hope that everything has now arrived in good condition.

I hope to be able to send you the names of the plants soon. I would like to request that you process the material of Eupatoriaceae first. This way, all of your papers can be cited in my final work on Eupatoriaceae.

Incidentally I must have my manuscript to the editors by the end of July (this year!).

Kind regards,

Robert M. King
Department of Botany

357-2545

March 11, 1981

Prof. Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

I am writing again to inquire if the samples that I sent to you from Brasil arrived. Apparently either you have been away or my letter got lost.

On another matter I have a question. I am planning to go to Australia to attend the International Botanical Congress in Sydney. Could you have money for me to stay on an extra week to collect Compositae for you. I would request money for car rental, lodging, air cargo, etc. It would probably be at least \$1,000.00.

Could you let me know about this as soon as possible, as I have to buy a ticket at a reduced price and the travel dates cannot be changed later.

I will be sending you the names of the Brazilian samples soon.

Sincerely,

Robert M. King
Department of Botany

TECHNISCHE UNIVERSITÄT BERLIN

Fachbereich 5

INSTITUT FÜR ORGANISCHE CHEMIE

Direktor: Professor Dr. F. Bohlmann

BERLIN

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, 1000 Berlin 12

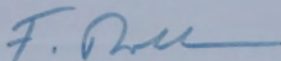
Dr. Robert M. King
National Museum of
Natural History
Smithsonian Institution
Department of Botany
Washington, D.C. 20560

Telefon: (030) 314- 2252
Berlin, den 11.3.1981

Dear Dr. King,

thank you for all the plant material, which we have received in good condition including the last two packages. In the meantime we have been for a month in South Africa, where we also got about 200 new species. Now a really large collection of new extracts are waiting for investigations. Of course we can start with all species belonging to the Eupatorieae.

Kind regards



(F. Bohlmann)

357-2545

March 25, 1981

Prof. Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17. Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your two letters and the new manuscripts.
On the manuscript on Senecio smithii you might want to
make mention of the fact that this species was noted as
being used for food for horses. This is very unusual as
the genus is usually avoided by animals. In any event
you may wish to consider it.

I will be sending you a partial list of names shortly.

Sincerely,

Robert M. King
Department of Botany

357-2545

April 10, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Enclosed please find a partial list of identifications for the samples that I collected for you. I have made some annotations on the list for your consideration. The remaining names will be sent later.

I would appreciate it if you could give priority to Acritopappus phunifolius # 8749. It should prove to be very interesting. It might also be interesting to re-examine the other samples of Acritopappus again.

Sincerely,

Robert M. King
Department of Botany

357-2545

April 15, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches
Institut der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letter. R. M. K. 8131 is Chromolaena
morii R. M. King and H. Robinson. Let me know the numbers
of others that you need. I have already sent you a partial
list for my last Brasil trip.

Sincerely,

Robert M. King
Department of Botany

May 18, 1981

Dear Dr. Bohlmann,

Thanks for your letter, the new results and manuscripts. Regarding *Acratopappus prunifolius* - the name is correct and the difference in chemistry is not too surprising. There is an interesting story that can be written on this genus. We will send you a copy to review and approve later.

I am sending you a sample that I recently collected. I hope that it arrives in good condition.

Sincerely,

Robert M. King

May 8, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letter. I am glad to learn that the list of names arrived. RMK 8131 and 8122 are Chromolaena morii K. & R. RMK 7379 is Fleischmannia imitans (B.L. Robinson) K. & R. RMK 8500 must still remain as Aspilia sp. There are a number of other collections of Aspilia and it will take quite a bit of work to resolve them.

Let me know if there are other collections that you need names for.

Sincerely,

Robert M. King
Department of Botany

June 9, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your recent letter and the new manuscripts.
In future correspondence, please be sure to include Botany
Department and Stop # 166, as part of my address.

Here are some more names for you:

- 8183 *trichogonia salviaeifolia* Gardn.
- 8330 *Senecio pohlii* Sch. Bip. ex Baker
- 8640 *Calea villosa* Sch. Bip. ex Baker
- 8666 *Pseudostiffia kingii* H. Robinson
- 8678 *Erechtites hieracifolia* (L.) Raf.

More names later but many are in some very difficult
genera.

I am planning a trip to Peru this next January. There
should be quite a few different genera and species that
you have not analyzed before. Will you be able to support
this trip?

I would also suggest that we plan collecting trip to
both, Argentina and Chile. As you well know, there are
many genera and species of *Mutisieae* there that have never
been studied chemically.

Also, I would like to suggest that we collect in
Australia. Again, the *Compositae* there are very different
from all others. When I am in Sydney in August, I will make
plans and arrangements for future work there.

Page 2

June 9, 1981

There are suggestions of places that I think we should collect, in order to get as wide a variety of Compositae as possible.

Enclosed is a Xerox copy of some corrections to one of the manuscripts.

With kindest regards.

Sincerely,

Robert M. King
Department of Botany

Enclosure

TECHNISCHE UNIVERSITÄT BERLIN

Fachbereich 5

INSTITUT FÜR ORGANISCHE CHEMIE

Direktor: Professor Dr. F. Bohlmann

BERLIN

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, 1000 Berlin 12

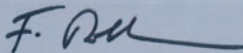
Dr. R.M. King
National Museum of
Natural History
Smithsonian Institution
Washington, D.C. 20560
U.S.A.

Telefon: (030) 314- 2252
Berlin, den 18.6.1981

Dear Dr. King,

enclosed some new results. Do you have ideas concerning the relationship of Goyazianthes? In what subtribe you would place this genus and do you have published a note on this new genus? As there are some new diterpenes, we shall publish the results soon and it may be good to add some botanical aspects.

Kind regards



(F. Bohlmann)

357-2545

June 26, 1981

Dr. F. Bohlmann,
Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Enclosed is a copy of the Phytologia paper in which
the genus Goyazianthus is described and placed in the
subtribe Alomiinae.

Enclosed also is a Xerox of a letter that I just
received from Mainland China. It seems that you both could
perhaps help each other.

On another matter, you have made an analysis of
Brickellia diffusa (Vahl) Gray # 8549 and Chromolaena
corymbosa (Aubl.) Ktze # 8548.

Both of these collections are based on seed collected
by Dr. J. J. Jimenez in the Dominican Republic. We grew
the plants from seed in our greenhouse. Please acknowledge
Dr. Jimenez in your paper.

With kind regards,

Sincerely,

Robert M. King
Department of Botany

Enclosure

357-2545

July 13, 1981

Dr. F. Bohlmann, Direktor
Organism-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your recent letter. In my earlier letter I was only suggesting areas where we should collect Compositae during the next five years or so.. Right now, I am only requesting that you partially support a trip to Peru in January, 1982. As always the Smithsonian also will partially support this trip. I will still have to ask you for \$5,000.

Incidentally in my trip to Australia in August I will probably not need any funds from you. In any event all that I would ask for would be reimbursement of shipping material to you in Berlin. I will be mainly using this trip to Australia to attend the International Botanical Congress, to get to know botanists and arrange for their cooperation on subsequent trips. Of course, I will try to arrange to have them send you material directly.

I hope this clears up everything.

Sincerely,

Robert M. King
Department of Botany

357-2545

July 20, 1981

Prof. Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17. Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your two letters.

With regard to Chromolaena corymbosa I am sure that I sent you some material that we had grown in our greenhouse from seed that was sent to me from the Dominican Republic by Dr. Jimenez. His collection was 8548 and perhaps it was confused with my series.

Goyazianthus is not closely related to Hartwrightia. It is, in fact, a member of the Brickellia group that was indicated in the Goyazianthus paper.

The genus Stillpnopappus should be placed in the subtribe Vernoniinae.

I hope that this clears up everything.

With kindest regards,

Sincerely,

Robert M. King
Department of Botany

357-2545

July 23, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Under separate cover I have just sent you some material of Rugelia nudicaulis Shuttler ex. Chapman. This species is especially interesting in that some people consider it a Cacalia or a true Senecio, but it is better placed in a separate genus.

I would request that you analyse it as soon as possible, especially considering it not to be a true Senecio. After you have published on this matter, we would like to write another paper summarizing the genus.

The plant material is from Tennessee and was collected for us by my good friend D. J. L. Collins. Please acknowledge him in the paper.

Sincerely,

Robert M. King
Department of Botany

357-2545

July 31, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your recent letter and the manuscripts.

The genus Eremanthus does have variation, but the material of Eremanthus glomeratus that I sent you appears quite uniform. It would be of interest to report the chemical differences even though the vouchers do not show any significant variations.

The Mikantias that you mentioned are:

Mikania pohlii (Baker) K. & R.
Mikania goyazensis (B. L. Robinson) K. & R.

Enclosed are Xeroxed pages of manuscripts indicating needed corrections.

Sincerely,

Robert M. King
Department of Botany

Enclosures

357-2545

August 5, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letter and the new manuscripts. One correction for the paper on Stilpnopappus. R. M. K. 8785 should be Stilpnopappus pickelii Mattf. instead of S. morii.

I was pleased to learn that you got the money for Peru. I only hope that inflation will stop.

I will leave for Australia on August 13, and will return by the end of the month. I hope that I will be able to work out some future collecting arrangements. I have also been invited to collect in Taiwan in 1983. It would not cost very much, because of this invitation. Also, there are a number of interesting species there.

Sincerely,

Robert M. King
Department of Botany

357-2545

August 12, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letter and the new manuscripts.

In regard to the Goyazianthus paper, I think that it is best to say that the chemistry does not always follow the taxonomy. The taxonomy of the subtribe Alominae is based on floral morphology and anatomy. In fact, when I first observed living material of Goyazianthus this spring in Brasil, I was even more convinced. I hope that this satisfies the referee.

With kindest regards,

Sincerely,

Robert M. King
Department of Botany

357-2545

September 3, 1981

Dr. F. Bohlman, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlman:

I have just returned from a very pleasant and profitable trip to Australia. The Congress was very well organized and many interesting papers were presented.

I made a number of useful contacts for future collecting. I have been invited to Perth, western Australia, next August for a month. They have offered to house and feed me and the University of Western Australia will provide transportation free for me. It seems that all I would have to provide would be my transportation and money to ship material, air cargo, to you in Berlin. There would probably be some other costs but it sounds pretty good to me. What do you think?

Sincerely yours,

Robert M. King
Department of Botany

357-2545

September 15, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Under separate cover, I am sending you some material of Pseudobrickellia pinnifolia (A. Gray) K. & R., for your analysis. This material was collected for us by Dr. T. S. Filgueiras in Brasilia, Brasil. His collection number is 892. This species is of special interest to us and I hope that you will be able to get some results. If you write a paper based on this material, would you please acknowledge his help.

Sincerely,

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Robert M. King
Department of Botany

357-2545

September 17, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Under separate cover, I am sending you another package of material for your chemical study. The material was collected by Dr. Guy Nesom, of Memphis State University in Tennessee. I believe that it is of the genus Chaptalia. I believe that Dr. Nesom has already written to you about this.

Sincerely yours,

Robert M. King
Department of Botany

cc: Dr. Guy Nesom

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
Department of Botany
National Museum of
Natural History
Smithsonian Institution
Washington, D.C. 20560

FACHBEREICH 5
SYNTHETISCHE
UND
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CHEMIE

Institut für
Organische
Chemie

Direktor: Professor
Dr. F. Bohlmann

☎ (030) 314- 2252

Datum 23.9.1981

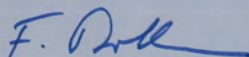
Dear Dr. King,

we are just back from a three weeks holiday. I think I
can get the necessary money from your travel to Australia.

As soon as you know what you need I shall ask for it.

Thanks for the plant material we got to day.

Kind regards



(F. Bohlmann)

357-2545

October 5, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letter. I will now make some plans
for a trip to Australia. I will send you the necessary
information soon.

Under separate cover, we are sending you material of
Trichogoniopsis morii R. M. King & H. Robinson, R. M. King
8178 from Bahia, Brasil. This material was grown in our
greenhouse.

Sincerely yours,

Robert M. King
Department of Botany

357-2545

October 15, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

I am writing to request that you send me the \$5,000
for the trip to Peru. This request is prompted by the
fact that I need to pay for the airplane tickets very soon.
If I pay for them now, I can get a cheaper price.

Thanks in advance.

Sincerely yours,

Robert M. King
Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
National Museum of
Natural History
Smithsonian Institution
Dept. of Botany
Stop 166
Washington DC 20560
U.S.A.

FACHBEREICH 5
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Direktor: Professor
Dr. F. Bohlmann

☎ (030) 312252

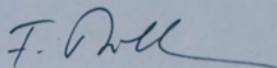
Datum 10 Nov 1981

Dear Dr. King,

Thanks for the additions to the four papers, which I shall add in the
proofs.

Digitized by Hunt Institute for Botanical Documentation

Kind regards

A handwritten signature in dark ink, appearing to read 'F. Bohlmann', with a long horizontal stroke extending to the right.

357-2545

November 16, 1981

Dr. F. Bohlmann Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17. Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letter and the new manuscripts. Enclosed is
sheet of comments regarding these pages.

Very sincerely,

Robert M. King
Department of Botany

Enclosure

Digitized by Hunt Institute for Botanical Documentation

series # 441. Introduction line 1 spelling Heliantheae
Neurolininae

page 4. line 3. So far no lactones of the 13 type have been . . .

line 5. Also the compounds 1 - 5 have previously been
isolated only from a Calea species.

series # 440

page 4. Is the name ichthyothermolide best? as formed it
produces the unit "therm" which is from a totally
different word. "Therm" means heat while ~~there~~
refers to hunting. Better ichthyotheremolide.

page 9 paragraph 2, third line (enđ).

So far melampolides have been reported outside of the
Melampodiinae from only one Sisagesbeckia species (17, 18).

The latter is placed in the Milleriinae (3).
(omit rest of line 5)

The statement sent to you for this paper must have arrived
since you sent this manuscript. If the discussion of the
ichthyotherol is correct, it can be modified into a paragraph
following on the bottom of this page.

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
Department of Botany
National Museum of
Natural History
Smithsonian Institution
Washington, D.C. 20560

FACHBEREICH 5
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Direktor: Professor
Dr. F. Bohlmann

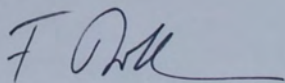
☎ (030) 314- 2252

Datum 19.11.81

Dear Dr. King,

enclosed some new results. Unfortunately Chaptalia does not
contain characteristic compounds. I still could not send
you the money for Peru. I hope I will get it in the next
days. There was some delay due to a misunderstanding.
But you can be sure that you will get it. I hope I have
not written nonsense in the introduction of the Trichogoniopsis
paper.

Kind regards



(F. Bohlmann)

Dr. R. M. King
National Museum of
Natural History
Smithsonian Institution
Dept. of Botany
Stop 166
Washington DC 20560
U. S. A.

FACHBEREICH 5
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Institut für
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Chemie

Direktor: Professor
Dr. F. Bohlmann

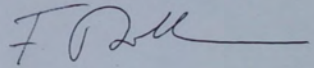
☎ (030) 314-2252

Datum 8 Dec 1981

Dear Dr. King,

Thanks for the corrections. I hope you have got the money for the next trip. Anyway it must come very soon.

Kind regards

A handwritten signature in dark ink, appearing to be 'F. Bohlmann', written in a cursive style.

357-2545

December 23, 1981

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17. Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Many thanks for the check which arrived recently. I will be leaving for Peru on the first of January. Hope to be sending you much interesting material.

With kind regards,

Sincerely,

Robert M. King
Department of Botany

357-2545

February 8, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17. Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your recent letter. Regarding the enclosed copy of the letter from Dr. Dale Smith, we have heard of the name but do not know him. Both Dr. Robinson and I feel that it would probably be good for you to collaborate with them. The subtribe Madiinae is very interesting and provide some useful biochemical information.

I just recently returned from my trip to Peru. I must confess that it was certainly not one of my most successful trips. I became very ill with food poisoning (*Salmonella*) and other problems.

In any event, I was able to get ca. 42 samples for you. Even though the number of samples is small, the price per sample is about what it has been. I did not spend all the money. I am already planning another trip next year.

Sincerely yours,

Robert M. King
Department of Botany

357-2545

March 5, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letter. I'm glad to learn that you have plenty of material to work. Sorry that this trip turned out as it did. However, as I mentioned earlier, I spent ca half the money so in some ways it was not so bad.

Have you had a chance to analyse the material of Bishopiella and Pseudobruckellia that I sent you. If not, I'd appreciate it if you would give some priority to them.

Sincerely yours,

Robert M. King
Department of Botany

357-2545

March 29, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letter and the reports on the species of
Pseudobrickellia and Bishopiella. The genus Bishopiella belongs
to Gyptis group. There was no copy of the Pseudobrickellia paper
enclosed.

Probably later this week I hope to send you the new list of
plants that were collected in Peru.

Sincerely yours,

Robert M. King
Department of Botany

357-2545

April 26, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Enclosed please find the list of names for the chemical material that was sent to you earlier. You will note that there are three collections of Encelia canescens Lam. The voucher plant specimens looked very different when collected. I would suggest ~~that~~ the chemistry might also be different.

Last week we sent three samples that I collected for you in California. I hope that they arrived in good condition.

I would request that you analyze # 9053 Paranephelius uniflorus. We are curious to see your results on this one. I never did receive copies of earlier manuscripts ~~that~~ you mentioned.

I am sorry for the long delay in sending you these names but I have still not recovered from my illness in Peru.

Kind regards.

Very sincerely,

Robert M. King
Department of Botany

Enclosure

- 8993 *Encelia canescens*
8994 *Trixis paradoxa*
9000 *Senecio richii*
9001 *Ophryosporus peruvianus*
9003 *Coreopsis fasciculata*
9004 *Viguiera pazensis*
9005 *Baccharis tricuneata*
9007 *Baccharis tricuneata*
9008 *Senecio collinus*
9009 *Encelia canescens*
9010 *Encelia canescens*
9014 *Syncretocarpus sericeus*
9015 *Mikania micrantha*
9017 *Paracalia jungioides*
9018 ^O~~X~~ *Helipsis bupthalmoides*
9023 *Viguiera lanceolata*
9024 *Wedelia helianthoides*
9025 *Perymenium featherstonei*
9026 *Viguiera pazensis*
9027 *Flourensia macrophylla*
9028 *Baccharis*
9030 *Baccharis chilco*
9032 *Coreopsis nodosa*
9034 *Senecio usgorensis*
9037 *Ageratina azangaroensis*

- 9038 *Baccharis sternbergiana*
9041 *Senecio ochoanus*
9042 *Ophryosporus chilca*
9043 *Senecio usgorensis*
9046 *Villanova titicacensis*
9047 *Barnadesia dombeyana*
9048 *Jungia stuebelii*
9053 *Paranephelius uniflorus*
9056 *Baccharis uniflorus*
9057 *Senecio collinus*
9058 *Senecio adenophyllus*
9059 *Senecio adenophyllus*
9060 *Senecio minesinus*
9062 *Werneria stuebelii*
9067 *Gynoxys nitida*
9068 *Senecio minesinus*
9069 *Senecio collinus*
9071 *Ageratina azangaroensis*

357-2545

May 10, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

I hope that you are now over your problem and out of the hospital.

Enclosed please find some pages of the typescripts that you sent earlier. We have noted in red some changes that should be made.

Sincerely yours,

Digitized by Hunt Institute for Botanical Documentation

Robert M. King
Department of Botany

Enclosure

357-2545

May 19, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

I hope that this letter finds you well and out of the hospital.

Enclosed please find ~~some~~ pages of the two typescripts that you recently sent. We have indicated in red some suggestions for your attention.

Also I am enclosing the list of numbers with some names. You will note that many are either Aspilia or Wedelia. These represent very difficult groups and it will take some time to resolve them. It may be more than a year. It would be best that you not analyze them at this time.

Very sincerely,

Robert M. King
Department of Botany

Enclosure

June 8nd, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your two letters. Glad to learn that you are out of the hospital. If one has to have a heart attack, then Berlin is a good place to have it. I hear that there are very good medical facilities there.

Under separate cover I have sent you a sample of Krigia. Would it be possible for you to have this analyzed promptly. If possible, I would like to see a typescript as soon as possible. This is needed for some justification. The plant material was collected in West Virginia with the help of Dr. E. E. Hutton of Elkins.

With kind regards.

Very sincerely,

Robert M. King
Department of Botany

357-2545

June 18, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Enclosed are the vouchers from Costa Rica that were received today. The correct names are indicated on the folders. One specimen, Montanoa atriplicifolia is of interest and we would like to know the name of the collector for citation purposes.

Corrections or comments on the enclosed manuscripts will be sent later.

Sincerely,

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Robert M. King
Department of Botany

Enclosure
RMK:cap

357-2545

June 23, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Enclosed please find some pages from the typescripts that you recently sent. Some suggestions have been written in red that you may wish to incorporate in the papers.

In the paper of Ageratum we have added a paragraph on page 5 that perhaps should be added. It is quite possible that you will want to rewrite it.

Here are the names for the plants that I sent you from California.

RMK 9072 *Encelia californica* Nutt.
RMK 9073 *Chrysanthemum cononarium* L.
RMK 9074 *Baccharis viminea* DC

Sincerely yours,

Robert M. King
Department of Botany

RMK:cap
Enclosures

Dr. R. M. King
National Museum of
Natural History
Dept. of Botany
Stop. No. 166
Smithsonian Institution
Washington DC 20560
U. S. A.

FACHBEREICH 5
SYNTHETISCHE
UND
ANALYTISCHE
CHEMIE

Institut für
Organische
Chemie

Direktor: Professor
Dr. F. Bohlmann

☎ (030) 314-2252

Datum 30th June 1982

Dear Dr. King,

Thank you very much for the proposed corrections which I shall include in the proofs.

Enclosed some species from Paraguay which a new coworker has brought. Could you have a look whether the names are correct? It is not necessary to send back the vouchers.

With kind regards

F. Bohlmann

881-9290

357-2545

July 9, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letter and the plants for identification.
The correct names are as follows:

Vernonia chamaedrys Less. = *Vernonia chamaedrys* Less.
Baccharis microcephala (Less.) DC = *Baccharis microcephala*
(Less.) DC.
Vernonia tweediana Baker = *Vernonia tweediana* Baker
Eupatorium multicrenulatum = *Disynaphia multicrenulatum*
(Sch.-Bip. ex Baker) King and Robinson
Vernonia sceptrum Chodat = *Vernonia platensis* (Spreng.) Less.

I also report RMK 9075 as *Krigia biflora* (Malt.) Blake.
Hopefully you will find enough interesting compounds to make a
paper on the Krigia material.

Sincerely yours,

Robert M. King
Department of Botany

RMK:cap

357-2845

July 22, 1982

Dr. F. Bohlmann, Director
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17.
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Under separate cover, I have just sent you some plants that
I collected for you in Colorado. I hope that they arrive in
good condition.

I expect to sent you the names soon.

Sincerely yours,

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Robert M. King
Department of Botany

357-2545

July 29, 1982

Prof. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for the manuscripts. We have marked in red some changes that you might wish to consider.

No problem on the Krigia results. I was hoping to justify my trip to get the material.

Sincerely yours,

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Robert M. King
Department of Botany

RMK:cap
Enc.

357-2545

August 4, 1982

Prof. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17.
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

I have just received an invitation to collect Compositae in Taiwan next June. There are a number of genera and species endemic to the island that would probably add to our knowledge.

I am still planning another trip to Peru this January and would also like to accept this invitation for June as well. The best months to collect in Taiwan are May, June and July.

My question is this: Would you be able to support these trips? I, of course, will probably be able to get some money here.

Looking forward to your reply.

Sincerely yours,

Robert M. King
Department of Botany

RMK:cap

August 6, 1982

Dr. F. Bohlmann, Direktor
Organisch-chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Under separate cover, I am sending you material of Marshallia grandiflora Beadle and Boynton and Heliopsis helianthoides (L.) Sweet for your study. These collections are not numbered but were collected by Dr. E. E. Hutton, Jr. in West Virginia. Please acknowledge him in any publication.

Also, it seems that I may be able to send you material of Hymenopappus for your study. I contacted a friend in Texas and he will look for it this weekend.

Sincerely yours,

Robert M. King
Department of Botany

RMK:cap

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
Department of Botany
National Museum of
Natural History
Smithsonian Institution
Washington, D.C. 20560

FACHBEREICH 5
SYNTHETISCHE
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Institut für
Organische
Chemie

Direktor: Professor
Dr. F. Bohlmann

☎ (030) 314- 2252

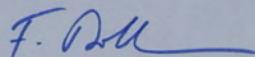
Datum 17.8.1982

Dear Dr. King,

thanks for the letter and the plant material which we have
received today in good condition.

Digitized by Hunt Institute for Botanical Documentation

Kind regards

A handwritten signature in blue ink, appearing to read 'F. Bohlmann', with a long horizontal stroke extending to the right.

(F. Bohlmann)

357-2338

August 19, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Just a short note to let you know that I will not be able to send you material of Hymenopappus for your study. It seems that the plant flowers in the spring and is not available now. I expect that I can send some next year. The requested note on relationships is included.

Sincerely yours,

Robert M. King
Department of Botany

RMK:cap
Enc.

The chemical similarity between Villanova and Schkuhria is undoubtedly a reflection of rather close relationship between the genera. The two are also similar in many structural features, and they have been placed close to each other in the traditional systems of classification (Bentham & Hooker, 1873; Hoffmann, 1890-94). The two genera were placed in different subtribes in the recent revision of the tribe by Robinson () on the basis of mechanical difference in the achene wall, but the subtribes are considered closely related.



The New York Botanical Garden

200, Southern Boulevard, Bronx, New York 10458

(212) 220-8700
8661

Contribution. Let me note if you would like to contribute to the co-authorship to such a review.
September 1, 1982

Dr. Ferdinand Bohlmann
Institut für Organische Chemie
Technischen Universität Berlin
Strasse des 17. Juni 135
D-1000 Berlin 12, West Germany

Dear Dr. Bohlmann,

I am sending under separate cover a copy of my recently published treatment of "Sesquiterpene Lactones as Taxonomic Characters in the Asteraceae". This 474 page treatment of sesquiterpene lactone distribution, and to a lesser extent furanosesquiterpene distribution, is an attempt to provide both a detailed reference and a discussion of the current methods used in applying terpenes as taxonomic characters. I hope that you find it useful in your work.

Now that this sesquiterpene lactone review is completed, I am interested in beginning a broader study of all terpenes in the Asteraceae. Knowing your contributions in this area, I would like to suggest that we co-author such a review. I can appreciate that you have many commitments to your sizable research program and probably have little time for such an undertaking. Accordingly, I am willing to do the bulk of the literature search, compilation and organization of the manuscript. I would depend heavily on you for knowledge of terpene distribution and biogenesis and recent published and unpublished results from your laboratory.

I feel that the next five years will yield considerably more terpene distributional data and more discussion of their role in systematics. The next International Botanical Congress in Berlin (1987) would be a very timely deadline for the completion and publication of such a review. The format used in my BOTANICAL REVIEW publication would be, in my opinion, a desirable format for such a proposed work.

If, after looking at my sesquiterpene treatment, you feel that this is a good idea, I would like to begin organizing the review fairly soon. Since this undertaking may require some grant support, I am willing to begin seeking funding through the preparation of grant proposals. If there are any appropriate European granting agencies, let me know and I will contact them.

I hope that co-authorship of this proposed review of Asteraceae terpenes appeals to you. In my opinion, it will be a very significant

The New York Botanical Garden

Dr. Ferdinand Bohlmann

-2-

September 1, 1982

contribution. Let me know if you would like to contribute through co-authorship to such a review.

Sincerely yours,

Frederick C. Seaman

FREDERICK C. SEAMAN
Director
Harding Laboratories

P. S. Dr. V. Funk of the Smithsonian Institution and I have just completed an article for TAXON which is a discussion of a biogenetically based cladistic analysis of sesquiterpene characters in *Iva* and other genera. The Seaman & Funk article will appear in February, but if you would like to see it sooner I can send you a copy of the manuscript.

F. C. S.

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The New York Botanical Garden

Bronx, New York 10458

(212) 220-8280
8661

September 1, 1982

Dr. Ferdinand Bohlmann
Institut für Organische Chemie
Friedrich-Schiller-Universität Berlin
Postfach 10 15 50 1335
D-1000 Berlin 12, West Germany

Dear Dr. Bohlmann,

I am sending under separate cover a copy of my recently published treatment of "Sesquiterpene Lactones as Taxonomic Characters in the Asteraceae". This 474 page treatment of sesquiterpene lactone distribution, and to a lesser extent furanosesquiterpene distribution, is an attempt to provide both a detailed reference and a discussion of the current methods used in applying terpenes as taxonomic characters. I hope that you find it useful in your work.

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Dr. Ferdinand Bohlmann

-2-

September 1, 1982

contribution. Let me know if you would like to contribute through co-authorship to such a review.

Sincerely yours,

Frederick C. Seaman

FREDERICK C. SEAMAN
Director
Harding Laboratories

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F. C. S.

357-2545

September 7, 1982

Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut
der Technischen
Universität Berlin
1 Berlin 12, Strasse des 17,
Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your recent letter. Your question about Werneria is interesting.

It is possible that there is a mistake regarding the collecting of this material but I doubt it. In any event, do you have any plant parts remaining from this sample. If you do, would you please send them to me so that we can compare them. There is also another way to check the result, since it is ~~66~~ such potential importance. Do you think if we send you a small sample from a herbarium specimen that the chemistry is concentrated enough to make a comparison.

We would appreciate seeing which chemicals you found in the analysis. Are they polycetylenes or sesquiterpenes?

Incidentally, have you seen proof on the Pseudobrickellia paper (Terpene series part 461)? The proper name of the plant is Pseudobrickellia brasiliensis (Spreng.) K&R. In doing the final taxonomic studies, Pseudobrickellia and Goyazianthus prove to be each other's closest relatives. We notice the chemistry is not so close

One of the short reports "Ein neues toxisches Derivat aus Austrobrickellia patens" is not in any of our publication lists. Can you tell us the publication data?

Kind regards,

Robert M. King
Department of Botany

RMK:cap

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
National Museum of
Natural History
Smithsonian Institution
Washington, D. C. 20560

FACHBEREICH 5
SYNTHETISCHE
UND
ANALYTISCHE
CHEMIE

Institut für
Organische
Chemie

Direktor: Professor
Dr. F. Bohlmann

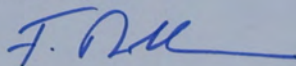
☎ (030) 314- 2252

Datum 13.9.1982

Dear Dr. King,

enclosed a copy of a letter from Dr. Seaman and my answer. I would like to know what you are thinking about this proposal. Of course we could do such a summary only with you and Dr. Robinson but perhaps it would be not bad to extend the capacity. Please let me know honestly what you are thinking about this and whether a cooperation with the New York Botanical Garden is desirable or not. Surely the review of Dr. Seaman is not o.k. in all parts, especially as he has taken only the lactones as markers. But otherwise he has worked hard. As you can see from my answer still nothing is decided.

Kind regards



(F. Bohlmann)

Encl.



TU Berlin - VOC - Seib, C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. F. C. Seaman
The New York Botanical Garden
Bronx, New York 10458

FACHBEREICH 5
SYNTHETISCHE
UND
ANALYTISCHE
CHEMIE

Institut für
Organische
Chemie

Direktor: Professor
Dr. F. Böhlmann

M 430/314. 2252

Datum: 13. 8. 1982

13. 9. 1982

Dear Dr. Seaman,

Thanks for your letter and the copy of your review on sesquiterpene lactones, which surely will be very useful. I think, a broader study should include all constituents and require the cooperation of specialists in taxonomy like Dr. King and Dr. Robinson. As you surely know I have worked together with them for the last years. As such a study would be an enormous effort, it may be very interesting to start this work with still more authors.

Of course we have a lot of unpublished data. All together we have the data on more than 4000 species. Surely the taxonomy still is a problem and before starting the question of separation into families, tribes and subtribes should be discussed. I would recommend to cooperate with Dr. King and Dr. Robinson. I therefore shall send them a copy of this letter.

Another problem is, if you would like to start as soon as possible, how to handle all the new results which will surely come in the next years. The amount of material already now available will be roughly four times more as that you have in your review. This raises the question whether it is possible to write down the material in a similar way or not. Yet there are a lot of open questions.

Kind regards

F. Böhlmann
(F. Böhlmann)



TU Berlin - VDC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. F. C. Seaman
The New York Botanical Garden
Bronx, New York 10458

FACHBEREICH
SYNTHETISCHE
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ANALYTISCHE
CHEMIE

Institut für
Organische
Chemie

Direktor: Professor
Dr. F. Böhlmann

4039/314- 2752

Datum: 13. 8. 1982

Dear Dr. Seaman,

Thanks for your letter and the copy of your review on sesquiterpene lactones, which surely will be very useful. I think, a broader study should include all constituents and require the cooperation of specialists in taxonomy like Dr. King and Dr. Robinson. As you surely know I have worked together with them for the last years. As such a study would be an enormous effort, it may be very interesting to start this work with still more authors.

Of course we have a lot of unpublished data. All together we have the data on more than 600 species. Surely the taxonomy still is a problem and before starting the question of separation into families, tribes and subtribes should be discussed. I would recommend to cooperate with Dr. King and Dr. Robinson. I therefore shall send them a copy of this letter.

Another problem is, if you would like to start as soon as possible, how to collect the new results which will surely come in the next years. The amount of material already now available will be roughly four times more as that you have in your review. This raises the question whether it is possible to write down the material in a similar way or not. You see there are a lot of open questions.

Kind regards

(F. Böhlmann)

Dr. Robert M. King
Department of Botany
National Museum of
Natural History
Smithsonian Institution
Washington, D. C. 20560

FACHBEREICH 5
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Institut für
Organische
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Direktor: Professor
Dr. F. Bohlmann

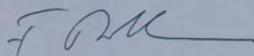
☎ (030) 314- 2252

Datum 17.9.1982

Dear Dr. King,

thanks for your letter. I have not got the proofs of part 461. We therefore still can correct the name. Indeed the chemistry of Pseudebrickellia is not very helpful. If you could send us about 2 - 3 g of the voucher of Werneria stuebelii we should be able to confirm at least the main constituents. Enclosed a reprint on Austrobrickellia, the Werneria manuscript and some further ones. A new collection of the chemistry of Wunderlichia mirebifis (RMK 8819A) differs remarkable from the older one (RMK 8239). Is it possible that one of them is a subspecies? The chemistry of these two is related, surely both are Wunderlichia.

Kind regards



(F. Bohlmann)

Sept 23, 1982

Dear Dr Bohlmann

Thanks for your letter. I am
sorry to be so late in answering
it, but I just got out of
the hospital. Nothing too serious.

We will soon write you a
detailed letter regarding
Seaman.

Sincerely

RM King

Posted
Oct 12 AM

October 12, 1982

Prof. Dr. F. Bohlmann, Direktor
Organisch-Chemisches Institut der
Technischen
Universität Berlin
1 Berlin 12, Strasse des 17. Juni Nr. 135
West Berlin, West Germany

Dear Dr. Bohlmann:

Thanks for your letters and the drafts of the papers. The suggested changes are enclosed for the papers.

The names of the plants that you sent are as follows: the Chromolaena is correct. as Herbaceous isidraenneuifolia MC. & R. The Baccharis is dracunculifolia DC.

In regard to the Werneria paper, the chemistry you report would not be a reason to doubt the systematic position of the plant in the Senecioneae. Obviously more Werneria should be obtained on the next trip.

The two specimens of Wunderlichia in the herbarium show no evident difference. It seems doubtful that any taxonomic distinction will ever be recognized.

With regard to a project with Dr. Seaman at the New York Botanical Garden, there is much to consider. Your letter arrived about the same time we saw a copy of his paper. We are not sure from the sample what Dr. Seaman's contribution would be. It seems that in his present paper he did the kind of work that you and your staff do very well by themselves. When Seaman did go into the taxonomy, he made mistakes. He obviously has great energy, and has worked hard to bring together so much data. It is unfortunate that he did not make the comparatively minor effort to ask us to check some of his information and conclusions. The Isocarpha conclusion ignored much evidence on the basis of a very limited observation, and even that proved erroneous as the Disynaphia data was included in the table. The Glechoma hederacea (Liliatae) inclusion was particularly bad. Dr. Seaman has not contacted us of the subject of his letter. We suspect he has spent too much time at Texas and New York with people that our work has tended to discredit. It is unfortunate, because Seaman very much needs what the three of us can do for him.

Regarding the summary work that we had already planned, the schedule Seaman has suggested might be reasonable for us. 1987 would allow for some additional collecting of samples for your study, thus assuring a representative treatment. There are still areas rich in Asteraceae that should yield much valuable information. A schedule might be as follows: Peru, Jan. 1983; Chile, 1984; Mexico, 1985; Australia, 1986. Of course, there are many other places, but with both time and money restrictions, These should be sufficient.

We have already tried to get some firmer ideas on the book we had in mind. We will have time to start this coming year with the Eupatorieae treatment done. Seaman's effort is useful in showing some things to avoid. The evolutionary conclusions in our effort should depend on all available evidence, and there should be some form of index by which a reader can discover the distributions of important chemicals in the family. There should be some introductory guidelines for the use of chemical characters in chemotaxonomy. All types of chemicals should be mentioned when they are available, as was done in the Heliantheae treatment. That treatment, however, was simply a restatement of prior data, the minimum needed for that revision. Still, your comments on it would be useful to help our own thinking toward the ultimate work.

What is ultimately done, as a minimum, should include all the major chemotaxonomic victories in the Asteraceae, such as the major sesquiterpene lactone correlations, the acyclic sesquiterpenes as in the Phytologia paper, the polyacetylene differences between the Anthemideae and most other tribes, and the new group of sesquiterpenes in the Mutisieae. If we just get all of these together with what is now known about the classification from other sources, we should be well along in our effort.

Sincerely,

R. M. King and H. Robinson
Department of Botany

TU Berlin · IOC · Sekr. C 3 · Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R. M. King
National Museum of
Natural History
Dept. of Botany
Stop No. 166
Smithsonian Institution
Washington, D. C. 20560
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FACHBEREICH 5
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Dr. F. Bohlmann

☐ (030) 314-2252

Datum 20 Oct 1982

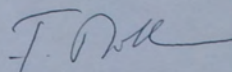
Dear Dr. King,

Thanks for your letters. I am glad that your stay in a hospital had no severe reasons. Thanks also for the corrections and comments to some of the papers. I have the feeling that you do not see any advantage to cooperate with Dr. Seaman. I really do not know him and even do not know whether he is a botanist or chemist. Surely he is much influenced by Turners ideas. It only would be possible to cooperate with him, if he would agree completely with your opinions on taxonomy. I have got so far no answer from him and may be the problems has been solved already. Surely we do not need him.

Concerning your future collection plans I of course agree with you. Surely we will get a lot of further data when we are going on in the investigation of new Compositae and I surely shall continue these investigations for the last six years of my academic life. Perhaps we should start with a summary only then (1988). The question would be, is it possible to put together the whole chemistry and taxonomy? Surely it would be necessary to deal with evolutionary conclusions and with the problem of the separation into two (sub) families. The last version of Dr. C. Jeffrey agrees with that of Robinson (see enclosed). May be

the Ursinieae (II) and the Echinopsinae (I) could be added. Of course there are many details which should be discussed when we are really starting with such a summary.

Kind regards

A handwritten signature in dark ink, appearing to be 'J. D. M.' followed by a long horizontal flourish.

I. Subfamily Lactucoideae

Lactuceae

Liabeae

Mutisieae

(Tarchionantheae)

Vernonieae

Cardueae

Arctotideae

II. Subfamily Asteroideae

Anthemideae

Astereae

Calendulaceae

Inuleae

Heliantheae

Senecioneae

357-2546

Nov 1, 1982

Dear Dr Bohlmann

Thanks for your letter and the new
typescripts. I agree that the problem
of Dr Beaman is solved. We really
don't need him. Your time schedule is
very reasonable. I believe that we
should try to put together a summary
of all the Chemistry and Taxonomy
unders separate cover.

You two packages of plant material. The
names are with the bags. Please acknowledge
Dr EE. Hutton of Elkins, West Virginia

I am planning a trip to Peru in
January of 1983. Would you please
make arrangements to send me the money.
I expect to go back in the hospital
for a knee operation but expect to
be ready by January

Sincerely,
S. S. S.

November 8, 1982

Dear Dr. Bohlmann:

In writing up the subtribe Hebecliniinae of the Eupatorieae, we note that not a single genus has had its chemistry looked at. Is this correct? I believe that I sent you material of the genus, Hebeclinium. If not, I'll try to get some in Peru. Incidentally the genus Bartlettina is also in the subtribe.

Sincerely yours,

Robert M. King
Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R.M. King
National Museum of
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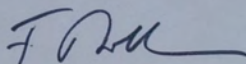
Datum 9.11.1982

Dear Dr. King,

thanks for the *Fleischmannia* species. I hope we'll get some
interesting results.

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Kind regards

A handwritten signature in black ink, appearing to be 'F Bohlmann', written in a cursive, flowing style.

(F. Bohlmann)

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R.M. King
National Museum of
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Datum 11.11.1982

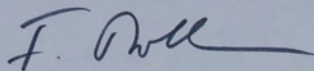
Dear Dr. King,

thanks for your letter. I have already written for the money
for your trip to Peru and I hope I can send it soon.

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Thanks also for the plant material we got today (Dr. E.E. Hutton
of Elkins). Soon you will get some papers with new results.

Kind regards

A handwritten signature in black ink, appearing to read 'F. Bohlmann', with a long, sweeping horizontal stroke at the end.

(F. Bohlmann)

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
Department of Botany
National Museum of
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Smithsonian Institution
Washington, D.C. 20560

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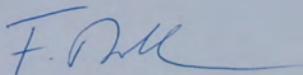
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Datum 18.11.1982

Dear Dr. King,

thanks for your letter. Enclosed some reprints on Hebecliniinae. Bartlettina⁺ and Decachaeta^{*}) chemistry is not relevant. Compound I present in Peteravenia and Hebeclinium surely is characteristic for the whole tribe. So far isolated from Brickellia, Radlkofertoma, Ageritina (a few), Ageratum (a few), Heterocondylus, Eupatoriadelphus, Bishovia, Austroaupatorium, Acritopappus, Stomanthes, Planaltoa. Diterpene II from Hebeclinium is an unique seco-diterpene but related to types also common in other genera of the tribe. Surely more investigation are necessary to get a clearer picture.

Kind regards



(F. Bohlmann)

— Could you please confirme the name of the Ambrosia on Paraguaya?

Dr. Frederick C. Seaman
New York Botanical
Garden
Bronx,
New York 10458

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CHEMIE

Institut für
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Chemie

Direktor: Professor
Dr. F. Bohlmann

☎ (030) 314- 2252

Datum 22.11.1982

Dear Dr. ^aSeaman,

thanks for your letter and the proof of the cladistic analysis of sesquiterpene lactone data. Of course it would be interesting to treat all data on Compositae in a similar way. However, I am still not sure, how this should be done. It seems to me impossible to do this in the same extent for the whole family as surely it would be necessary to include all data, not only those on terpenoids. Surely you are right that it would be a summary on the chemistry, but the botanical skeleton, the placement of genera in tribes and subtribes, should be clear. This only could be done if the specialists in the taxonomy would do this as there are still different options. The chemistry then could be discussed in connection with the taxonomic problems.

Kind regards

(F. Bohlmann)

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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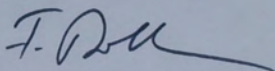
☎ (030) 314- 2252

Datum 22.11.1982

Dear Dr. King,

enclosed a copy of a letter from Dr. Seaman and a proof of
a further paper. As you see I have not accepted his ideas.
Enclosed again a species from Paraguay. Is it *chromolaena*
ivaefolia?

Kind regards



(F. Bohlmann)

Dr. Frederick C. Seaman
New York Botanical
Garden
Bronx,
New York 10458

2252

22.11.1982

Dear Dr. Seaman,

thanks for your letter and the proof of the cladistic analysis of sesquiterpene lactone data. Of course it would be interesting to treat all data on Compositae in a similar way. However, I am still not sure, how this should be done. It seems to me impossible to do this in the same extent for the whole family as surely it would be necessary to include all data, not only those on terpenoids. Surely you are right that it would be a summary on the chemistry, but the botanical skeleton, the placement of genera in tribes and subtribes, should be clear. This only could be done if the specialists in the taxonomy would do this as there are still different opinions. The chemistry then could be discussed in connection with the taxonomic problems.

Kind regards

(F. Bohlmann)

Prof. T. Swain
Boston University
Biological Science Center
2 Cummingtton St.
Boston, MA 02215
U. S. A.

2252

3 Nov 1982

Dear Professor Swain,

I have got your letter and all the manuscripts. As you may imagine it was somewhat surprising for me as we have submitted about 400 papers to Phytochemistry in this style.

As you surely know we are working on the chemotaxonomy of the Compositae mainly together with Dr. King and Dr. Robinson from the Smithsonian Institution. We have decided to do this on a broad scale, meaning we are interested to get the chemistry of all species we can get. This of course means that we have to do this on a small scale of plant material. Therefore we often get only minute amounts of new compounds. Very often we therefore can not get crystals which really is a problem if you have ~ 1 mg even if the material is completely pure what easily can be seen from a 400 MHz ^1H NMR. Of course we can add all details of isolation, separation and identification. But we are not able to get crystals in all cases and of course we can not give boiling points if we have only 2 mg (see part 481). You should tell honestly whether Phytochemistry will except this kind of work or not. When we have written formulae of known compounds this was done as this sometimes cost much less space, especially if several derivatives are present which which would need several lines of long names, both in the theoretical as well as in the experimental part.

As an example I have added further details of the separation in the paper "Prenylated p-Coumarates from *Werneria stuebelii*". Please let me know whether you would except a paper in this manner.

Kind regards

PHYTOCHEMISTRY

An International Journal of Plant Biochemistry

Executive Editors

Prof. T. Swain,
Boston University,
Biological Science Center,
2 Cumming Street,
Boston, Mass. 02215,
U.S.A.

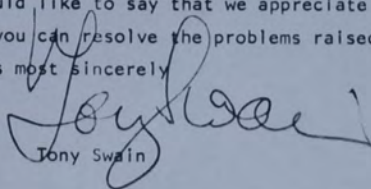
Dr. J. B. Harborne,
Department of Botany,
The University,
Whiteknights,
Reading RG6 2AS.
England.

20th Oct 1982

Dear Professor Bohlmann

I return herewith the several papers you have recently sent me because the Referees and I agree that they do not contain sufficient information to allow any competent operator to repeat them as required by our Instructions to Authors sanctioned by the Editorial Board of the Journal. The main problems are the lack of experimental detail as to how the compounds you and your coworkers claim to have obtained were separated. It is no use stating that the materials were obtained by 'CC' on Silica gel. The solvents etc. must be given. Indeed in many cases the Referees and myself doubt whether the compounds you claim could have been separated on the columns used. Secondly, it is impossible for anyone to repeat your work (a requisite of proper scientific endeavour) if the majority of your compounds are described as 'colourless gums' without any reference to their chromatographic or other properties which would allow their isolation. This makes your NMR and MS results of doubtful value also since some signals may be due to impurities which are obviously present if the compounds cannot be crystallised. I look forward to receiving your amended papers including mp's or other parameters of purity in due course. You may also take note that there is no need to reproduce the structures of known compounds unless this is essential and you should give in abbreviated form the criteria on which you based your identification of these substances and their concentrations. A mere statement is not enough. You may like to consider preparing a general review/ analytical paper to which you could refer in future publications. Finally I would like to say that we appreciate your work in phytochemistry and hope that you can resolve the problems raised.

Yours most sincerely


Tony Swain

Prof. T. Swain
Boston University
Biological Science Center
2 Cunningham St.
Boston, MA 02215
U.S.A.

2252

10 Nov 1982

Dear Professor Swain,

Enclosed I send you a paper "Heliangolides, Trachytobane and Villanovane Derivatives from *Vigulera* Species" for Phytochemistry where I have introduced the general method of isolation, separation and identification of compounds. I hope you will find this sufficient for refering in future papers. Again the small amounts of the sesquiterpene lactones did not allow to get crystals. Please let me know whether this kind of paper will be acceptable.

With kind regards

Encl.

Nov 29, 1982

Dear Dr. Bollmann

Thanks for your several letters. I am finally out of the hospital. Things were not too bad.

The specimens from Paraguay are

Ambrosia tenuifolia Spreng.

Chromolaena densiflora (Morong.) K. R.

Can you tell me what ever happened to the paper on New Sesquiterpene and Diterpene

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from St. Louis? Our library copy of *Phytochemistry* was imperfect. Do you have a reprint to send? What is the citation?

The paper by Seaman & Funk looks interesting. Did you intend to include a copy of Seaman's letter to you?

Sincerely
Robert M. King

Dr. R. M. King
National Museum of
Natural History
Dept. of Botany
Stop No 166
Smithsonian Institution
Washington, D. C. 20560
U. S. A.

FACHBEREICH 5
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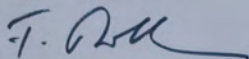
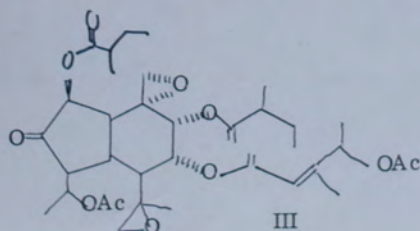
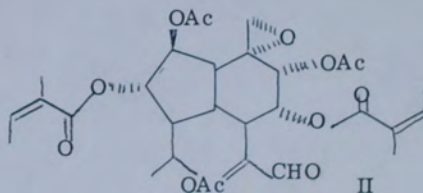
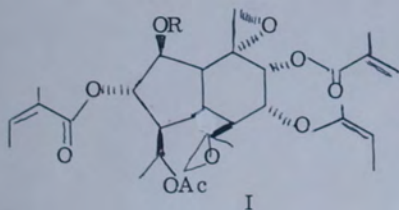
Datum 30 Nov 1982

Dear Doctor King,

We have just studied the constituents of Arnoglossum atriplicifolium. It contains sesquiterpenes of type I and II closely related to those of Rugelia nudicaulis (III), but related compounds we have isolated from a few Senecio species too. Do you know whether Rugelia and Arnoglossum are closely related?

I hope you have got the money for Peru. I have ordered it last week.

With kind regards

Dec. 6, 1982

Dear Dr. Bohlmann

Just a short note to thank you
for your letter. Yes, Rugelies and
Arnoglossum are closely related
as indicated in the enclosed paper. The
name Arnoglossum is older than Moradoneis.

The check for Peru did arrive
and many thanks. I expect to
spend January in Peru.

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Sincerely yours,
Robert M. King

Dr. R. M. King
National Museum of
Natural History
Dept. of Botany
Stop No. 166
Smithsonian Institution
Washington, D. C. 20560
U. S. A.

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Datum 7 Dec 1982

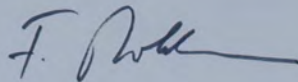
Dear Dr. King,

Thanks for your letter and the names of the Paraguay samples. Enclosed the desired reprint and a copy of my answer to Seaman.

We have troubles with Phytochemistry since we were asked to send the manuscripts no longer to Prof. Harborne but to Prof. Swain, Biological Center, Boston University (since September 1982). After two months he send back about 20 papers mainly with the comment that we should report only crystalline compounds. This is of course not possible as there are many not crystallizing compounds and in other cases not enough material is available. Five weeks ago I send him a changed paper with additional experimental details and I have discussed the problems in a letter (see copy), but so far I get no answer. Perhaps you could phone him to find out, if he accept papers of the changed type which I have send him. Otherwise we have to publish in an other journal as I think, we should continue to work on a broad scale and not on a few species with much more material. Of course we can write a more detailed isolation procedure but it is impossible always to have crystals and boiling points with minute amounts of material.

With kind regards

Encl.



December 15, 1982

Dear Dr. Bohlenstein

Thanks for your letter and the list of publications. As usual the list will be very useful.

Both Dr. Robinson and I were very distressed to learn of the problem with Prof. Seaman. I simply do not understand why this should be

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I telephoned him as you suggested and his reply was that the papers were still out to referees. Hopefully there are other journals if the problem continues with *Phytochemistry*.

With respect to Seaman, I see no need for him and besides I question his knowledge of systematics.

Sincerely
Robert M. King

Dr. R. M. King
National Museum of
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Washington D. C. 20560
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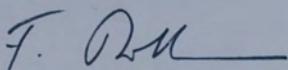
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Datum 17th Dec 1982

Dear Dr. King,

Thanks for your letter and the reprint concerning Arnoglossum.
Enclosed again three vouchers from Paraguay. Could you please check
the names? I hope you will have a successful trip to Peru.

Kind regards and
best wishes for a Happy Christmas and for 1983



PS: We still have not heard anything from Swain.

December 23, 1982

Dear Dr. Bollmann,

Just a short note to ask you
to send me a reprint of your
paper entitled.

Über das erste Lesquaterpennidion
mit einer Allengruppe aus Vernon's
Coloboceras which appeared in

Leibys Ann Chem 1950, 1904-1906

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I leave for Peru on January
2, 1983. I hope you have a
Merry Christmas and a Happy
New Year.

Sincerely
Robert M. Thuy

December 30, 1982

Dear Dr. Bohlmann,

Thanks for your letter and the
three specimens. They are as
follows:

Mogounia pulchra Cabrera

Acanthospermum australe (Hoeft.) O. Kuntze

Hypochaeris brasiliensis (Less.) Griseb.

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I hope, by now, you have heard
from Swain.

Sincerely yours
Robert M. King

Dr. R. M. King
National Museum of
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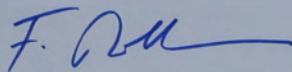
Datum 3 Jan 1983

Dear Dr. King,

Thanks for your letter. I still have not got an answer from Prof. Swain, but perhaps all is O. K. and he only does not answer letters and does not announce the receipt of papers. Therefore I think we have to wait for some more time, before we decide to go on another journal.

What about your trip to Peru? I hope it will be a successful collection.

With kind regards



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Professor
Dr. F. Bohlmann

Dr. F. Bohlmann

Datum 17th Jan 1983

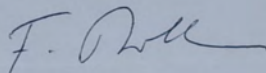
☎ (030) 314-48 80

Dear Dr. King,

Thanks for your letter and the identification of the species from Paraguay. I hope you had a good trip to Peru without any problems concerning bad infections.

We still are waiting for an answer of Swain. As long as we do not know whether they will accept future papers it is not worthwhile to send further manuscripts though the results are accumulating.

With kind regards



357-2546

February 7, 1983

Dear Dr. Bohlmann,

I just returned from what I consider a very good trip to Peru. Most of the material should reach you soon. I hope to send you the names soon.

Sorry to learn that you still have not heard about the manuscripts. I don't know what can be done. Perhaps you will have good news to tell me.

Sincerely yours,

Robert M. King

Department of Botany

March 7, 1983

Dear Dr. Bohlmann,

Thanks for your cable. Somehow
I believe that the plant material
for you was sent surface mail.
It was dry so it should still
be good when it arrives hopefully
in a week or two.

Have you been able to resolve
the problems with Botanical Documentation
Phytochemistry.

Sincerely yours
Robert M. King

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
Department of Botany
National Museum of
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Smithsonian Institution
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Dr. F. Bohlmann

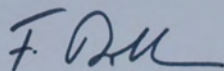
☎ (030) 314- 2252

Datum 8.3.1983

Dear Dr. King,

thanks for your letter from February 7th and the five parcels with plant material which we have received today in good condition. We still have not heard anything from Swain, but now I think all will go on as otherwise we would have got back the manuscripts. There are still two species which have no second name: Dimerostemma (RMK 8803) and Wedelia (RMK 8787). Both have interesting new compounds and we have prepared papers with these species as new ones. If this is not true we can correct in the proofs.

Kind regards



(F. Bohlmann)

Dr. R. M. King
National Museum of
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Direktor: Professor
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☎ (030) 314-2252

Datum 10th March 83

Dear Dr. King,

Thanks again for the plant material, which, I hope, will give a lot of interesting results. Enclosed a list of the voucher numbers and a few old ones where you could put in the names.

There is one species, Aspilia ovalifolia (RMK 8934) where the chemistry would agree much better with a member of Helianthinae (like Helianthus, Lagescea, Simsia or Viguiera). Is it possible that this species can be transferred to an other genus? All the others including those with no names (RMK 8451, 8584, 8594, 8677, 8682, 8761, 8801) show common chemistry related to Wedelia.

With kind regards

F. Bohlmann

Encl.

*voucher is Ecliptinae as stated.
What is chemistry involved.*

*Aurones and chalcones
or dehydrofalconones
would indeed be like Helianthinae
but other chemicals would not be
so indicative*

March 21, 1983

Dear Dr Bohlmann

Thanks for your letters and the typewritten
we have made some suggestions on the
copies enclosed.

Glad to learn that some of the
collections have arrived. I hope
by now that you have received
the rest.

Digitized by Hunt Institute for Botanical Documentation
I hope to send you the
names as soon as possible

Sincerely
Robert M. King

TU Berlin · IOC · Sekr. C 3 · Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R.M. King
National Museum of
Natural History
Dept. of Botany
Stop No. 166

Smithsonian Institution
Washington D.C. 20560
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Institut für
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Direktor: Professor
Dr. F. Bohlmann

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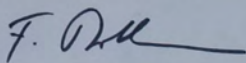
Datum 28.3.1983

Dear Dr. King,

thanks for your letter and all the plant material we got
now in good condition.

We have send you four vouchers. Could you control the
names? The sample of the Mantanoa species is of course
very bad. Also back a lot of vouchers from your Peru
collection which erroneously was send to us. As mentioned
before we still have not got any answer from Swain, but
as he has not send back the manuscripts I think he has
send them to referrees.

Kind regards



(F. Bohlmann)

April 4, 1983

Dear Dr. Bohlmann

Thank you very much for
returning the herbarium specimens to me
I thought that they were lost.
It seems that our shipping room
not only sent you material at
4th class surface but also the
wrong things

I hope by now that you
have received all the material
for chemical study. It should be
over 85 samples. I will be
able to send you the names
soon even though I do not
have a secretary anymore.

Sincerely
Robert M. Kuny

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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Datum 6.4.1983

Dear Dr. King,

thanks for a further parcel with plant material.

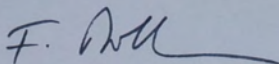
RMK 9104

9115

9126

9158

Kind regards



(F. Bohlmann)

April 12, 1983

Dear Dr. Bohlenman,

Thanks for your letters

Enclosed are the lists for Colorado and Peru. On papers based on material from Peru, would you please acknowledge the help of Dr. L. E. Bishop of Seattle Waik.

I hope that the problems with Swain have cleared up. I would suggest that you consider sending your short reports ~~on the following~~ ^{on the following} ~~on the following~~ ^{on the following} need to be prepared for camera copy. I'd be glad to help.

Sincerely

Robert M. King

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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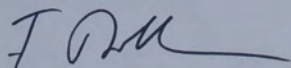
Datum 20 April 83

Dear Dr. King,

Thank you very much for the list of the Peru and Colorado Compositae. Surely it will give a lot of new interesting results. There are only four numbers (9104, 9240, 9280 and 9281) without names. Thanks also for the names of the Paraguay species.

As mentioned before we still have not heard anything from Swain, but he has also not send back any of the about fourty papers we send to him. So I think they may be out to referees or even in press. Of course we could publish some results in Phytologia, but surely no real structure elucidation work. A few papers we now have send to Liebigs Annalen Chem. where papers are handled very careful and quick.

With kind regards



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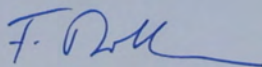
☎ (030) 314- 2252

Datum 31.5.1983

Dear Dr. King,

enclosed some new papers. We still have heard nothing from Swain though he must have received about 40 manuscripts. Perhaps you could phone him again to find out what has happened with all these papers. We just have finished the investigation of Calea Szyszylewiczii, where we got 30 new lactones. The type differs from the usual helangiolides from Calea, but the aromatic compounds are the typical Calea compounds.

Kind regards



(F. Bohlmann)

Dr. R. M. King
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☎ (030) 314-2252

Datum 7th June 1983

Dear Dr. King,

Just we have investigated Helianthus dowellianus which you have send us
(collected by Dr. Hutton of Elkins, West Virginia). As we had no author
we looked at Index Kewensis which indicated that it is identical with
H. occidentalis. As there are some new compounds it would be necessary
to have the correct name.

now variety of
occidentalis
placed as
such by
Torrey &
Gray

With kind regards

F. Bohlmann

June 20, 1983

Dear Dr. Bohlmann:

Thanks for your recent letter. The name of the plant that you mentioned should be *Helianthus occidentalis* var *dowellianus* Torrey & Gray.

Sometime ago you requested material of the genus, *Hymenopappus* so that you could compare its chemistry with some other genera that you were working on. I called a friend at the University of Texas to see if he could get it for us. I later learned that it was not in flower at that time. It should now be in flower so I called again. I was told that the chairman, of his department, Tom Mabry would not allow him to collect it. Mabry did not want you to have this material. Dr. Robinson and I believe that his feelings are also related to your problems in publishing in *Phytologia*. A few remarks made by Seaman to Robinso last summer, while not itself critical, did indicate an awareness of of one point later raised in the review. We suspect Mabry was his source.

The more we see, the more we suspect that your field has the same problems as systematic botany. I will continue to try to get the plant for you.

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Sincerely,

Robert M. King

Department of Botany

June 13, 1983

Dear Dr Bohlmann,

Thanks for your letter and the copies of the new manuscripts. I have included some suggestions for the papers.

I called Swain as you suggested. He was working on your papers that y very day. The problem is that there is a big backlog of papers for Phytochemistry. In your case an added problem is that there is really only one reviewer and is not very prompt. He said that he would be writing to you today as well.

It seems that a student is going to be working on the genus, Neomirandea as a project. I seem to recall naming a specimen of the genus for you. It would be nice if you could work up that material for publication.

Have you heard anything more from Seaman at New York?

Sincerely yours,

Robert M. King

Department of Botany

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Datum 23.6.1983

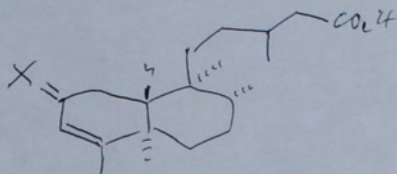
Dear Dr. King,

thanks for your letter and the news from Swain which in the meantime turns out to be bad ones. He rejected 18 papers and send back six for revisions and only six he has accepted. About further ~~20~~ papers he still has not written anything. I have the feeling that it is more or less hopeless to work with him. He only is interested in very simple compounds like flavones and I think he is not able to follow structure elucidation argument on more complicated compounds. For the papers which have to be revised he mainly asked for Rf values which may be of interest in flavone chemistry. All ~~these~~ things he asked are not common in other Phytochemistry papers. Therefore I think he does not like our papers, but I do not know. Any way it seems to be useless to try to follow all his stupid ideas.

We therefore have to publish elsewhere. In part I start to send manuscript to Liebigs Annalen as they are much more serious and also *more quick.*

I have not heard anything more from Dr. Seaman. Probably he is not interested to cooperate with you and with me. I think we do not need him for a future summary on the taxonomy and chemistry of the Compositae.

Concerning Neomirandea angularis we got only known clerodanes from it (1 and 2) which, however, may be useful to look for relationships. Similar diterpenes we got from Hartwrightia (Phytochemistry 20, 843, (1981), Fleischmannia (Phytochemistry 17, 2101, (1978) and Liatris (Phytochemistry 20, 1439 (1981)).



x = H₂ 1 (Phytochemistry 17, 2101)

x = O, 2 (An. Quim. 1978, 74, 476)
(from cistus)

Perhaps you could use these results in a paper.

Kind regards

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F. Bohlmann
(F. Bohlmann)

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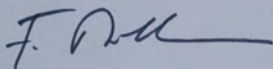
☎ (030) 314-2252

Datum 27th June 1983

Dear Dr. King,

Thanks for your letter and the Helianthus name. Perhaps you are right as Mabry surely is jealous. But he still writes to me and I am not sure whether he is really working against us. The interesting point is that it was Mabry who make the contact with you. Enclosed a new paper which I send to Liebigs Annalen der Chemie, and a revised one, which come back from Phytochem.

Kind regards



Encl.

July 1, 1983

Dear Dr. Bohlmann,

Thanks for your letters. Enclosed are some suggestions regarding the manuscripts. It will take some time to get the names of the species of Aspilia. We will try to be as prompt as possible.

A Victor Castro sent me some plants from Costa Rica and asked me to send you the names. They are

Senecio multivenius Benth. in Oerst.

Pseudogynoxys cummingii (Benth.) H. Robinson & Cuatr.

Calea prunifolia H. B. K.

Senecio megaphyllus Greenm.

Wedelia costaricensis (Benth.)

Senecio multivenius Benth in Oerst.

Elephantopus mollis H.B.K.

Archibaccharis irazuensis Blake

Verbesina tonduzii Greenm.

Tessaria integrifolia Ruiz & Pavon

Munnozia sagitata Benth.

Vernonia brachiata Benth. in Oerst.

A collection of mine made in Maryland is

King 7717 *Artemisia vulgaris* L.

Sincerely yours,

Robert M. King
Robert M. King
Department of Botany

July 1, 1983

Dear Dr. Bohlmann,

Thanks for your letter that was mostly about Swain. Needless to say I am very distressed about the problem. I agree with you that it will be necessary to begin to publish in other journals other than Phytochemistry.

I should mention that I believe the problems with Swain in publishing in Phytochemistry are caused in large part by the envy of Mabry and Seaman. They seem bothered by the fact that you publish so much. Seaman, incidently, is the former student of Mabry.

Sincerely yours,

Robert M. King

Department of Botany

July 5, 1983

Dear Dr. Bohmann,

Enclosed is a draft of a letter that I would request that you send to the people indicated. As the draft letter indicates Cerro de la Neblina is an extremely interesting area for Compositae. I would like very much to go there. Dr. Huber, a native of Austria, will be recommending to Dr. Bremer the people that go on the expedition. Please write the letter to Dr. Huber in German as that will be sure to impress him. The other letter to Dr. Bremer should be in English. Anyway that you change it to be more impressive will help. I am told that he is most impressed by titles.

Thanks in advance,

Sincerely,

B

Robert M. King

Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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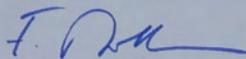
Datum 5.7.1983

Dear Dr. King,

enclosed a copy of a letter from Prof. Turner. I have written to him that we could do this special investigation on Hymenopappus as I think you agree with this single cooperation. It seems to be a very interesting story in connection with that what you heard from your friend at Austin.

But if you think we should not do the investigation please let me know, we still can stop it.

Kind regards



(F. Bohlmann)

THE UNIVERSITY OF TEXAS AT AUSTIN
DEPARTMENT OF BOTANY



29 June 1983

Dr. F. Bohlmann
Institut für Organische Chemie
1 Berlin 12,
Straße des 17. Juni 135
West Germany

Dear Dr. Bohlmann:

I have some small bulk samples of Hymenopappus which I would be glad to send you as part of a cooperative endeavor. I have in hand 2 species:

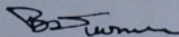
H. newberryi - collected in summer of 1982 - a rare but "primitive" species morphologically

H. tenuicollis - moderately advanced

If you are not too committed to the King & Robinson duo, I would like to serve as your systematic guru - largely because I monographed the genus for my Ph. D.

Let me know.

Warmest regards,


B. L. Turner

sp1

TU Berlin · IOC · Sekr. C 3 · Straße des 17. Juni 135, D-1000 Berlin 12

Prof. B.L. Turner
The University of Texas
at Austin
Department of Botany
Austin, Texas 78712-7640
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Dr. F. Bohlmann

☎ (030) 314- 2252

Datum 5.7.1983

Dear Professor Turner,

thanks for your letter. You can send me the material of
the Hymenopappus species for chemical investigations.

I hope the samples will not be too small as a detailed
analysis of both roots and aerial parts will be

necessary for comparison of the chemistry with related
genera.

Of course we are committed to Dr. King, but a cooperation
on this subject surely is of interest for all of us.

Kind regards also to Tom

(F. Bohlmann)

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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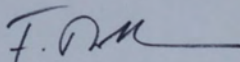
Datum 11.7.1983

Dear Dr. King,

thanks for your letter. I have written the desired letters
and I hope you can join this expedition.

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Kind regards



(F. Bohlmann)

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Datum 11.7.1983

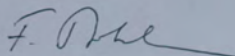
Dear Dr. King,

thanks for your two letters and the names of the Costa Rica plants. Professor Castro is cooperating with us and just now he stays again for three months in our laboratory.

As mentioned before we are now publishing results in different journals, Liebigs Annalen, Planta medica, Rev. Latinoamer. Química, Tetrahedron, perhaps Lloydia and if the results are mainly of interest from the taxonomical point of view you perhaps could publish in Phytochemistry too.

I now can be sure that the problems with Phytochemistry are arranged. I got papers as a Referee from the States and Mexico which were send to Harborne while at the same time I send a Short Report to Harborne which he directly send to Swain though I have asked him not to do this. Even Professor Herz still send his manuscripts to Harborne!

Kind regards



(F. Bohlmann)

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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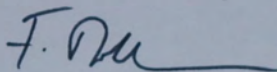
Datum 18.7.1983

Dear Dr. King,

thanks for the plant material (9309, 9310) which we got
in good condition.

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Kind regards

A handwritten signature in black ink, appearing to be 'F. Bohlmann', written in a cursive style.

(F. Bohlmann)

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☎ (030) 314- 2252

Datum 22.7.1983

Dear Dr. King,

we have studied the two samples of Helianthopsis (RMK 9141 and 9155). The chemistry is slightly different and the constituents are related to those from Viguiera and parts of Helianthus (see enclosed). I think it is a new genus? Probably it belongs to subtribe Helianthinae? Do you have names for these species?
Enclosed a few other results.

Kind regards

F. Bohlmann

(F. Bohlmann)

He will have to send us copies of all those not in phytochemistry

and Villanova

*We also have send the Tridagonia - paper
and that a Wunderlichia to Linde's botanical Chem.
If you like we can send you copies.*

*Tridagonia paper p.2. line 5 from bottom Barroso
Villanova paper p.2. line 12 not (neuen)*

July 25, 1983

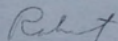
Dear Dr. Bohlmann,

Thanks for your letters. I am sorry to be so late in answering them but I have been on vacation.

I hope that you have received the plant material that I sent to you. By all means you should work with Turner on Hymenopappus. With Turner's name on the paper you should have no trouble in publishing the paper in Phytochemistry. I am sure that he is with the others in making trouble.

Thanks also for writing the letters regarding Neblina.

Sincerely,



Robert M. King

Department of Botany

July 28, 1983

Dear Dr. Bohlmann,
Thanks for your two letters and the manuscripts.

The names for the new species are as follows:

RMK 9141 Helianthopsis bishopii H. Robinson

RMK 9155 Helianthopsis utcubambensis H. Robinson

Some suggestions on the manuscripts that you sent. On the Trichogonia paper page 2 line 5 from bottom Barroso- On the Villanova paper page 2 line 12 omit neuen. *that was right*

Regarding papers that you publish in journals other than Phytochemistry, would you please send me a very clear and clean photocopy so that I can have it duplicated here. Thanks.

Regarding your request for names of the Aspilias. This is a very difficult group. It is going to take some time, even for the one number that you especially wanted.

I am very eager to see more results of analysis of the genus Neomirandea. Do you think that Professor Castro in your lab could obtain more species of the genus for you. There are many species in Costa Rica. I can send you data as to locality. In this genus I expect that it is necessary to have much larger samples as the chemical are probably in very low concentrations.

Regarding the Hymenopappus paper with Turner, it would be good if you sent me a copy of it before you sent it to the journal. Turner is often very wrong.

Sincerely,

Robert M. King

Department of Botany

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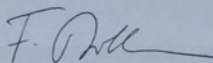
Datum 2nd Aug 83

Dear Dr. King,

Thanks for you letter and the new plant material (RMK 9311). So far I have not get the material from Turner.

In the meantime we have send several papers to Planta Medica, Liebigs Annalen and a few to Revista Latinoamer. Quim. I hope that the problems will be solved soon. We just have studied Monactis. The results showed nicely a close relationship of the chemistry to Kingianthus.

Kind regards



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Datum 2.8.1983

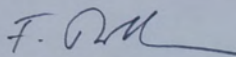
Dear Dr. King,

thanks for your letter and the corrections. What about the
copies? Are those you got not clear enough? We then have to
look for other copies.

I have asked Professor Castro for Neomirandea species.
If you send us the localities he will try to get material
this winter.

So far I got no material from Turner.

Kind regards

A handwritten signature in black ink, appearing to be 'F. Bohlmann', written in a cursive style.

(F. Bohlmann)

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☎ (030) 314- 2252

Datum 10.8.1983

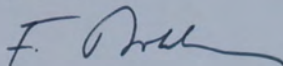
Dear Dr. King,

I just got a letter from Dr. Huber, Caracas, and he wrote that there are some problems concerning plant collections in Venezuela, but he think that he can help and furthermore he is also interested to collect material for us. He asks whether he should send the vouchers to you?

Concerning the expedition he wrote that you must be nominated by the Smithsonian Institution, which so far has not placed your name on the list of participants. Your institution therefore should nominate you or you should directly write to Dr. Brewer-Carias with a short program, curriculum vitae, six photos. So far I got no letter from him.

I hope you can manage this problem, if not, Dr. Huber would collect material for us during the expedition though he wrote to me that he knows that you have much more experience to do this.

Kind regards



(F. Bohlmann)

357-2546

August 16, 1983

Dear Dr. Bohlmann,

Thanks for your letter. Perhaps you will hear from Turner soon.
It would be nice if you can study *Hymenopappus*.

Enclosed is the list of *Neomirandea* species with localities. I hope
that Prof. Castro can get material of some of them.

The 3 samples that I sent you are as follows:

RMK 9309 *Gaillardia pulchella* Fong. NORTH CAROLINA

RMK 9310 *Helenium tenuifolium* Nutt. NORTH CAROLINA

RMK 9311 *Heterotheca latifolia* Buckley DELAWARE

Regarding copies of papers that we publish in journal other than
Phytochemistry, if you could xerox very clear copies, we can duplicate
them here.

Best regards,

Robert M. King

Department of Botany

All Costa Rica

Neomirandea arthodes Heredia Pro. vicinity Cerro Chompipe
Vera Blanca de Sarapiquí

Neomirandea araliaefolia Guanacaste: north of Tilaran, La Vejona
Puntarenas: 2 km East of Monteverde
Alajuela 8 km NE of Villa Quesada

Neomirandea biflora Cartago: slopes of Vulcan Irazu
Cartago: slopes of Vulcan Turrialba

Neomirandea burgerii Cerro de la Muerte

Neomirandea eximia San Jose: La Palma
San Jose: 4 km S of La Hondura

Neomirandea costaricensis San Jose: 17 km SE of Empalme
Heredia: along road to Alto Gallito

Neomirandea grosvenorii Cartago: slopes of Vulcan Irazu & Vulcan Turrialba

Neomirandea guevarae Cartago 27 km SE of Orosi

Neomirandea parasitica San Jose: La Palma
Cartago: 15 km S of Tapanti

August 22, 1983

Dear Dr. Bohlmann:

Thanks for your recent letter concerning the problems of collecting in Venezuela.

I think it would be very good if Dr. Huber is willing to collect material for us. Because of politics here at the Smithsonian, it will not be possible for me to be nominated. All of the spaces will go to people in birds, reptiles and mammals etc.

I think that it would be best for me to collect in southern Colombia in January. There are still many genera and species to get there.

Would you please ask Dr. Huber to send me the vouchers of his collections in Venezuela.

Kind regards,

Sincerely,

Robert M. King
Robert M. King

Department of Botany

Dr. R. M. King
National Museum of
Natural History
Dept. of Botany
Stop No 166
Smithsonian Institution
Washington DC 20560
U. S. A.

FACHBEREICH 5
SYNTHETISCHE
UND
ANALYTISCHE
CHEMIE

Institut für
Organische
Chemie

Direktor: Professor
Dr. F. Bohlmann

☎ (030) 314- 2252

Datum 23th Aug 1983

Dear Dr. King,

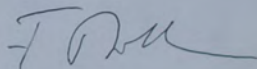
Thanks for your letter with the names of the samples you send us.
Today we got a further one (Erigeron).

Prof. Castro will try to get material of the Neomirandreas. I hope we
shall get interesting results. Turner has send the Hymenopappus. As
expected it has similar lactones as Villanova and Schkuhria.

In addition to the names of the species of the new genus Helianthopsis
(RMK 9131 and 9155) it would be nice to have the name of the Aspilina species
(RMK 8192) or can we perhaps say it is a new one? Furthermore the names
from the Peru collection for RMK 9104, 9240, 9280, 9281 are missing.

I hope the enclosed copies are clear enough.

Kind regards



Encl.

Dr. R. M. King
National Museum of
Natural History
Smithsonian Institution
Dept. of Botany
Stop No 166
Washington DC 20560
U. S. A.

FACHBEREICH 5
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Institut für
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Direktor: Professor
Dr. F. Bohlmann

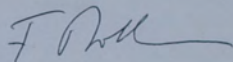
☎ (030) 314-2252

Datum 26th Aug 1983

Dear Dr. King,

Thanks for your letter. It is a pity that I could not do more for you concerning the Venezuela excursion. But perhaps Dr. Huber can at least *do* something ~~do~~. If you have special interesting species you could perhaps send a list. Dr. Huber has offered to send you vouchers. I shall write him again.

Kind regards



357-2546

September 2, 1983

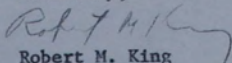
Dear Dr. Bohlmann,

Thanks for your letter and the typescripts. A spelling change should be made in the Jungia paper. The species name is seleriana.

On another matter the xeroxes that I requested should be of the printed published papers. We do not have the journal here in our library.

I inclose a letter that I received. I think that it is best for you to answer it. Thanks.

Sincerely,


Robert M. King
Department of Botany

September 19, 1983

Dear Dr. Bohlmann,

Thanks for your recent letter. It is good to learn that Dr. Huber will help us. The following is a list of genera that I would suggest that we ask him to try to get material for us.

Lycoseris
Jungia
Chquiragua
Stenopadus
Stomatochaeta
Chimantaea
Quelchia
Gogylolepis
Eurydochus
Duida
Glossarion
Neblina
Achnopogon

I am not sure of how many of these Dr. Huber will identify in the field for us. I would suggest that he collect any composite. Please have him send the vouchers to me. Thanks.

Sincerely yours,
Robert M. King
Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
Department of Botany
National Museum of History
Smithsonian Institution
Washington, D.C. 20560

FACHBEREICH 5
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Dr. F. Bohlmann

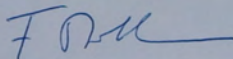
☎ (030) 314- 2252

Datum 26.9.1983

Dear Dr. King,

thanks for your letter with the list of Venezuela genera.
I have send the list to Dr. Huber and also mentioned that
he should collect all Compositae and send a voucher to you.
Enclosed some reprints.

Kind regards



(F. Bohlmann)

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
Department of Botany
National Museum of History
Smithsonian Institution
Washington, D.C. 20560

FACHBEREICH 5
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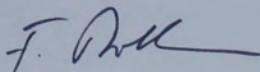
Datum 11.10.1983

Dear Dr. King,

as I have told you we got material of Hymenopappus from Turner. He now is in Mexico, near Veracruz, and he likes to send further material for chemical analysis. I therefore would like to hear your opinion whether we should do some cooperation with him or not. Please let me know honestly what you think.

In the meantime we have finished the Gaillardia investigation. Especially the sample from the Botanical Garden at Berlin gave an unusual large number of new lactones. Have you looked at the vouchers? Do you think that we had really G. aristata or is it perhaps a hybrid?

Kind regards



(F. Bohlmann)

Dr. Robert M. King
Department of Botany
National Museum of History
Smithsonian Institution
Washington, D. C. 20560

FACHBEREICH 5
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Institut für
Organische
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Direktor: Professor
Dr. F. Bohlmann

☎ (030) 314- 2252

Datum 19.10.1983

Dear Dr. King,

enclosed I send you again a voucher of an *Eupatorium* species which surely now has a new name. Could you identify it.

Digitized by Hunt Institute for Botanical Documentation

Kind regards

F Bohlmann

(F. Bohlmann)

Enclosed a second voucher. This
faillardii is from the Botanical garden
in Berlin. Is it *f. aristata*? It differs
from yours in the density partly.

October 24, 1983

Dear Dr. Bohlmann,
Thanks for your letter.

In regard to the Turner situation, I suggest that you continue to work on the material that he sends you. There are many genera in Mexico and I can certainly not get them all. It would be good to write up article with him. I certainly do not want him included in the summary work. Also, it would be good if I could see the ms before you send them out. I dont trust his taxonomy.

The specimen from Paraguay is *Chromolaena laevigata* (Lam.) K & R

The other specimen is *Gaillardia pulchella* Foug. It is the same species that I collected for you.

Please excuse the delay in answering your letter. I was on vacation.

Sincerely,

Robert M. King
Department of Botany

Dr. R. M. King
Dept. of Botany
National Museum of
Natural History
Smithsonian Institution
Washington D. C. 20560
U. S. A.

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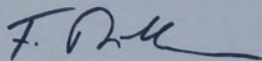
Datum 25th Oct, 1983

Dear Dr. King,

Enclosed again some vouchers from plant material from Paraguay. I hope it will not cost too much time if you have a look whether all is correctly. Yesterday Professor Herz was here for a lecture. He surely is not the reason of the Phytochemistry problems. I think it is really only Swain. He again send back some of our old manuscripts where he like to have more experimental details which are not given by any other author in the journal. I think he only is looking for a way to stop or to reduce the numbers of our papers.

We now have send some papers to J. Natural Prod. and to Liebigs Annalen.

Kind regards



Encl.

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

EDIF. ICAUCA - MEZZ. 2
PELOTA A PUNCERES
AVDA. URDANETA

TELEFONO 561.35 00
APARTADO No. 1998
CARACAS 1010-A - VENEZUELA

Caracas, 25 de Octubre de 1.983

Dr. F. BOHLMANN
Director del INSTITUT FÜR
ORGANISCHE CHEMIE, FACHBEREICH
5 SYNTHETISCHE CHEMIE
Technische Universität Berlin
T.U. Berlin, 10 C, Sekr. C 3,
Strabe des 17 Juni 135, D-1000
Berlin 12, Alemania Occidental.-

Apreciado Profesor Bohlmann,

Nos resulta grato acusar recibo de su atenta comunicación del pasado mes de Julio, la cual hemos demorado en responder debido a nuestro deseo de proporcionar la mayor información posible en cuanto a los participantes, situación del Campamento Base y los cambios propios de un Proyecto de esta naturaleza.

En cuanto a los participantes de la Expedición, la anexamos un cuadro descriptivo de los científicos que han confirmado su asistencia, de acuerdo con las fechas iniciales de la Expedición, el cual le será de utilidad en la decisión final de estadía, de acuerdo a la afinidad con sus colegas; y como referencia adicional, también le incluimos un cuadro descriptivo de todos los científicos solicitantes hasta el momento, con sus respectivas especialidades e Instituciones.

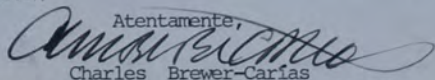
La construcción del Campamento Base está en marcha y el Gobierno venezolano ha cumplido con los fondos previstos, lo cual nos permite terminar sus instalaciones y áreas de apoyo y servicios para final de este año, garantizando la recepción de los científicos visitantes a partir de Enero de 1984.

Del trabajo conjunto de los científicos venezolanos y autoridades oficiales, con amplia experiencia en trabajos de campo en combinación con investigadores internacionales, ha surgido una serie de instrumentos de apoyo, entre los cuales figuran las NORMAS PARA COLECCIONES BOTANICAS Y ZOOLOGICAS, de las cuales anexamos un par; de igual manera incluimos un juego, por cada investigador, del CONVENIO SOBRE LAS PUBLICACIONES, y deseamos que los originales de ambos nos sean devueltos debidamente firmados, y si lo desean con sus comentarios en hoja separada.

En cuanto a su expediente, lo hemos revisado, notando que falta el envío de la siguiente información de los científicos de la T.U.: Curriculum vitae, Itinerario, Fecha de estadía, fotocopias de documentos personales, fotografías (6), otras necesidades de personal, breve descripción de los equipos, peso-volumen del equipo de apoyo, Plan de trabajo. Para facilitar la organización de la misma, anexamos copia de los Requisitos para participar en la Expedición.

A la espera de sus gratas noticias, nos despedimos, recordándoles que les mantendremos debidamente informados de la evolución del Campamento Base y de todos los detalles de interés.

Atentamente,



Charles Brewer-Carías
Coordinador Ejecutivo de la Expedición
al Cerro de La Neblina

Anexos.

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

EDIF. ICAUCA - MEZZ. 2
PELOTA A PUNCERES
AVDA. URDANETA

TELEFONO: 561.35.00
APARTADO No. 1998
CARACAS 1010-A - VENEZUELA

ACTA CONVENIO A SUSCRIBIR ENTRE LOS INVESTIGADORES Y

LA FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

NORMAS PARA EXPLORACIONES Y COLECCIONES EN GENERAL

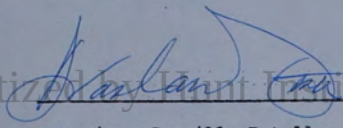
1. Quedará en Venezuela un juego (set) completo de todas las colecciones, incluyendo las muestras únicas.
2. El primer juego (set) de muestras botánicas así como las muestras únicas se depositarán en el Herbario Nacional de Venezuela (VEN) y el resto de los duplicados será distribuido por VEN, de común acuerdo con la Fundación y el resto de las Instituciones participantes.
3. En el caso de muestras zoológicas el Museo de Biología de la Universidad Central de Venezuela y el Servicio Nacional de Fauna Silvestre, de cidirán sobre el destino y distribución de las muestras, garantizando que el primer juego (set) y el 50% de los especímenes quede en Venezue la.
4. Los holotipos que resulten de descripciones de especies nuevas debe rán regresar a las Instituciones coordinadoras antes mencionadas (Herbario Nacional de Venezuela, Servicio Nacional de Fauna Silvestre y Museo de Biología, U.C.V.) y en forma de intercambio por el Holotipo le será enviado un isotipo.
5. Las autoridades en Venezuela para coodinar la distribución de muestras de la Expedición son: La Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales, representada por: Charles Brewer-Carías, como Coordinador General, habiéndose designado como coordinadores de área a:
 - Botánica: Julián Steyermark
 - Zoología: Antonio Machado
 - Ecología: Ernesto Medina.

Los mismos bajo la supervisión de un funcionario del Instituto Nacional de Parques (INPARQUES), en lo que se refiere a la protección del Parque.

6. La publicación de cualquier libro donde se describan los resultados preliminares de la Expedición, se presenten fotos, mapas, etc., y en general resuma las actividades realizadas, deberá publicarse en idioma castellano, pudiendo posteriormente ser publicados en cualquier otro idioma.
7. Los trabajos científicos que realicen los investigadores podrán publicarse en el idioma que el autor considere conveniente, estando el investigador obligado a enviar una copia y un resumen en castellano de su trabajo, quedando el Instituto Nacional de Parques autorizado para utilizar los resultados de esa Investigación a los usos que este organismo estime conveniente.

Por la FUNDACION

Por la Institución investigadora


Francisco Carrillo Batalla
Presidente

NOTA: Favor devolver debidamente firmado el original de este Convenio, por una autoridad superior dentro de la Institución.

De considerar necesarios, háganos llegar sus comentarios fundamentados en su experiencia, los cuales nos puedan ser de utilidad para la consideración de casos particulares.

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

EDIF. ICAUCA - MEZZ. 2
PELOTA A PUNCERES
AVDA. URDANETA

TELEFONO: 561.35.00
APARTADO No. 1998
CARACAS 1010-A - VENEZUELA

ACTA CONVENIO A SUSCRIBIR ENTRE LOS INVESTIGADORES Y

LA FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS

Y NATURALES

NORMAS PARA EXPLORACIONES Y COLECCIONES EN GENERAL

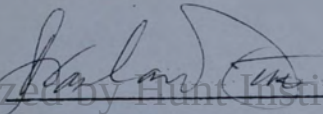
1. Quedará en Venezuela un juego (set) completo de todas las colecciones, incluyendo las muestras únicas.
2. El primer juego (set) de muestras botánicas así como las muestras únicas se depositarán en el Herbario Nacional de Venezuela (VEN) y el resto de los duplicados será distribuido por VEN, de común acuerdo con la Fundación y el resto de las Instituciones participantes.
3. En el caso de muestras zoológicas el Museo de Biología de la Universidad Central de Venezuela y el Servicio Nacional de Fauna Silvestre, decidirá sobre el destino y distribución de las muestras, garantizando que el primer juego (set) y el 50% de los especímenes quede en Venezuela.
4. Los holotipos que resulten de descripciones de especies nuevas deberán regresar a las Instituciones coordinadoras antes mencionadas (Herbario Nacional de Venezuela, Servicio Nacional de Fauna Silvestre y Museo de Biología, U.C.V.) y en forma de intercambio por el Holotipo le será enviado un isotipo.
5. Las autoridades en Venezuela para coordinar la distribución de muestras de la Expedición son: La Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales, representada por: Charles Brewer-Carías, como Coordinador General, habiéndose designado como coordinadores de área a:
 - Botánica: Julián Steyermark
 - Zoología: Antonio Machado
 - Ecología: Ernesto Medina.

Los mismos bajo la supervisión de un funcionario del Instituto Nacional de Parques (INPARQUES), en lo que se refiere a la protección del Parque.

6. La publicación de cualquier libro donde se describan los resultados preliminares de la Expedición, se presenten fotos, mapas, etc., y en general resuma las actividades realizadas, deberá publicarse en idioma castellano, pudiendo posteriormente ser publicados en cualquier otro idioma.
7. Los trabajos científicos que realicen los investigadores podrán publicarse en el idioma que el autor considere conveniente, estando el investigador obligado a enviar una copia y un resumen en castellano de su trabajo, quedando el Instituto Nacional de Parques autorizado para utilizar los resultados de esa Investigación a los usos que este organismo estime conveniente.

Por la FUNDACION

Por la Institución investigadora



Francisco Carrillo Batalla
Presidente

NOTA: Favor devolver debidamente firmado el original de este Convenio, por una autoridad superior dentro de la Institución.

De considerar necesarios, háganos llegar sus comentarios fundamentados en su experiencia, los cuales nos puedan ser de utilidad para la consideración de casos particulares.

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

EDIF. ICAUCA - MEZZ. 2
PELOTA A PUNCERES
AVDA. URDANETA

TELEFONO 561.35 00
APARTADO No. 1998
CARACAS 1010-A - VENEZUELA

CONVENIO SOBRE LAS PUBLICACIONES CIENTIFICAS

RESULTANTES DE LA EXPEDICION

I. INTRODUCCION

La Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales considera que es trascendental dentro de la Expedición al Cerro de La Neblina, lo relativo a los informes escritos sobre los resultados de sus observaciones y trabajos de campo de los investigadores participantes.

Es por ello que se ha designado al Coordinador Ejecutivo y Jefe de la Expedición, Charles Brewer-Carías, como El Editor de las publicaciones, las cuales serán hechas a nombre de la Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales, el Instituto Nacional de Parques, el Consejo Nacional de Investigaciones Científicas y Tecnológicas y otras instituciones que manifestaren interés, efectuándose la impresión en Venezuela.

II. PUBLICACIONES

Se han programado tres (3) tipos de publicaciones, en tres etapas distintas, dentro del marco propio de la evolución de las investigaciones:

- A. Informe Preliminar / Preliminary Report
- B. Resultados de la Investigación / Research Report
- C. Catálogo de Separatas de Contribuyentes del Cerro de La Neblina/
Reprint Catalogue

A. INFORME PRELIMINAR / PRELIMINARY REPORT

Se publica inmediatamente al salir el investigador del Campamento. Consiste en una información inicial que debe presentarse antes de abandonar el país, en el caso de científicos visitantes; la cual entre otras cosas muestra el área de exploración, el tema y los resultados en el campo; considerándose básicamente un inventario del trabajo realiza

do, de manera que los investigadores al llegar al campamento conozcan la evolución de los otros trabajos que se están realizando, contando para ello con un registro confiable, evitando incurrir en duplicación de trabajos y colecciones innecesarias; así mismo se garantiza la calidad de la metodología de trabajo utilizada. Esta publicación podrá ser realizada en forma facsimilar de los informes, para consumo del equipo de investigadores, así como de sus instituciones patrocinantes, a los efectos de permitir un contacto e interrelación más efectivos. Al concluir la expedición se enviará copia del conjunto de informes a cada uno de los participantes inscritos y se encuadernarán las separatas como volumen de guía y consulta. Para facilitar esta recopilación de información se entregará una carpeta de trabajo a cada investigador, de la cual se podrá sacar de inmediato, con papel carbón, un duplicado para El Editor, sin recargar de trabajo al científico.

El Informe Preliminar / Preliminary Report, contendrá entre otros datos, los siguientes:

- * Cronología de ocupación
- * Areas geográficas ocupadas en exploración
- * Posición en el campamento
- * Inventario personal y ocupación, particular y de sus acompañantes.
- * Climatología
- * Tema(s) desarrollado(s)
- * Resultados del trabajo de campo, en forma estimada
- * Número de colecciones, su distribución y ubicación.

B. RESULTADOS DE LA INVESTIGACION / RESEARCH REPORT

Al cabo del segundo año de haber sido iniciada la Expedición, cada participante debe someter un papel de trabajo con los resultados de la Exploración e investigación propia, el cual bien puede haber sido publicado anteriormente, pero que definitivamente debe ser realizado para cumplir con la fecha establecida, es decir dos años después de la fecha establecida, es decir dos años después de la fecha de inicio de la Expedición. El libro a publicar en esta etapa es la obra principal, ay que contiene los resultados propiamente de la Expedición, y El Editor y responsable principal es el mismo de la anterior.

La publicación se realizará en Español, con resúmenes en inglés de todos los artículos, ilustrándose con fotografías adicionales. El patro

cinio será el mismo de la obra anterior.

C. CATALOGO DE SEPARATAS DE CONTRIBUYENTES DEL CERRO DE LA NEBLINA /
REPRINT CATALOGUE

Dos (2) años después de la publicación de los resultados en Español, se realizará una impresión facsimilar de lo publicado con anterioridad y - posteriormente de la publicación de los RESULTADOS DE LA INVESTIGACION/ RESEARCH REPORT, por los mismos u otros colaboradores; siendo igualmente El Editor el de las dos obras anteriores.

Para cumplir con el propósito de esta publicación, se contará con la colaboración de los investigadores participantes, quienes deberán hacer llegar a la Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales, por lo menos un (1) ejemplar de las publicaciones que se hayan realizado hasta esa fecha de sus trabajos en revistas especializadas, así como informar a la Fundación de posibles publicaciones de otros autores producto de las observaciones y colecciones de esta Expedición.

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III. NORMAS PARA LOS AUTORES

- a. Toda publicación traerá como parte de la Introducción los siguientes créditos para las instituciones organizadoras y la dirección:

" La Expedición al Parque Nacional Cerro de La Neblina ha sido organizada y dirigida por la Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales de Venezuela, con el patrocinio del Ministerio de Educación, Consejo Nacional de Investigaciones Científicas y Tecnológicas, Instituto Nacional de Parques, todas ellas instituciones venezolanas, bajo la coordinación del Dr. Charles Brewer-Carías y con la colaboración de la National Science Foundation de los Estados Unidos, la Royal Geographical Society de Inglaterra, y las siguientes instituciones norteamericanas: American Museum of Natural History, Field Museum of Natural History, National Museum of Natural History, New York Botanical Garden y Smithsonian Institution."

- b. Todo autor ubicará sobre reproducción de imagen de radar los lugares donde realizó su investigación y la fecha de su exploración.

TU Berlin · IOC · Sekr. C 3 · Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R.M. King
Dept. of Botany
National Museum of
Natural History
Smithsonian Institution
Washington DC 20560
U.S.A.

FACHBEREICH 5
SYNTHETISCHE
UND
ANALYTISCHE
CHEMIE

Institut für
Organische
Chemie

Direktor: Professor
Dr. F. Bohlmann

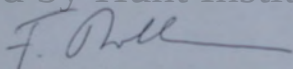
☐ (030) 314-2252

Datum 26th Oct 1983

Dear Dr. King,

just now we got the message from Swain that he now accept all papers.
Most likely the problems are solved. I do not know what has happened. He now
writes very friendly.

With kind regards

A handwritten signature in dark ink, appearing to read 'F. Bohlmann', written in a cursive style.

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
National Museum of
Natural History
Smithsonian Institution
Washington, D.C. 20560

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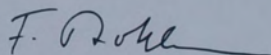
☎ (030) 314- 2252

Datum 31.10.1983

Dear Dr. King,

thanks for your letter and the identification of the vouchers.
The chemistry of the Gaillardia species really better agrees
with that of G. pulchella! Concerning the Aspilina (RMK 8192)
can we say that this is a new species? You may remember that
these were several interesting diterpenes.

Kind regards



(F. Bohlmann)

November 14, 1983

Dear Dr. Bohlmann,

Thanks for your recent letter. I was pleased to learn that Swain will now accept your papers. Thanks also for the manuscript of the Gaillardia paper. I am inclosing the pages which I suggest some changes.

It is that time of the year again. As I indicated in an earlier letter, I plan to collect material for in Colombia this next January. Will you then send me the usual amount, \$5000.00. Because of inflation this will probably not be enough. I will be able to get some money here as usual.

Thanks in advance,

Sincerely yours,

Robert M. King
Department of Botany

357-2546

November 27, 1983

Dear Dr. Bohlmann,

Thanks for the package of plants which I just received earlier this week. So please excuse the delay in answering your request. The list of correct names are enclosed. Also, included are pages from the manuscripts that you sent. Some suggestions are included in red.

Sincerely,

Robert M. King
Department of Botany

Senecio discolor = *Pentacalia discolor* (Sw.) H. Robinson

Pseudelephantopus spicatus (Juss.) Rohr

Emilia fosbergii Nicolson

Wedelia trilobata (L.) Hitchc.

Chromolaena heteroclina (Griseb.) K. & R.

Pluchea symphytifolia (Miller) Gillis

Vernonia divaricata Sw.

Ageratina tristis (DC) K. & R.

Baccharia scoparis (L.) Sw.

Vernonia pliodis = *Vernonia acuminata* Less.

Vernonia acuminata Less.

Here is the list of the plants that you collected in Jamaica.

RMK

TU Berlin · IOC · Sekr. C 3 · Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R.M. King
National Museum of
Natural History
Dept. of Botany
Smithsonian Institution
Washington DC 20560
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FACHBEREICH 5
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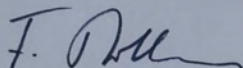
☎ (030) 3142252

Datum 5th Dec 1983

Dear Dr. King,

I has been on a Congress for two weeks and I therefore only now can answer your letters. Thanks for the list of names for the Paraguay samples and the corrections. In the meantime I got the enclosed letter from Dr. Brewer-Carias. I do not know whether it indicates that they are willing to except you. I have orded to send \$ 5.000,- to you for the Colombia collection and I hope you will get it soon.

Kind regards



TECHNISCHE UNIVERSITÄT BERLIN

Fachbereich 5

INSTITUT FÜR ORGANISCHE CHEMIE

Direktor: Professor Dr. F. Bohlmann

BERLIN

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, 1000 Berlin 12

Telefon: (030) 314-

Berlin, den

6. 12. 63

Dear Dr. King,

Thanks for the corrections.

I hope you have got the money

for the trip to Peru.

Kind regards

F. Bohlmann

357-2546

December 27, 1983

Dear Dr. Bohlmann,

Just a short note to let you know that the money arrived late last week.

The names for some samples that I sent to you earlier:

RMK 9312 *Verbesina occidentalis* (L.) Walter

RMK 9313 *Eupatorium serotinum* Michx.

Thanks for your list of publications. Hope that you had a nice Christmas and a Happy New Year.

I leave for Colombia on the first of January.

Sincerely,

Robert M. King
Department of Botany

Dr. F. BOHLMANN
Director of INSTITUT FÜR
ORGANISCHE CHEMIE, TECHNISCHE
UNIVERSITÄT BERLIN
T.U. BERLIN, 10C Sekr. C-3, Strabe
des 17 Juni 135, D-1000, Berlin 12
WEST GERMANY.-

TELEX CIRCULAR

THE EXPEDITION TO NEBLINA PARK WILL START ON FEBRUARY FIRST
1984 THROUGH APRIL 30TH AND START AGAIN ON OCTOBER FIRST UNTIL
DECEMBER 28TH. THE HELICOPTER FLIGHTS IN THE AREA OF NEBLINA
ARE SCHEDULED FOR THE FIRST TEN DAYS OF FEBRUARY , MARCH, APRIL,
OCTÖBER, NOVEMBER AND DECEMBER. WE APPRECIATE YOUR INFORMING US
ABOUT YOUR PROPOSED VISIT TO NEBLINA IN ORDER TO CONFIRM ADMISSION.
PAYMENT OF CONTRIBUTION OF U.S. \$ 50,00 PER DAY AND PER PERSON
TO BE REMITTED AT YOUR ARRIVAL TO CARACAS TO THE FOUNDATION OR
REPRESENTATIVE. KIND REGARDS AND HAPPY NEW YEAR

FRANCISCO CARRILLO BATALLA
PRESIDENTE

CHARLES BREWER CARIAS
EXECUTIVO COORDINATOR

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS,
MATEMATICAS Y NATURALES

Caracas, January 5th. 1.984

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS
FISICAS, MATEMATICAS Y NATURALES

EDIF. ICAUCA - MEZZ. 2
PELOTA A PUNCERES
AVDA. URDANETA

TELEFONO 561.35.00
APARTADO No. 1998
CARACAS 1010-A - VENEZUELA

Caracas, 25 de Octubre de 1.983

Dr. F. BOHLMANN
Director del INSTITUT FÜR
ORGANISCHE CHEMIE, FACHBEREICH
5 SYNTHETISCHE CHEMIE
Technische Universität Berlin
T.U. Berlin, 10 C, Sekr. C 3,
Strabe des 17 Juni 135, D-1000
Berlin 12, Alemania Occidental.-

Apreciado Profesor Bohlmann,

Nos resulta grato acusar recibo de su atenta comunicación del pasado mes de Julio, la cual hemos demorado en responder debido a nuestro deseo de proporcionar la mayor información posible en cuanto a los participantes, situación del Campamento Base y los cambios propios de un Proyecto de esta naturaleza.

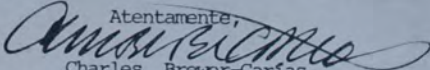
En cuanto a los participantes de la Expedición, la anexamos un cuadro descriptivo de los científicos que han confirmado su asistencia, de acuerdo con las fechas iniciales de la Expedición, el cual le será de utilidad en la decisión final de estadía, de acuerdo a la afinidad con sus colegas; y como referencia adicional, también le incluimos un cuadro descriptivo de todos los científicos solicitantes hasta el momento, con sus respectivas especialidades e Instituciones.

La construcción del Campamento Base está en marcha y el Gobierno venezolano ha cumplido con los fondos previstos, lo cual nos permite terminar sus instalaciones y áreas de apoyo y servicios para final de este año, garantizando la recepción de los científicos visitantes a partir de Enero de 1984.

Del trabajo conjunto de los científicos venezolanos y autoridades oficiales, con amplia experiencia en trabajos de campo en combinación con investigadores internacionales, ha surgido una serie de instrumentos de apoyo, entre los cuales figuran las NORMAS PARA COLECCIONES BOTANICAS Y ZOOLOGICAS, de las cuales anexamos un par; de igual manera incluimos un juego, por cada investigador, del CONVENIO SOBRE LAS PUBLICACIONES, y deseamos que los originales de ambos nos sean devueltos debidamente firmados, y si lo desean con sus comentarios en hoja separada.

En cuanto a su expediente, lo hemos revisado, notando que falta el envío de la siguiente información de los científicos de la T.U.: Curriculum vitae, Itinerario, Fecha de estadía, fotocopias de documentos personales, fotografías (6), otras necesidades de personal, breve descripción de los equipos, peso-volumen del equipo de apoyo, Plan de trabajo. Para facilitar la organización de la misma, anexamos copia de los Requisitos para participar en la Expedición.

A la espera de sus gratas noticias, nos despedimos, recordándoles que les mantendremos debidamente informados de la evolución del Campamento Base y de todos los detalles de interés.

Atentamente,

Charles Brewer-Carías
Coordinador Ejecutivo de la Expedición
al Cerro de La Neblina

Anexos.

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

EDIF. ICAUCA - MEZZ. 2
PELOTA A PUNCERES
AVDA. URDANETA

TELEFONO: 561.35.00
APARTADO No. 1998
CARACAS 1010-A - VENEZUELA

ACTA CONVENIO A SUSCRIBIR ENTRE LOS INVESTIGADORES Y

LA FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

NORMAS PARA EXPLORACIONES Y COLECCIONES EN GENERAL

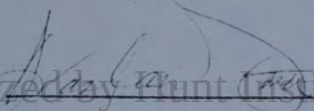
1. Quedará en Venezuela un juego (set) completo de todas las colecciones, incluyendo las muestras únicas.
2. El primer juego (set) de muestras botánicas así como las muestras únicas se depositarán en el Herbario Nacional de Venezuela (VEN) y el resto de los duplicados será distribuido por VEN, de común acuerdo con la Fundación y el resto de las Instituciones participantes.
3. En el caso de muestras zoológicas el Museo de Biología de la Universidad Central de Venezuela y el Servicio Nacional de Fauna Silvestre, decidirá sobre el destino y distribución de las muestras, garantizando que el primer juego (set) y el 50% de los especímenes quede en Venezuela.
4. Los holotipos que resulten de descripciones de especies nuevas deberán regresar a las Instituciones coordinadoras antes mencionadas (Herbario Nacional de Venezuela, Servicio Nacional de Fauna Silvestre y Museo de Biología, U.C.V.) y en forma de intercambio por el Holotipo le será enviado un isotipo.
5. Las autoridades en Venezuela para coordinar la distribución de muestras de la Expedición son: La Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales, representada por: Charles Brewer-Carías, como Coordinador General, habiéndose designado como coordinadores de área a:
 - Botánica: Julián Steyermark
 - Zoología: Antonio Machado
 - Ecología: Ernesto Medina.

Los mismos bajo la supervisión de un funcionario del Instituto Nacional de Parques (INPARQUES), en lo que se refiere a la protección del Parque.

6. La publicación de cualquier libro donde se describan los resultados preliminares de la Expedición, se presenten fotos, mapas, etc., y en general resuma las actividades realizadas, deberá publicarse en idioma castellano, pudiendo posteriormente ser publicados en cualquier otro idioma.
7. Los trabajos científicos que realicen los investigadores podrán publicarse en el idioma que el autor considere conveniente, estando el investigador obligado a enviar una copia y un resumen en castellano de su trabajo, quedando el Instituto Nacional de Parques autorizado para utilizar los resultados de esa Investigación a los usos que este organismo estime conveniente.

Por la FUNDACION

Por la Institución investigadora

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Francisco Carrillo Batalla
Presidente

NOTA: Favor devolver debidamente firmado el original de este Convenio, por una autoridad superior dentro de la Institución.

De considerar necesarios, háganos llegar sus comentarios fundamentados en su experiencia, los cuales nos puedan ser de utilidad para la consideración de casos particulares.

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

EDIF. ICAUCA - MEZZ. 2
PELOTA A PUNCERES
AVDA. URDANETA

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CARACAS 1010-A - VENEZUELA

ACTA CONVENIO A SUSCRIBIR ENTRE LOS INVESTIGADORES Y

LA FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

NORMAS PARA EXPLORACIONES Y COLECCIONES EN GENERAL

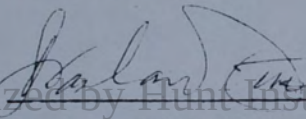
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Por la FUNDACION

Por la Institución investigadora



Francisco Carrillo Batalla
Presidente

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FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

EDIF. ICAUCA - MEZZ. 2
PELOTA A PUNCIERES
AVDA. URDANETA

TELEFONO 561.35.00
APARTADO No. 1998
CARACAS 1010-A - VENEZUELA

CONVENIO SOBRE LAS PUBLICACIONES CIENTIFICAS

RESULTANTES DE LA EXPEDICION

I. INTRODUCCION

La Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y naturales considera que es trascendental dentro de la Expedición al Cerro de La Neblina, lo relativo a los informes escritos sobre los resultados de sus observaciones y trabajos de campo de los investigadores participantes.

Es por ello que se ha designado al Coordinador Ejecutivo y Jefe de la Expedición, Charles Brewer-Carías, como El Editor de las publicaciones, las cuales serán hechas a nombre de la Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales, el Instituto Nacional de Parques, el Consejo Nacional de Investigaciones Científicas y Tecnológicas y otras instituciones que manifestaren interés, efectuándose la impresión en Venezuela.

II. PUBLICACIONES

Se han programado tres (3) tipos de publicaciones, en tres etapas distintas, dentro del marco propio de la evolución de las investigaciones:

- A. Informe Preliminar / Preliminary Report
- B. Resultados de la Investigación / Research Report
- C. Catálogo de Separatas de Contribuyentes del Cerro de La Neblina/
Reprint Catalogue

A. INFORME PRELIMINAR / PRELIMINARY REPORT

Se publica inmediatamente al salir el investigador del Campamento. Consiste en una información inicial que debe presentarse antes de abandonar el país, en el caso de científicos visitantes; la cual entre otras cosas muestra el área de exploración, el tema y los resultados en el campo; considerándose básicamente un inventario del trabajo realiza

do, de manera que los investigadores al llegar al campamento conozcan la evolución de los otros trabajos que se están realizando, contando para ello con un registro confiable, evitando incurrir en duplicación de trabajos y colecciones innecesarias; así mismo se garantiza la calidad de la metodología de trabajo utilizada. Esta publicación podrá ser realizada en forma facsimilar de los informes, para consumo del equipo de investigadores, así como de sus instituciones patrocinantes, a los efectos de permitir un contacto e interrelación más efectivos. Al concluir la expedición se enviará copia del conjunto de informes a cada uno de los participantes inscritos y se encuadernarán las separatas como volumen de guía y consulta. Para facilitar esta recopilación de información se entregará una carpeta de trabajo a cada investigador, de la cual se podrá sacar de inmediato, con papel carbón, un duplicado para El Editor, sin recargar de trabajo al científico.

El Informe Preliminar / Preliminary Report, contendrá entre otros datos, los siguientes:

- * Cronología de ocupación
- * Areas geográficas ocupadas en exploración
- * Posición en el campamento
- * Inventario personal y ocupación, particular y de sus acompañantes.
- * Climatología
- * Tema(s) desarrollado(s)
- * Resultados del trabajo de campo, en forma estimada
- * Número de colecciones, su distribución y ubicación.

B. RESULTADOS DE LA INVESTIGACION / RESEARCH REPORT

Al cabo del segundo año de haber sido iniciada la Expedición, cada participante debe someter un papel de trabajo con los resultados de la Exploración e investigación propia, el cual bien puede haber sido publicado anteriormente, pero que definitivamente debe ser realizado para cumplir con la fecha establecida, es decir dos años después de la fecha establecida, es decir dos años después de la fecha de inicio de la Expedición. El libro a publicar en esta etapa es la obra principal, ya que contiene los resultados propiamente de la Expedición, y El Editor y responsable principal es el mismo de la anterior.

La publicación se realizará en Español, con resúmenes en inglés de todos los artículos, ilustrándose con fotografías adicionales. El patro

cinio será el mismo de la obra anterior.

C. CATALOGO DE SEPARATAS DE CONTRIBUYENTES DEL CERRO DE LA NEBLINA /
REPRINT CATALOGUE

Dos (2) años después de la publicación de los resultados en Español, se realizará una impresión facsimilar de lo publicado con anterioridad y - posteriormente de la publicación de los RESULTADOS DE LA INVESTIGACION/ RESEARCH REPORT, por los mismos u otros colaboradores; siendo igualmente El Editor el de las dos obras anteriores.

Para cumplir con el propósito de esta publicación, se contará con la colaboración de los investigadores participantes, quienes deberán hacer llegar a la Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales, por lo menos un (1) ejemplar de las publicaciones que se hayan realizado hasta esa fecha de sus trabajos en revistas especializadas, así como informar a la Fundación de posibles publicaciones de otros autores producto de las observaciones y colecciones de esta Expedición.

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III. NORMAS PARA LOS AUTORES

- a. Toda publicación traerá como parte de la Introducción los siguientes créditos para las instituciones organizadoras y la dirección:

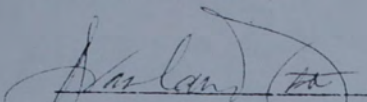
" La Expedición al Parque Nacional Cerro de La Neblina ha sido organizada y dirigida por la Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales de Venezuela, con el patrocinio del Ministerio de Educación, Consejo Nacional de Investigaciones Científicas y Tecnológicas, Instituto Nacional de Parques, todas ellas instituciones venezolanas, bajo la coordinación del Dr. Charles Brewer-Carías y con la colaboración de la National Science Foundation de los Estados Unidos, la Royal Geographical Society de Inglaterra, y las siguientes instituciones norteamericanas: American Museum of Natural History, Field Museum of Natural History, National Museum of Natural History, New York Botanical Garden y Smithsonian Institution."

- b. Todo autor ubicará sobre reproducción de imagen de radar los lugares donde realizó su investigación y la fecha de su exploración.

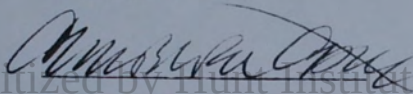
- c. Toda publicación de autor en revista especializada deberá llevar un "Abstract" en español o en inglés, viceversa según la lengua en la cual se hubiere escrito el trabajo. Se deberá incluir la dirección y el número de teléfono para su adecuada localización.
- d. Todo participante deberá firmar el presente convenio, y si lo desea podrá anexar comentarios que considera podrán ayudar al Editor en su tarea.

Por la FUNDACION

POR la Institución Investigadora


Francisco Carrillo Batalla
Presidente

Investigador:
Cargo:


Charles Brewer-Carías
El Editor

Lugar y fecha: _____

NOTA: Se envía un juego o set de original y copia por cada investigador.
Se agradece devolver el original debidamente firmado y sellado.

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS, MATEMATICAS Y NATURALES

EDIF. ICAUCA - MEZZ. 2
PELOTA A PUNCERES
AVDA. URDANETA

TELEFONO 561.35.00
APARTADO No. 1998
CARACAS 1010-A - VENEZUELA

CONVENIO SOBRE LAS PUBLICACIONES CIENTIFICAS

RESULTANTES DE LA EXPEDICION

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- C. Catálogo de Separatas de Contribuyentes del Cerro de La Neblina/
Reprint Catalogue

A. INFORME PRELIMINAR / PRELIMINARY REPORT

Se publica inmediatamente al salir el investigador del Campamento. Consiste en una información inicial que debe presentarse antes de abandonar el país, en el caso de científicos visitantes; la cual entre otras cosas muestra el área de exploración, el tema y los resultados en el campo; considerándose básicamente un inventario del trabajo realiza

do, de manera que los investigadores al llegar al campamento conozcan la evolución de los otros trabajos que se están realizando, contando para ello con un registro confiable, evitando incurrir en duplicación de trabajos y colecciones innecesarias; así mismo se garantiza la calidad de la metodología de trabajo utilizada. Esta publicación podrá ser realizada en forma facsimilar de los informes, para consumo del equipo de investigadores, así como de sus instituciones patrocinantes, a los efectos de permitir un contacto e interrelación más efectivos. Al concluir la expedición se enviará copia del conjunto de informes a cada uno de los participantes inscritos y se encuadernarán las separatas como volumen de guía y consulta. Para facilitar esta recopilación de información se entregará una carpeta de trabajo a cada investigador, de la cual se podrá sacar de inmediato, con papel cartón, un duplicado para El Editor, sin recargar de trabajo al científico.

El Informe Preliminar / Preliminary Report, contendrá entre otros datos, los siguientes:

- * Cronología de ocupación
- * Areas geográficas ocupadas en exploración
- * Posición en el campamento
- * Inventario personal y ocupación, particular y de sus acompañantes.
- * Climatología
- * Tema(s) desarrollado(s)
- * Resultados del trabajo de campo, en forma estimada
- * Número de colecciones, su distribución y ubicación.

B. RESULTADOS DE LA INVESTIGACION / RESEARCH REPORT

Al cabo del segundo año de haber sido iniciada la Expedición, cada participante debe someter un papel de trabajo con los resultados de la Exploración e investigación propia, el cual bien puede haber sido publicado anteriormente, pero que definitivamente debe ser realizado para cumplir con la fecha establecida, es decir dos años después de la fecha establecida, es decir dos años después de la echa de inicio de la Expedición. El libro a publicar en esta etapa es la obra principal, ay que contiene los resultados propiamente de la Expedición, y El Editor y responsable principal es el mismo de la anterior.

La publicación se realizará en Español, con resúmenes en inglés de todos los artículos, ilustrándose con fotografías adicionales. El patro

cinio será el mismo de la obra anterior.

C. CATALOGO DE SEPARATAS DE CONTRIBUYENTES DEL CERRO DE LA NEBLINA /
REPRINT CATALOGUE

Dos (2) años después de la publicación de los resultados en Español, se realizará una impresión facsimilar de lo publicado con anterioridad y - posteriormente de la publicación de los RESULTADOS DE LA INVESTIGACION/ RESEARCH REPORT, por los mismos u otros colaboradores; siendo igualmente El Editor el de las dos obras anteriores.

Para cumplir con el propósito de esta publicación, se contará con la colaboración de los investigadores participantes, quienes deberán hacer llegar a la Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales, por lo menos un (1) ejemplar de las publicaciones que se hayan realizado hasta esa fecha de sus trabajos en revistas especializadas, así como informar a la Fundación de posibles publicaciones de otros autores producto de las observaciones y colecciones de esta Expedición.

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III. NORMAS PARA LOS AUTORES

- a. Toda publicación traerá como parte de la Introducción los siguientes créditos para las instituciones organizadoras y la dirección:

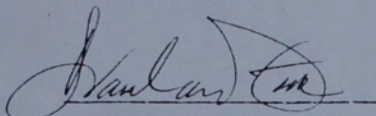
" La Expedición al Parque Nacional Cerro de La Neblina ha sido organizada y dirigida por la Fundación para el Desarrollo de las Ciencias Físicas, Matemáticas y Naturales de Venezuela, con el patrocinio del Ministerio de Educación, Consejo Nacional de Investigaciones Científicas y Tecnológicas, Instituto Nacional de Parques, todas ellas instituciones venezolanas, bajo la coordinación del Dr. Charles Brewer-Carías y con la colaboración de la National Science Foundation de los Estados Unidos, la Royal Geographical Society de Inglaterra, y las siguientes instituciones norteamericanas: American Museum of Natural History, Field Museum of Natural History, National Museum of Natural History, New York Botanical Garden y Smithsonian Institution."

- b. Todo autor ubicará sobre reproducción de imagen de radar los lugares donde realizó su investigación y la fecha de su exploración.

- c. Toda publicación de autor en revista especializada deberá llevar un "Abstract" en español o en inglés, viceversa según la lengua en la cual se hubiere escrito el trabajo. Se deberá incluir la dirección y el número de teléfono para su adecuada localización.
- d. Todo participante deberá firmar el presente convenio, y si lo desea podrá anexar comentarios que considera podrán ayudar al Editor en su tarea.

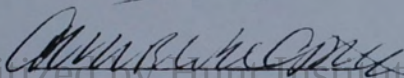
Por la FUNDACION

POR la Institución Investigadora



Francisco Carrillo Batalla
Presidente

Investigador:
Cargo:



Charles Brewer-Carías
El Editor

Lugar y fecha:

NOTA: Se envía un juego o set de original y copia por cada investigador.
Se agradece devolver el original debidamente firmado y sellado.

Dr. F. BOHLMANN
Director of INSTITUT FÜR
ORGANISCHE CHEMIE, TECHNISCHE
UNIVERSITÄT BERLIN
T.U. BERLIN, 10C Sekr. C-3, Strabe
des 17 Juni 135, D-1000, Berlin 12
WEST GERMANY.-

TELEX CIRCULAR

THE EXPEDITION TO NEBLINA PARK WILL START ON FEBRUARY FIRST
1984 THROUGH APRIL 30TH AND START AGAIN ON OCTOBER FIRST UNTIL
DECEMBER 28TH. THE HELICOPTER FLIGHTS IN THE AREA OF NEBLINA
ARE SCHEDULED FOR THE FIRST TEN DAYS OF FEBRUARY , MARCH, APRIL,
OCTOBER, NOVEMBER AND DECEMBER. WE APPRECIATE YOUR INFORMING US
ABOUT YOUR PROPOSED VISIT TO NEBLINA IN ORDER TO CONFIRM ADMISSION.
PAYMENT OF CONTRIBUTION OF U.S. \$ 50,00 PER DAY AND PER PERSON
TO BE REMITTED AT YOUR ARRIVAL TO CARACAS TO THE FOUNDATION OR
REPRESENTATIVE. KIND REGARDS AND HAPPY NEW YEAR

FRANCISCO CARRILLO BATALLA
PRESIDENTE

CHARLES BREWER CARIAS
EXECUTIVO COORDINATOR

FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS FISICAS,
MATEMATICAS Y NATURALES

Caracas, January 5th. 1.984

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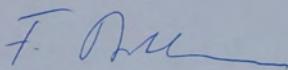
☎ (030) 314- 2252

Datum 17.1.1984

Dear Dr. King,

thanks for your letter and the two names. I hope that you had a good and successful trip to Colombia. We are just back from a Symposium at Kingston/Jamaica and we have collected some plant material. Could you please confirm the vouchers? We have compared with the Herbarium material of the U.W.I. You can hold the vouchers. Enclosed a telex from Dr. Brewer-Carias. I do not know whether you can use it. He never has clearly answered that you could go.

Kind regards



(F. Bohlmann)

January 25, 1984

Dear Dr. Bohlmann,

I have bad news to report to you. Because of my health problems, I was not able to go collecting for you in Colombia this month. As I may have told you I have a heart problem also. My doctor did not want me to go to any remote places at this time. The condition is not too bad and I can probably go in 6 months or more.

My concern is that your lab will have plenty to work on. Please let me know what your situation is.

Sincerely yours,

Robert M. King
Department of Botany

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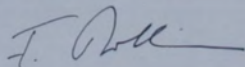
nr (030) 314 2252 Datum 13.2.1984

Dear Dr. King,

I am just back from a Congress at Karachi. I hope that your heart problem is not a severe one and I wish you that you soon will feel better. We, of course, still have a lot of work, probably for the whole year, but we are always interested to get more species from every place of the world.

I wish good health to you.

Kind regards



(F. Bohlmann)

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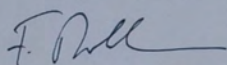
☎ (030) 314-2252

Datum 17th Feb 1984

Dear Dr. King,

Enclosed few species from Paraguay. Could you have a look
whether the names are correct?

With kind regards



Encl.

357-2546

March 6, 1984

Dear Dr. Bohlmann:

The names of the plants that you sent are:

- 3020 *Campuloclinium macrocephalum* (Less.) DC
- 3021 *Porophyllum lanceolatum* DC possibly specimen is very poor
- 3022 *Stevia entrerriensis* Hieron.
- 3019 *Baccharis articulata* Pers.
- 3023 *Xanthium spinosum* L.

Thanks for your letter. I am beginning to feel better.

Sincerely,

Robert M. King

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Datum 19th March 84

Dear Dr. King,

Thanks for your letter and the identification of further species from Paraguay. There is still no name of the *Helianthopsis* sp. (RMK 9141). Is this a new species? Enclosed I send you some copies of new papers and those with material of Turner. Only the *Hymenopappus* paper is with Turner as co-author. In the others he had no botanical additions and did not want to be co-author.

It was nice to hear that you are feeling better. I wish that you are soon recovering completely.

With kind regards

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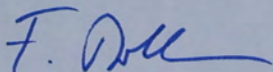
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Datum 26 March 84

Dear Dr. King,

We have just finished the investigation of Smallanthus glabratus from Peru from two locations (RMK 9138 and 9269). Most compounds are the same in both collections but there are some clear differences. Can you give us the locations? I think it would be better to add these places in the paper.

With kind regards



April 6, 1984

Dear Dr. Bohlmann:

Thanks for your letter. Regarding *Smallanthus glabratus*

9138 Cajamarca: 41 kms NE of Cajamarca, 10,400 ft

9269 Amazonas: 17 kms SE of Chachapoyas, 8700 ft.

Enclosed also are some comments on the papers that you sent earlier.

On another matter. I am planning a collecting trip to Chile next January to get material for chemical study for you. There are some aspects of the trip that I would like to share with you and learn your comments.

1. the trip would be expensive, the distance is great.
2. the country is expensive.
3. the number of genera and species of compositae in Chile is not great but there are a number of very interesting genera and species of the tribe Mutisieae. I would probably not be able to get you the large number of samples that I would like. However, both Robinson and I believe that it worth doing. We understand that we cannot get every species, but we must get the broadest sample possible. Some of these plants in Chile are very unique. We need the information for the final work. We hope that you agree.

Sincerely,

Robert M. King

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☎ (030) 314-2252

Datum 6th April 84

Dear Dr. King,

Enclosed I send you copies of our last papers. We have still no names for the two Helianthopsis species (RMK 9141 and 9155). As this is a new genus it would be nice to have a short report on its chemistry. Furthermore more names for species from Peru are missing for

RMK 9104, 9240, 9298, 9281

and a few species names from old collections:

Gnaphalium (7547), Pentacalia (7676), Senecio (9261) and (8992)

and those from Wedelia and Aspilia which Dr. Robinson already has announced that he will try to get them clear.

I hope you are now feeling well,

kind regards

F. Bohlmann

Encl.

Helianthopsis microphylla (H.B.K.) H. Robinson

bishopii H. Rob.

utcybambensis H. Rob.

Senecio usgerensis Cuscut.

Lizium wurdackii Ferreyra

Cronquistianthus bishopii K. & R.

melanosphaeroides Sch. Bip.

7496
7502

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Datum 2nd May 1984

Dear Dr. King,

Thank you for the letters and the corrections. Concerning your plan to collect in Chile I agree with you that surely several interesting Compositae are there. I have been there in December for a Symposium, I therefore know that the country is not very expensive (hotels and meals). However, the distances are very large. The chemists probably would help if we arrange a cooperation with them. Personally I know Prof. Silva in Concepcion, Dr. Nunez in Valdivia and Prof. Niemeyer in Santiago.

Enclosed a few vouchers (some are very bad as no flowers were available) from the North of Mexico where I have been for a Symposium in Monterrey. Can you try to get them identified?

With kind regards

F. Bohlmann

Figured out localities!

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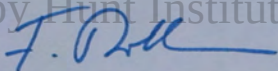
Datum 4th May 1984

Dear Dr. King,

Thanks for the *Balsamorhiza* species which arrived in good condition.

Kind regards

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A handwritten signature in blue ink, appearing to read 'F. Bohlmann', written over the digitization text.

May 11, 1984

Dear Dr. Bohlmann,

Thanks for your letter and the specimens. Surpriced that you were in Mexico. I note that you got a lot of good dpecimens. I will send you the names in a day or two.

Regarding my trip to Chile, I think it would be best to use your friends. I plan to make the trip next January in 1985. It seems the best places are near and between Concepcion and Santiago. I have a botanist friend, C. Marticorena in Concepcion and will write to him. I expect that we can get more help from your chemist friends. Therefore, I would suggest that you write to Silva and Niemeyer to see if they can help. I would like to spend the whole month of January there. It would be very helpful if they could provide me with a jeep from their institutions. Another big problem is the shipping of specimens and chemical material out of the country. It will be interesting to see what arrangements and cooperation you will be able to get.

Sincerely yours,

Robert M. King

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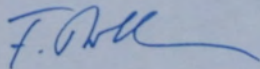
Datum 11.5.1984

Dear Dr. King,

Thank you for the Arnica species which we get in good condition. I just have seen our investigation of a Helianthopsis species (RMK 9141 and 9155). Can you give us full names for these species? Names are also missing for RMK 9104, 9240, 9280 and 9281 from Peru, but these we have not investigated so far as we do not know what genus they are.

Enclosed some new results.

With kind regards



(F. Bohlmann)

Encl.

May 14, 1984

Dear Dr. Bohlmann,

Here are some of the names that you requested.

RMK 9141 *Helianthopsis bishopii* H. Robinson

RMK 9155 *Helianthopsis utcubambensis* H. Robinson

RMK 9104 *Helianthopsis microphylla* (H B K) H. Robinson

RMK 9240 *Senecio usgorensis* Cuatr.

RMK 9298 *Liabum wurdackii* Ferreyra

RMK 9281 *Cronquistianthus bishopii* R.M.King & H. Robinson

RMK 7547 *Gnaphalium melanosphaeroides* Sch.-Bip.

Here are your recent collections from Mexico.

1 *Stevia lemmonii* A. Gray

2 *Stevia salicifolia* Cav.

3 *Senecio cyclophyllus* Greenm.

4 *Senecio bellidifolius* H BK

5 *Brickellia vernicosa* B.L. Robinson

6 *Barbyleanthus salicifolius* (H B K) H. Rob. & Brett.

7 *Baccharis serraefolia* DC.

8 *Stevia salicifolia* Cav.

9 *Dyssodia pentachaeta* (DC) B.L. Robinson

10 *Porophyllum scoparia* A. Gray

11 *Senecio cyclophyllus* Greenm.

12 *Vernonia greggii* A. Gray

13 *Stevia berlandieri* A. Gray

14 *Gochnachia ~~lyf61~~ hypoleuca* (DC) A. Gray

I know that you will get a lot of good results from these plants.

Sincerely yours,

Robert M. King

Department of Botany



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Datum 16th May 1984

Dear Dr. King,

Thanks for your letter. I shall try my best to get the problems solved. I will write to Silva and also to Niemeyer and offer them again a cooperation on the Chilean Composites. This surely is necessary as, otherwise, it will be difficult to get the allowance to collect and to send the material. Surely Prof. Marticorena or Mathei could help you with a jeep, at least for some trips, perhaps not for the whole time.

With kind regards

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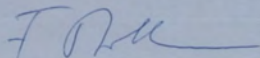
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Datum 21.5.1984

Dear Dr. King,

thank you very much for the prompt identification of our,
in part very bad, voucher specimens. We are now really
feeling like experts as we have collected only species of
interest. *Vernonia greggii* has been roughly studied before,
but the rest not at all. However, this surely was only
by chance.

Kind regards,
also to Dr. Robinson



(F. Bohlmann)

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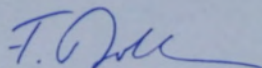
Datum 6.6.1984

Dear Dr. King,

in the meantime I got an answer from Prof. Silva in Concepcion/
Chile. He is prepared to help and also Prof. Matthei. The

latter would be glad to get a duplicate of the voucher specimen.
Enclosed some new results.

Kind regards



(F. Bohlmann)

June 13, 1984

Dear Dr. Bohlmann,

Enclosed please find some possible changes that you might make in the Ageratina paper.

Here are some other names that you requested.

RMK *Helianthopsis microphylla* (H.B.K.) H. Robinson RMK 9104

RMK 9141 *Helianthopsis* nr. *smithii* Ferreyra

RMK 9240 *Senecio usgorensis* Cuatr.

RMK 9261 *Senecio dolichodoryius* Cuatr.

RMK 9280 *Bishopanthus soliceps* H. Robinson, new genus and species of Liabeae

RMK 9281 *Cronquistianthus bishopii* R.M.King & H. Robinson

Dr. Huber visited us earlier and I was pleased to learn that he has been collecting for you in Venezeula. I hope that something of interest will show up.

Do you know the exact date in 1988 when your laboratory will process the last material before we start to write up the summary of the work? It would be good to know so that we can plan our work carefully.

Sincerely,

Robert M. King
Department of Botany

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Datum 18.6.1984

Dear Dr. King,

thank you very much for your letter, the correction and the names. In the meantime I get a letter from Prof. Dr. H. Niemeyer, Universidad de Chile, Dept. of Chemistry, Casilla 653 - Santiago. He also would try to help you.

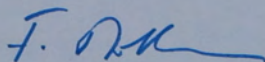
Enclosed a copy of a paper on Eupatoriastrum with comments of Turner. As you can see he in part do not agree with Robinson, but I think it is not an very important part of Robinsons work on Heliantheae.

Concerning the date of starting the summary on Compositae it is too early to say anything definite. Probably we should start in 1988 but most likely it may go one at least for a year. So far I have no clear ideas how to manage the whole work. There is an enormous amount of data on the chemistry. We alone have isolated already now more than 4000 new compounds and of course several thousand known ones. The first question would be, should we try to make a complete listening of the chemistry of all investigated species or only of types which are of chemotaxonomic relevance. The other question is, how to combine taxonomic and chemical argumentation? Of course I can not decide, how sure is the systematic of the different tribes, especially

the large ones (Eupatorieae and Heliantheae). What to do ~~is~~^{is} the Senecioneae where Jeffrey are mixing all genera trying to get a new arrangement, or the others were mostly no subtribed division is accepted?

Of course there are many other problems, but we still have some years.

Kind regards

A handwritten signature in blue ink, appearing to read 'F. Bohlmann', with a long horizontal flourish extending to the right.

(F. Bohlmann)

357-2546

June 19, 1984

Dear Dr. Bohlmann,

Thanks for your recent letter. I am glad to learn that Prof. Silva will help. We will, of course, give a duplicate of the voucher specimen to Prof Matthei. I have not heard from anyone in Chile yet.

Enclosed are some suggested possible change in the typescripts that you recently sent.

Sincerely yours,

Robert M. King

Department of Botany

Prof. Dr. R. M. King
National Museum of
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Dept. of Botany
Smithsonian Institution
Washington DC 20560
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FACHBEREICH 5
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CHEMIE
Institut für
Organische
Chemie

☎ (030) 314- 2252

Datum 3rd July 1984

Dear Dr. King,

Thnaks for your letter and the corrections. I think the people in Chile are waiting for some details from you concerning the planned collection trip. As mentioned previously so far I only have heard from Concepcion (Silva/Matthei) and Santiago (Prof. Niemeyer) that they are prepared to help.

Enclosed some new results. It is remarkable that still much more pyrrolizidine alkaloids can be isolated. A second paper on Senecio is just in preparation.

With kind regards

Encl.

July 18, 1984

Dear Dr. Bohlmann,

Thanks for your letters and the typescripts. I have just recently returned from vacation in Hawaii so please forgive the long delay in answering your letters.

The paper on Eupatoriastrum is interesting but has some problems. These, I believe, can be corrected in the summary work later. Turner is up to his old games!

With respect to the summary work on the chemistry of the Compositae, I should mention that the summary work on the Eupatorieae is finished and should appear early in 1985. With that in mind, I am eager to get working on the Chemistry of the Compositae. Right now I believe that it should contain a listing of the chemistry of all known species of composites.

E
Enclosed are some pages from the typescript of the Senecio paper. Some suggestions are made on the paper itself. What is the correct spelling of furanoceremophilanes?

Incidentally, I just sent you a package of 3 samples that I collected for you in Hawaii. RMK 9316 is an Ageratina and we have reason to believe that it might contain pyrrolizidine alkaloids. Could you check? Complete name will soon follow.

I have written to Prof. Marticorena in Concepcion some weeks ago. No answer as yet. Latin botanists are not very prompt in answering letters. You seem to have much better luck with chemists! Perhaps I should write to the chemists.

Sincerely yours,

Robert M. King
Department of Botany

Dr. R. M. King
National Museum of
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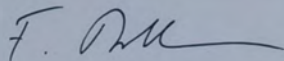
Datum 23th July 1984

Dear Dr. King,

Thanks for the plant material which we received in good condition.
Can you already say what it is? We have just finished the species from
Venezuela (*Achnopogon*, *Chimantaea* (2 sp.), *Gonophyllolepis* (2 sp.),
Quelchia, *Stenopadus*, *Stomatochaeta*). Unfortunately they all only gave triterpene^s
mainly lupeol derivatives. From a Mexican *Gochnatia* we got several inter-
esting dimeric lactones while the *Porophyllum* species gave, as expected,
thiophenes like *Tagetes*. Again we must fear that our papers will be published
very late as Swain only now announced that he has received the 30 papers
(he was in a hospital). But I hope that no new problems will arise.

Enclosed some copies (without Experimental part).

With kind regards



Encl.

Prof. Dr. R. M. King
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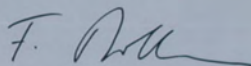
☎ (030) 314-2252

Datum 25th July 1984

Dear Dr. King,

Thanks for your letter and the corrections of the Senecio paper.
Concerning Chile you probably should write to Prof. Silva in Concepcion,
I hope he will answer you and contact the botanist. Enclosed unpublished
results were no new compounds were isolated, also these studies makes
a lot of work, but I think we should not publish this. If you already have
a copy on your Eupatoriae summary it would be nice to see it.
Furo- and furanoeremophilane both is used, but of course we should use
one.

Kind regards



Encl.

TU Berlin - IOC - Sekr. C.3 - Straße des 17. Juni 135, D-1000 Berlin 12

Prof. Dr. R. M. King
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Direktor: Professor
Dr. F. Bohlmann

■ (030) 314-2252

Datum 9th Aug 1984

Dear Dr. King,

We have just finished the investigation of the Balsamorhiza species which gave a lot of new sesquiterpene lactones which make some troubles concerning relationships. So far this type was isolated only from a Berlandiera species. As both genera are placed in the same subtribe this would be o. k. But now N. Fischer got this type from Montanoa tomentosa while all the other Montanoa species have characteristic 6,12-cis lactones. Is it possible that M. tomentosa is not a Montanoa?

It would be nice, if you could write something about the relationships of Balsamorhiza as Phytochemistry now wants such taxonomic conclusions in our papers, perhaps best at the end of the theoretical part, then I can add it without changing reference numbers.

With kind regards

F. Bohlmann

1249

1297

357-2546

August 10, 1984

Dear Dr. Bohlmann,

Thanks for your letter and the two typescripts. There are some changes written on them that you might wish to consider.

The name of the collections from Hawaii are as follows:

RMK 9314 *Heterotheca grandiflora* Nutt.

RMK 9315 *Verbesina encelaboides* (Cav.) Benth. & Hook.

RMK 9316 *Ageratina riparia* (Regel) K. & R.

Sincerely yours,

Robert M. King

Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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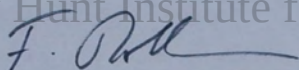
Datum 17th Aug 84

Dear Dr. King,

Thanks for your letter with the names and the corrections
of the two papers.

With kind regards

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A handwritten signature in dark ink, appearing to be 'F. Bohlmann', written in a cursive style.

357-2546

August 27, 1984

Dear Dr. Bohlmann,

Thanks for your letter of the 9 th. Enclosed please find the requested writeup for the paper on Balsamorhiza.

I am still having problems with my trip to Chile!

Sincerely,

Robert M. King

Department of Botany



TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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☎ (030) 314 2252

Datum 2nd Oct 1984

Dear Dr. King,

Enclosed I send you the copy of the Balsamorhiza paper and some vouchers from species from the Botanischer Garten Berlin which you better should control. Something is mixed at least with Solidago drummondii.

I hope that you get letters now from Chile or are there still problems?

With kind regards

F. Bohlmann

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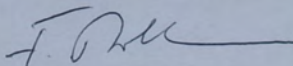
☎ (030) 314- 2252

Datum 10.9.1984

Dear Dr. King,

thanks for your letter and the botanical discussion. We now see that the compounds are nearly the same as those from *Montanoa tomentosa*. But surely it can not be that species as we have not get it from you. Or do you see a possibility that we got material of that Montanoa? What about the Chile-trip? You still get no answers from the Botany Department? Enclosed a letter from Prof. Niemeyer. You can see he is also writing to help.

Kind regards



(F. Bohlmann)



UNIVERSIDAD DE CHILE

FACULTAD DE CIENCIAS BASICAS Y FARMACEUTICAS
DEPARTAMENTO DE QUIMICA
CASILLA 653 - SANTIAGO
CHILE

SANTIAGO, June 11, 1984

Prof. F. Bohlmann
Institut für Organische Chemie
Technische Universität Berlin
Strasse des 17. Juni 135
D-1000 Berlin 12
West Germany

Dear Prof. Bohlman:

Thank you for your letter dated May 16. I would be glad to collaborate in the field of the phytochemistry of the Compositae. The visit of Dr. King is most welcome. I believe I can be of help in orienting Dr. King in the selection of relevant Compositae, in the sense of choosing those species or genera which do present interesting and promising chemotaxonomical, paleobotanical, evolutionary, insect-coevolutionary or medicinal problems.

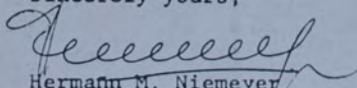
We need not however wait until January to start a joint research venture. I am presently carrying out a work on the genus Dasyphyllum (Mutiseae), with the aims of describing its origin and radiation pattern and its relations to other genera from which it was recently separated, explaining on chemical grounds the interaction of Dasyphyllum in Chile with Eroessa chilensis (Lepidoptera, Pieridae), and studying the coevolution of Dasyphyllum with its related fauna.

A necessary step in this project is the description of the chemicals present in various parts of the plant. We are, naturally, interested in a quantitative assessment of the compounds present, both major and minor, both novel and already-known. Would you be willing to take part in such a challenge? In such case, please let me know which extracts you prefer to work with so I can send them to you. I would then ask you to send the details of the fractionation and purification procedures employed as well as copies of the spectra from which identification was carried out.

I look forward to future joint enterprises.

With best regards.

Sincerely yours,


Hermann M. Niemeyer

HMN/vqa

October 22, 1984

Dear Dr. Bohlmann,

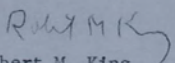
Thanks for your letter and the specimens. The names are as follows:

1. *Solidago drummondii* T & G
2. *S. flexicaulis* L.
3. *S. flexicaulis* L.
4. *S. juncea* Ait.
5. *S. canadensis* L.
6. *S. racemosa* Greene
7. *Ageratina altissima* (L.) K & R
8. *Artemisia stelleriana* Bess.
9. *Moscharia pinnatifida*

Do you have any more information regarding the localities of these collections?

The way that things look now it would be best if I go to Argentina instead of Chile. I would be able to get more interesting species for you there. Enclosed some other materials.

Sincerely,


Robert M. King
Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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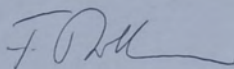
☎ (030) 314- 2252

Datum 26.10.1984

Dear Dr. King,

thank you very much for your letter, the corrections of the
Balsamorhiza paper, the identification of the vouchers (they
are from the Botanical Garden Berlin, grown there) and for the
taxonomic addition to the Bistropanthus paper. Of course it
may be more interesting to collect in Argentina, especially
there should be many from the tribe Mutisieae. I hope that
you will get help from the botanists there.

Kind regards



(F. Bohlmann)

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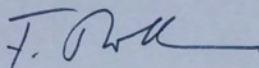
Datum 5.11.1984

Dear Dr. King,

thanks for the plant material which we got in good
condition (RMK 9317, 9318 and 9319).

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Kind regards

A handwritten signature in black ink, appearing to read 'F. Bohlmann', with a long horizontal stroke extending to the right.

(F. Bohlmann)

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Prof. Dr. R.M. King
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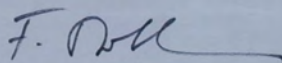
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Datum 12.9.1984

Dear Dr. King,

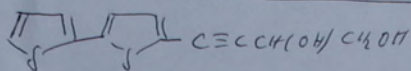
we have just finished the investigation of Bishopanthus
(see enclosed). As Phytochemistry likes to have some
taxonomic additions it would be nice if you or Robinson
could write some comments. Highly oxygenated sesquiterpene
lactones may be characteristic. They are so far isolated
from Cacosmia and Ferreyanthus.

Kind regards

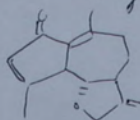
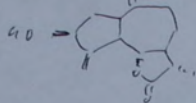
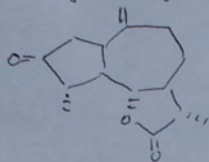


(F. Bohlmann)

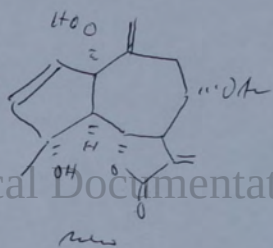
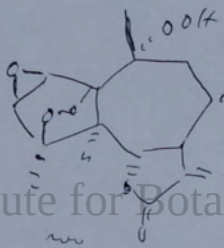
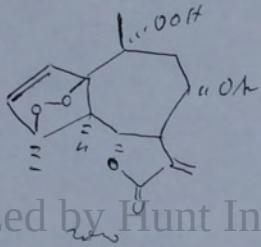
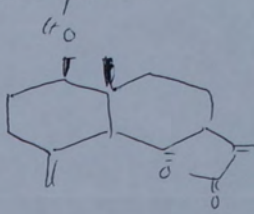
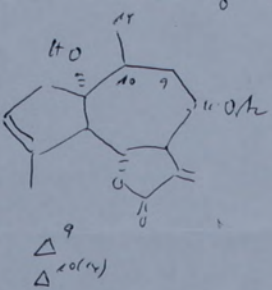
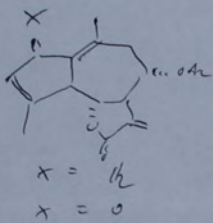
Bischofia soliceps H. Robinson



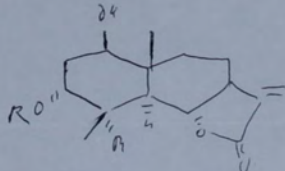
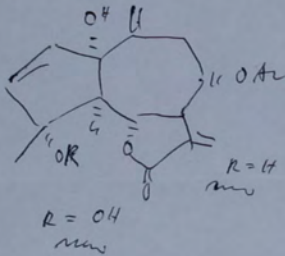
lipid + acetic
pigment, tannin
structure



from Glu acid
pectolomargaric
desmethoxy contains
in pectatin



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R = $COCHMe_2$
R = $COCH(Me)Et$

357-2546

December 5, 1984

Dear Dr. Bohlmann,

I am planning a trip to Argentina instead of Chile. The political situation in Chile has become impossible. In any event Argentina will make a good substitute, perhaps even better.

However, some of the same problems. It is going to be very expensive. It is very far from Washington. Hence, the cost of an air ticket is great. Renting a car is also very expensive. It may be more than \$500 a week! Prices were about the same in Chile. I don't see how I will get along on the usual amount. I will try, but I expect to need to ask you for more after I return. I thought that I should mention this to you now.

I wish that I had better news!

Sincerely,

Robert M. King

Department of Botany

357-2546

December 10, 1984

Dear Dr. Bollmann,

The names of the plants that I just sent you are:

RMK 9317 *Baccharis halimifolia* L.

RMK 9318 *Aster novae-angliae* L.

RMK 9319 *Liatris spicata* (L) Willd.

I would be most interested in learning the results of your study of the *Liatris* if it fits into your schedule.

Sincerely,

Robert M. King

Robert M. King

Department of Botany

357-2546

December 17, 1984

Dear Dr. Bohlmann:

Enclosed please find the list of names of the voucher specimens from Paraguay. I will also be sending a copy to the man in Paraguay. Hope that all is well with you.

Sincerely,

Robert M. King
Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
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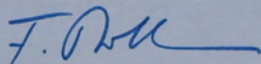
☎ (030) 314- 2252

Datum 27.12.1984

Dear Dr. King,

thank you very much for the list of species from Paraguay.
Some seem to be interesting. So far I only got a few of
them. The end of March we will be in the States. What about
a visit of the Smithsonian? I could come with Christa at
Monday, April 1th, on our way back to Berlin.

Kind regards



(F. Bohlmann)



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☐ (030) 314 2252

Datum 8th Feb 1985

Dear Dr. King,

Thank you very much for all the plant material which we have received today (18 parcels). I hope that there will be many interesting species. If possible you should send us at least some names which you already to start with. If you have a bill for the transport I could send you the expences. Also other additional expences I could try to get paid.

With kind regards

February 11, 1985

Dear Dr. Bolhmann,

I have returned from what I believe was a very good trip. I hope by now that most of the samples have arrived in Berlin. There is a slight chance that a bundle of herbarium specimens was sent to you in error. Please return it if you find it. Thank you. We will send you the names as soon as possible.

In regard to your trip to Washington. April 1 would be very good. Will you be spending only one day in Washington? Have you made hotel arrangements? Would you like to sightsee and see Washington? I could take you around town. Let me know. I look forward to your visit.

With kind regards,

Sincerely,

Robert M. King
Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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Datum 18.2.1985
Prof.Bo/Ri

Dear Dr. King,

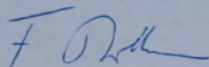
thank you for your letter. I am sure, that your trip was very successful. We are very busy with cutting and extraction of the plant material.

I have send you the missing Vouchers, but most of it already was cut. I hope the rest is still enough for identification.

I regret that in the meantime I have accepted already so many invitations for lectures during our trip to the States, that no time has left for a stop in Washington this time.

I hope I will be in the States again and that we then will have time for visit of the Smithsonian.

Kind regards



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Datum 27th Feb 1985

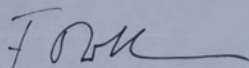
Dear Dr. King,

We got two further parcels last week and one yesterday. I think we now got them all. Enclosed the numbers for control. As mentioned previously RMK XX had no number and 9334 could be 9336 also? For both I send you vouchers.

We now have extracted all species, it was really a hard work but I am sure also you had a hard work to get all this material.

Thank you again and

kind regards



Encl.

357-2546

March 30, 1955

Dear Dr. Bohlmann:

Please find enclosed the list of names for the Argentine samples. As you can see, it is not complete. It seems that a number of my vouchers were lost. At least we cannot find them. I keep hoping that they will show up. Don't throw out the material yet.

In any event I think that what remains is good. I look forward to seeing your analysis.

Hope that your trip to the US was good.

Sincerely,

Robert M. King

Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

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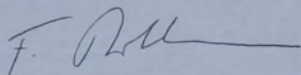
2252

Datum 4.4.1985

Dear Dr. King,

thank you for the reprints and the additional plant material
which we got in good condition. Is it also from Argentina?
I hope that all these species will give a lot of new
informations and compounds. If you already have some names
please let me know.

Kind regards

A handwritten signature in black ink, appearing to read 'F. Bohlmann', with a long horizontal stroke extending to the right.

(F. Bohlmann)

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. Robert M. King
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Washington, D.C. 20560
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Direktor: Professor
Dr. F. Bohlmann

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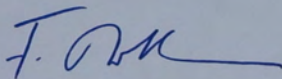
Datum 10.4.1985

Dear Dr. King,

thank you very much for the list of your Argentina
collection. There are a lot of interesting species
which surely will give many new informations. Enclosed
a list with those numbers where names are missing.

Digitized by Hunt Institute for Botanical Documentation

Kind regards

A handwritten signature in blue ink, appearing to be 'F. Bohlmann', written in a cursive style.

(F. Bohlmann)

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Datum 10th April

Dear Dr. King,

Thank you very much for the list of your Argentina collection.
There are a lot of interesting species which surely will give many
new informations. Enclosed a list with those numbers where
names are missing.

With kind regards



Encl.

April 20, 1985

Dear Dr. Bohlmann,

I sent you a list about 2 weeks ago. It must be lost in the mail.
I will make up another list and send it to you soon. Sorry.

Sincerely

Robert M. King

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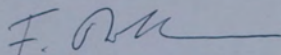
☎ (030) 314-2252

Datum 25th April 1985

Dear Dr. King,

Thanks for your letter. I have received your first list of species
and I wrote a letter already two weeks ago. I hope you got this letter
in the meantime (but see copy).

With kind regards

A handwritten signature in dark ink, appearing to be 'F. Bohlmann', with a long horizontal stroke extending to the right.

Encl.

April 29, 1985

Dear Dr. Bohlmann,

Thanks for your letter. I am glad to learn that you recieved the list of species for the collections in Argentina. As you must have assumed, I am very upset with the lost of some of my vouchers. I doubt that I will ever see the voucher specimens. However, I will try to get you some more names. Did you by any chance make any voucher for your herbarium? In looking over the collection I consider that the really good collections did not get lost. I am eager to see what results you get.

Sincerely,

Robert M. King
Department of Botany

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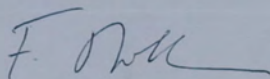
☎ (030) 314- 2252

Datum 2.5.1985

Dear Dr. King,

thanks for your letter. Unfortunately we have not taken
vouchers as mostly the material was not more useful to do
this. If you have still some ideas from what genera they
are it may be worthwhile to look at the chemistry to get
some informations from this side. In an other case we
could find out what was wrong just by having the chemistry.

Kind regards



(F. Bohlmann)

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Dr. F. Bohlmann

☐ (030) 314- 2252

Datum 3.5.1985

Dear Dr. King,

we have just finished an investigation of an old extract
from spring 1983 with the name Eupatorium altissimum
(collected by Dr. E.E. Hutton of EL King). Is this
really Eupatorium? The chemistry would be in agreement
with Eupatorium and not with Ageratina as we got the typical
heliangolides of the former. Some are new, therefore it would
be nice to know what it is.

Kind regards

F. Bohlmann

(F. Bohlmann)

If you have not yet told him so, the plant he
sent unnumbered that I thought might be Baccharis
grisebachii is probably B. polifolia Griseb.

Not
Ageratina
altissimum

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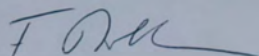
Professor
Dr.-Ing. X X X X X X X X X X

☎ (030) 314-4222 2252 Datum 30.5.1985

Dear Dr. King,

enclosed some first results on the Argentina species.
From Mutisia we got a lot of new compounds which, however,
related to those from other genera of the same subtribe.
Furthermore it is interesting that the closely related genera
Trichodine and Brachyclados both gave furocoumarins, typical
for Umbelliferae, a further like between the families! One
of the Senecio bracteolatus collections (9388) is very
different to the two others, can this be due to a variety? Is there
any possibility to find out what is with the so-called
"Eupatorium altissimum" from Dr. Hutton of Elkins (see last
letter)?. Most likely it was an other species or at least a
variety.

Kind regards



(F. Bohlmann)

May 31, 1985

Dear Dr. Bohlmann:

Thanks for your letter. I am sorry to be so long in answering it, but I was away from the office. Yes, the collection is Eupatorium altissimum. The unnumbered plant from Argentina that we thought was Baccharis ~~tristachia~~ is probably Baccharis polifolia Griseb.

Also enclosed is a typescript that was sent back to me.

Sincerely yours,

Robert M. King

Department of Botany

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Professor
~~Dr. Ing. Klaus Bräufcke~~
F. Bohlmann

☎ (030) 314-4298 XXX 2252

Datum 4.6.1985

Dear Dr. King,

thanks for your letter. The species you have identified as Eupatorium altissimum (= Ageratina altissima?) has no voucher No. and I do not know where collected. These date are now always wanted.

Kind regards

T. D. M.

(F. Bohlmann)

June 12, 1985

Dear Dr. Bohlmann,

Thanks for your letter. I am glad to learn that you are finding some interesting compounds in the material from Argentina.

We will check on the *Senecio bracteolatus* material for you later. The specimens are not available at the moment.

Regarding the material of *Eupatorium altissimum*, I cannot find the voucher at the moment. It may be possible to collect more of it later this summer. Let me know if it would be useful to you.

Enclosed is a letter from the National Cancer Institute that I hope you have the answer.

I will write later with the answers.

Sincerely,

Robt M. King
Robert M. King
Department of Botany

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Datum 20th June 1985

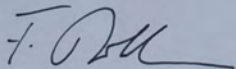
Dear Dr. King,

Thanks for your letter. Regarding E. altissimum I would like to hear from you whether this would be Ageratina altissima or perhaps an other species. As mentioned before it is collected by Dr. Hutton of Elkins. If he know where he collected this species it would be nice to get some material again to see whether the chemistry is the same and to see whether the identification was correct. From the desired compound from NIH unfortunately not enough is available. Of course we have send a lot of samples to the NIH, but mostly it is not enough.

Do you have any idea what to do with the material from Argentina where you have no names? If we would see from the chemistry what tribe or genus it could be - would this be helpful?

Can you have a look at the bad voucher which should be Vernonia cinerea?

With kind regards



Encl.

June 27, 1985

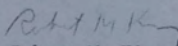
Dear Dr. Bohlmann,

Thanks for the typescripts and the note about *Eupatorium altissimum*. I have enclosed some suggestions about the typescripts that you may wish to consider.

Regarding the *Eupatorium altissimum* collection of Dr. Hutton. We cannot find a voucher for it. However, Dr. Hutton collected it in his backyard and will be able to collect another in September. It means that there will be a slight delay. We can even get more material for you if necessary.

With kind regards,

Sincerely,


Robert M. King

Department of Botany

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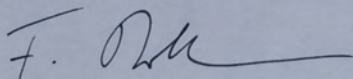
☎ (030) 314-2252

Datum 2nd July 1985

Dear Dr. King,

Thanks for your letter and the corrections to several papers.
As the genus Ageratina so far gave mainly no lactones it would be
nice to have a sample from Dr. Hutton to confirm the identity of
this species. Soon I shall send you results on the Argentina species.

With kind regards



July, 9, 1985

Dear Dr. Bohlmann,

Under separate cover I have sent to you a sample RMK 9490 which is a member of the genus *Silphium*. I will sent you the species later. Dr. Hutton of Elkins has sent you a sample of another species. You might want to work the two up together. My collection is from Maryland.

Here are some names of the samples that have no vouchers that we have been able to figure out.

- 9446 *Cyclolopis genistoides* Don
9448 *Baccharis salicifolia* (R.&P.) Pers.
9451 *Austrobrickellia patens* (Don ex H. &A.) K. & R.
9466 *Aster squamatus* (Spreng.) Hieron.
9468 *Austroeupatorium inulaefolium* (H.B.K.) K. & R.
9471 *Zinnia peruviana* (L.) L.
9472 *Praxelis clematidea* (Griseb.) K. & R.
9473 *Hysterionica bakeri* Hick.
9474 *Heterothalmus spartioides* Hook. & Arn.
9475 *Gaillardia megapotamica* (Spreng.) Baker var *scabiosoides* (Arn.) Baker
9478 *Austroliabum candidum* (Griseb.) R. & B.
9480 *Wedelia bupthalmiflora* Lorentz
9481 *Senecio brasiliensis* (Spr.) Less. ?
9485 *Senecio brasiliensis* (Spr.) Less. ?
9486 *Stevia achalensis* Hieron.
9487 *Flourensia campestris* Griseb.

There could be some errors here. If the chemistry does not agree, let us check again.

Enclosed are some suggestions regarding the typescripts that you recently sent.

From July 13 to July 27 I will be away on holiday in Colorado and Utah. I will collect you some chemical samples as I usually do on my vacations.

Sincerely,

Robert M. King
Department of Botany

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Dr. F. Bohlmann

☎ (030) 314-2252

Datum 24th July 1985

Dear Dr. King,

Enclosed I send you the paper on the lactones from the "Eupatorium altissium" collected by Dr. Hutton of Elkins. If you have got a voucher from him you could send this paper to Prof. Harborne (Phytochemistry).

Perhaps you have some corrections, especially if the name is wrong. In the meantime we have already investigated several species of your Argentina collection. Soon I shall send you further results. The sample of Stevia achalensis at least is really a Stevia as clearly followed from the chemistry. All is going slow as many new compounds have been isolated. Do you have plans for further collection trips?

With kind regards

F. Bohlmann

Encl.

August 5, 1985

Dear Dr. Bohlmann,

Thanks for your letter and the typescript on *Eupatorium (Ageratina)* *altissima*. If you do not mind, I will hold on to it until I can get a new voucher to name.

Under separate cover I have just sent to you 12 samples that I collected for you in Colorado and Utah. I think that a couple of them should really interest you.

My next trip that I am planning to take for you is to Australia. Right now I am still in the planning stage. One thing that I know is that it will be expensive but very good on results.

I hope that everything arrives in good condition.

Sincerely yours,

Robert M. King

Department of Botany

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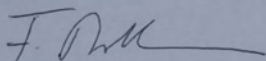
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Datum 15th Aug 1985

Dear Dr. King,

Thanks for your letter and the plant material which we got to day.
Surely it would be good to wait with the Ageratina paper. When you
have a new voucher you could name the species and send the paper
to Prof. Harborne. Surely a collection in Australia will be interesting.

With kind regards



August 19, 1985

Dear Dr. Bohlmann,

I hope that you have recieved the plant material that I sent to you sometime ago.

Here are the names of the plants.

- 9490 *Silphium trifoliatum* L. Maryland
9491 *Ratibida columnifera* (Nutt.) Woot. & Standl. Colorado
9492 *Heterotheca villosa* (Pursh) Shinnars Colorado
9493 *Rudbeckia laciniata* L. Colorado
9494 *Haplopappus fremontii* A. Gray Colorado
9495 *Chrysothamnus nauseosus* (Bilas) Britt. Colorado
9496 *Solidago petradoria* Blake Colorado a very unusual *Solidago*
9497 *Fallugia paradoxa* (D. Don) Endl. Utah not a comp
9498 *Tetradymia canescens* DC Utah
9499 *Machaeranthera pulveruleata* (Nutt.) Greene Utah
9500 *Senecio atratus* Greene Colorado
9501 *Grindelia perennis* A. Nels. Colorado

With kind regards,

Sincerely,

Robert M. King
Department of Botany

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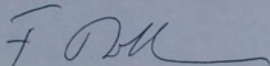
Datum 22.8.1985

Dear Dr. King,

Thank you very much for the plant material from Colorado and
Utah and your letter with the names.

We got a lot of new compounds from the Argentina collection.
Soon, I hope, I can send you results.

With kind regards



(Prof. F. Bohlmann)

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Datum 27.8.1985

Dear Dr. King,

can you give me the location of the collection of RMK 9239
(Heliopsis buphtalmoides) in Peru? This is wanted bei Planta
medica.

With kind regards

F. Bohlmann

(Prof. F. Bohlmann)

please also RMK 9018

there are small differences
in the constituents

September 11, 1985

Dear Dr. Bohlmann,

Thanks for your letter. The information that you need follows

RMK 9018 PERU: Ancash: along Peru highway #3 ca 1 km N of Monterrey.
Elevation ca 9000 ft.

RMK 9239 PERU: Amazonas: 12 km along road from Leimebamba SW towards
Celendin. Elevation ca 7000 ft.

I hope that this solves the problem.

Sincerely,

Robert M. King
Department of Botany

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Dr. F. Bohlmann

☎ (030) 314-2252

Datum 26. Sept. 85

Dear Dr. King,

Thanks for the plant material which we got yesterday. Enclosed
four copies of papers.

With kind regards

Encl.

September 30, 1985

Dear Dr Bohlmann,

The plant material (RMK 9502) that I sent you last week is *Aster puniceus* L. I hope that it arrived in good condition.

How is your analysis of the Argentine material coming?

Sincerely,

Robert M. King
Department of Botany

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Datum 30.9.1985

Dear Dr. King,

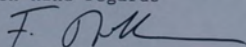
enclosed again a voucher of Vernonia cinerea from Malawi.

At least now there are some flowers. Could you please identify this material?

Have you got the vouchers from Paraguay (Dr. Schmeda-Hirschmann)? It would be nice to have the names as there are several interesting species.

Soon we will have finished the investigation of the Argentina species belonging to tribe Astereae. We got a lot of new compounds. Solidagopetradria is also chemically different from the others as it contains only one unique diterpene.

With kind regards


(Prof. F. Bohlmann)

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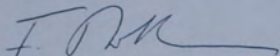
Datum 7.10.1985

Dear Dr. King,

Thanks for your letter and the Aster species which we got in good condition.

Enclosed a further paper on the Argentina material, another is nearly finished too (*Chilodactylon* and *Nardophyllum*). The chemistry of these genera is very close, do you see relationships? If this is the case you perhaps could write something about this for a paper.

With kind regards



(Prof. F. Bohlmann)

p.s. We are just investigating Baccharis Salicifolia from four different places in Argentina (RMK 9344, 9429, 9459 and 9448). As the chemistry of the first three differs slightly the locations (just the area) would be interesting. The last one (9448) which you have named preliminary, surely is something else. It would be nice to have also the location for the Baccharis species: 9376 and 9377, 9333 and 9348, 9355 and 9362, 9398, 9374, 9339, 9489, 9380, 9342 and *B. polifolia*. Perhaps there will be a geographical variation.

October 21, 1985

Dear Dr. Bohlmann,

Thanks for your letter and the typescripts. I will look them over and report later.

The specimen that you sent is *Vernonia cinerea* and is enclosed.

We have now recieved a new voucher fron from West Virginia and the species is *Eupatorium altissimum*. Enclosed is the typescript with suggested comments.

Enclosed also is the list of names that Schmida sent to you. Sorry for the delay.

Sincerely,

Robert M. King

Department of Botany

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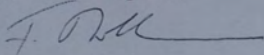
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Datum 25.10.1985

Dear Dr. King,

Thank you very much for your letter and the identification of the Vernonia and the Eupatorium species. The chemistry of the latter really differs from that of Ageratina. Furthermore I have to thank for the identification of all the Paraguay species. So far I have got only a few of them but several look very interesting. We are still very busy with the Argentina material. You already have definitive plans for the Australia trip?

With kind regards



(Prof. F. Bohlmann)

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Dr. F. Bohlmann

☎ (030) 314- 2252

Datum 29.10.1985

Dear Dr. King,

Thank you very much for the material of *Eupatorium altissimum*
which we got today.

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With kind regards

(Prof. F. Bohlmann)

November 5, 1985

Dear Dr. Bohlmann:

Thanks for your letter and the typescripts. I will send you the names of the *Baccharis* soon.

Enclosed are some comments on the typescripts that you may want to consider.

We have had a request for the name of a specimen of *Solidago canadensis* that you published on several years ago (*Phytochemistry* 19: 2661. 1980.). The specimen was cited as voucher 78/1199. Would you please send us this specimen if it is in your herbarium?

Sincerely,

Robert M. King
Department of Botany

November 7, 1985

Dear Dr. Bohlmann,

The localities of *Baccharis salicifolia* are

- 9344 Rio Negro: 70 kms W of Rio Colorado, 250 ft
9429 Mendoza: 11 kms NW of San Rafael, 2200 ft
9459 Catamarca: city limits of Catamarca, 1600 ft

other *Baccharis* species

- 9376 Neuquen 1800ft female

- 9377 Neuquen 1800 ft male

- 9333 Rio Negro 36 kms W of Rio Colorado, 200 ft

- 9348 Rio Negro: 7 kms E of Choele Choel, 375 ft

-
- 9355 Rio Negro: 2 kms W of Darwin, 200 ft

- 9362 Rio Negro: 4 kms E of Villa Regina, 800 ft milky sap

-
- 9398 Neuquen: Banos de Copahue, 4600 ft

- 9374 Neuquen: 20 kms S of Confluencia, 2000 ft

- 9339 Rio Negro: 36 kms W of Rio Colorado, 200 ft

- 9489 BRASIL: Parana: Foz de Iguacu, 600 ft

- 9380 Neuquen: 4 kms E of Junin de los Andes, 2300 ft

- 9342 Rio Negro: 70 kms W of Rio Colorado, 250 ft

Baccharis polifolia Argentina; without precise locality

Thanks for your letter of October 25, 1985. I am still working on an Australian trip. I am trying to get information together on places, times, costs, etc. I hope to get a budget to you perhaps this month. In the meantime I would like to suggest a trip to Bolivia. There are some people that I know there that will make things easier. Also, there are still many genera and species of the tribe Mutisieae that we have not sampled. Of course, there are many other genera as well.

page 2

I would like to suggest that I go there for the month of February.

Please let me have your comments.

Sincerely,

Robert M. King

Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R.M. King
National Museum of
Natural History
Smithsonian Institution
WASHINGTON, D.C. 20560
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Institut für
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Direktor: Professor
Dr. F. Bohlmann

☎ (030) 314- 2252

Datum 11.11.1985

Dear Dr. King,

we are still working on the Baccharis species from Argentina. Probably it will be worthwhile to discuss the chemotaxonomy. I have seen in the Engler-Prantl that there are seven sections. Do you have literature where the single species are placed or any other system of differentiation? Enclosed a list of all species which have been studied chemically and those we still have. If possible, it would be nice to have perhaps groups for them. We then could see whether there is any correlation with the chemistry.

With kind regards

F. Bohlmann

(Prof. F. Bohlmann)

p.s.: Thanks for your two letters which I just received, for the corrections and for the locations of the Baccharis-species. Of course, it will be worthwhile to collect again in Bolivia (not only tribe Mutisieae). As you may have noticed we got interesting results from all kinds of genera.

The voucher of Solidago canadensis we could not find.

Tarifa

November 18, 1985

Dear Dr. Bohlmann,

Here are some updated names for your records.

On two specimens that you collected in Mexico in 1984, both were determined as *Senecio cyclophyllus* Greenm.

Voucher # 3 Chihuahua = *Senecio quebradensis* Greenman

Voucher # 11 Nuevo Leon = *Senecio coahuilensis* Greenman

Sincerely,

R M K
Robert M. King

Department of Botany

November 19, 1985

Dear Dr. Bohlmann,

Thanks for your letter of November 11. Sorry to learn that the voucher of *Solidago* cannot be found. With regard to your request for a natural grouping of the species of *Baccharis*, we will work on it and try to get it to you as soon as possible. Right now it seems that nobody has updated Engler & Prantl.

I will plan to go to Bolivia next year. Of course, I will collect all tribes and genera. Would you then send me the usual amount that is \$5000 as soon as convenient? It may not cost that much but then it might cost more. I will as usual try to get some money here.

Sincerely,

RM King

Robert M. King
Department of Botany

TU Berlin · IOC · Sekr. C 3 · Straße des 17. Juni 135, D-1000 Berlin 12

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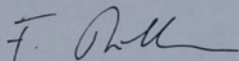
☎ (030) 314 2252

Datum 22th Nov 1985

Dear Dr. King,

Thanks for your two letters. I have already ordered the remittance of the money which, I hope, you will get soon. The chemistry of Baccharis species is interesting but we still have not finished all species. The differences in the B. salicifolia species are remarkable (9429, 9448, 9384, 9459)
I hope you will find a way of grouping the genus.

With kind regards



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Dr. F. Bohlmann

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2252

Datum 9.12.1985

Dear Dr. King,

the referee of the paper "Diterpenes from the Subtribe Solidaginae"
like to have the provinces where you have collected RMK 9464, 9370,
9346, 9411, 9400, 9375, 9373.

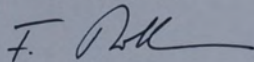
OK

They further like to change the names of Grindelia perennis to G. squarrosa (Pursch) Dunal var. quasiperennis Lunell and Solidago petradora Blake to Petradora pumila (Nutt.) Greene. Is this o.k.?

OK

If it is no problem you perhaps should just add the provinces in
the list of Argentina species, but in the moment we only need the
seven ones (s.a.).

With kind regards



(Prof. F. Bohlmann)

- 9464 Catamarca
9373 Neuquen
9375
9400

9346 Rio Negro
9370 Neuquen
9411

December 14, 1985

Dear Dr. Bohlmann,

Thanks for your letters. Thanks also, for the check which arrived yesterday.

Enclosed is the grouping of Baccharis that you requested. I hope that it is acceptable.

I am continuing to make plans for the Australian collecting trip. The trip will have to take place during August and September as that is the best time to collect.

I hope that you and your family have a very Merry Christmas and a Happy New Year.

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Sincerely,

R. M. King
Robert M. King

December 20, 1985

Dear Dr. Bohlmann,

The provinces that you requested are:

RMK 9464 Catamarca

9370 Neuquen

9846 Rio Negro

9411 Neuquen

9400 Neuquen

9375 Neuquen

9373 Neuquen

The name changes as suggested by the referee are o. k.

I will send the other list of provinces later.

Sincerely,

Robert M. King

Department of Botany

TECHNISCHE UNIVERSITÄT BERLIN

Fachbereich 5

INSTITUT FÜR ORGANISCHE CHEMIE

Direktor: Professor Dr. F. Bohlmann

BERLIN

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Telefon: (030) 314- 2252

Berlin, den 6.1.1986

Dr. R.M. King
National Museum of Natural History
Smithsonian Institution

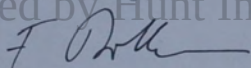
Washington, D.C. 20560

U S A

Dear Dr. King,

Thanks for your letter of December 31. I hope you have got our
vouchers of your West Australia material. Are they usefull?
Have you got the money?

With kind regards



(Prof. F. Bohlmann)

January 8, 1986

Dear Dr. Bohlmann,

Thanks for your letter of December 23, 1985.

We checked the specimens of *Baccharis* that you mentioned. Your chemistry is correct! RMK 19459 is *Baccharis pingraea* DC and RMK 9344 is probably also *B. pingraea* DC. The two species are very similar.

I am planning to go to Bolivia in February but I am having trouble in making the arrangements.

RMK
Sincerely,

Robert M. King

Department of Botany

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Datum 14.1.1986

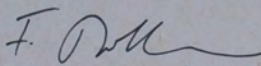
Dear Dr. King,

Thank you very much for your letter with changed names of two
Baccharis species.

The situation is still somewhat confusing. We have taken RMK 9344,
9459 and also 9454 together in the paper though there are also
differences. But RMK 9339 (B. pingraea?) differs remarkably from
the chemistry of the two former but is very similar to RMK 9429
(B. salicifolia?).

If you do not see a clear solution we perhaps should not change
the names in the paper. I hope you can solve the problems with
your trip to Bolivia.

With kind regards


(Prof. F. Bohlmann)

Feb 5, 1986

Dear Dr Bohlman

I had an awful accident
a month ago. I broke my
hip in a bad fall. Needless
to say I did not go to
Bolivia. I will now come into
the office once a week on crutches.

If you need to reach me, my
home address is

Apt 113
2100 Washington Ave.
Silver Spring, MD
20910

I have been busy proofreading the
books on the E upatone. Hope that
everything is going well for you.
Sincerely

March 6, 1986

Dear Dr/ Bohlmann,

Please excuse the delay in answering your letter. My broken leg does slow me down.

Enclosed is part of one typescript with some suggested changes. In the papers on *Eupatorium altissimum*, would you please acknowledge the assistance of Dr. E. E. Hutton in West Virginia?

Regarding my injury, I plan to come to the office at least once or twice a week. I am still on crutches, but I hope to start using a cane in 3 weeks. I am still planning to go to Australia in August.

I hope that you are recieving the material that Harold Robinson had sent to you from Australia.

Sincerely,

Robert M. King

Department of Botany

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Dr. F. Bohlmann

☎ (030) 314-2252

Datum 1. 4. 1986

Dear Dr. King,

We have been for some time in Portugal, just for holidays.
Thank you for your letter and the corrections of the Nassauviinae
paper. I hope that your leg soon will be o.k. These things are
really bad. The material from Australia we have gotten in good
condition.

With kind regards

April 7, 1986

Dear Dr. Bohlmann,

I am writing you to bring you an update on my health and to let you know of my plans. Right I am able to come back to work. I still walk with crutches, however. My doctor has said that I will soon be well. With that in mind, I have planned a collecting trip to Australia for August and September. I plan to spend 6 weeks in Western Australia and 2 weeks in South Australia. This trip is planned for 8 weeks in that it costs so much to get there that I should stay a longer time. Considering what Dr. Robinson was able to get you in New South Wales and in Queensland, perhaps we should be able to get a good sample.

Now for the cost. If the trip lasts 8 weeks it will cost over \$10,000. If I spend only 6 weeks it would be somewhat less, but not in a significant amount. The big cost is transportation and shipping material to you in Berlin. Of course, I think the trip is worth it. Without it there would be a large gap in our knowledge.

I already have \$5,000 from you and would need another \$5,000 for the trip. I will try to get money from here also.

I have given you a lot to think about. and will be very eager to learn what you think.

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Best regards,

Sincerely,

Robert M. King

Department of Botany

May 12, 1936

Dear Dr. Bohlmann:

Please excuse the long delay in answering your letter but I was away from my office.

It was good to learn that you will be able to send \$3,000 more for the trip to Australia. I will do my best to get the remaining money that is needed. Otherwise, I can cut some corners or try to omit some things.

Have you finished with all of the material that I collected in Argentina? I collected a lot of the genus *Chuquiraga* and have not seen any of your results on it.

I also wanted to ask if you have ever investigated the species *Eremothamnus arlothianus* O. Hoffm. from Luderitz Bay? in SW Africa. I think that we should certainly study it if you already have not. I would suggest that you write to

Dr. M.A.N. Muller, Curator and Officer in charge
S. W. A. Herbarium, Agricultural Buildings
83 Leutwein Street
Private Bag X13184, 9000 Windhoek
SOUTH WEST AFRICA

I believe that this species is very important as it has been given tribal by Robinson and others.

My leg continues to improve and I now walk without crutches.

Sincerely,

Robert M. King
Department of Botany

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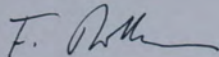
☎ (030) 314.2252

Datum 16th May 1986

Dear Dr. King,

Thanks for your letter. The species from Argentina we have now nearly finished. Unfortunately the chemistry of Chuquiraga was not exciting, all species only gave lupeol and its acetate. This seems to be characteristic for the whole subtribe. So far only accumulation of triterpenes was observed (Barnadesia 5 sp., Chuquiraga 8 sp., Dasyphyllum 2 sp., Schlechfendahlia 1 sp.). But in a few genera placed in the Gochnatiinae we observed the same: Chimantaea 2 sp., Hyalis 1 sp., Oldenburgia 1 sp., Quelchia 1 sp., Stomatochaeta 1 sp.. But this is all unpublished. If you like you could prepare a short report in Phytologia. As in other cases there is the question: Is this an indication that these are old genera which have lost the ability of producing the usual large variety of compounds or just the opposite. Thanks for the address of Dr. Müller in Windhoek. We shall try to get material. If you know other people in South Africa it may be interesting also to contact them as there are still many interesting species. It was nice to hear that your continues to improve.

With kind regards



July 1, 1986

Dear Dr. Bohlmann,

I HOPE THAT YOU RECIEVED THE MS WITH THE SUGGESTED CHANGES THAT I sent to you earlier. Today I sent to you a chemical sample for your work # RMK9503. I hope that it arrived in good condition.

On another matter, could you send me a reprint of all papers not published in Phytochemistry that have my name on them. This is needed for my records. You used to send a list at the end of the year but I did not recieve one tis last year.

On still another matter, when do you actually retire? I wanted to know when we actually have to complete the chemical analysis for the summary work?

My leg continues to improve. It certainly has taken a long time.

Sincerely yours,

Robert M. King

Department of Botany

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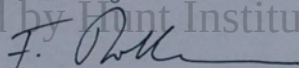
2252

Datum 8.7.1986

Dear Dr. King,

Thanks for the plant material (RMK 9503) which we got today in good condition. Do you have a name for it?

With kind regards

A handwritten signature in dark ink, appearing to read 'F. Bohlmann', with a long horizontal stroke extending to the right.

(Prof. F. Bohlmann)

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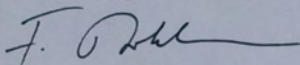
☎ (030) 314- 2252

Datum 10.7.1986

Dear Dr. King,

I have just looked at all chemical literature on Eupatorium species. In many cases I could find out from your papers what are the new genera but a few are not clear (s. enclosed). Could you have a look on these species and tell me where you have placed them? If possible it would be nice to have a list of all real Eupatorium species.

With kind regards



(Prof. F. Bohlmann)

July 21, 1986

Dear Dr. Bohlmann:

Thanks for the check and the list of publications. I will send you the name of the plant as soon as it is out of the dryer. Since you will retire in the fall of 1989 it means that we will be able to get much done.

I leave for Australia on ~~July~~ August 27,, With a bit of luck I should be able to get a lot of good things.

Sincerely,

Robert M. King
Department of Botany

July 23, 1986

Dear Dr. Bohlmann,

Thanks for your letter. Enclosed is your list of Eupatorium species and what they equal in our new system. There are some that we could not determine. The book on the Euoatorieae is in proof and will be out later this year. It will contain all the species.

Sincerely,

Robert M. King

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Datum 24.7.1986

Dear Dr. King,

Thanks for your letter. We also hope that you will have luck during your collection in Australia. The species you send us (9503) probably is a *Centaurea*? We already have done the chemistry.

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With kind regards

(Prof. F. Bohlmann)

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Datum

28.7.1986

Dear Dr King,

Thanks for your letter and the names. We have just finished an investigation of RMK 9483. The chemistry indicates that it may be again *Baccharis*. As there are some new compounds I would like to write a note on it. Can we say it is a sofar unidentified *Baccharis* species? May be you can remember something. There were 200 g root and 400 g aerial parts. Neighbouring numbers: 9485 *Senecio brasiliensis*, 9486 *Stevia achalensis*, 9487 *Flourensia campestris*, 9489 *Baccharis punctulata*.

With kind regards

(Prof. F. Bohlmann)

July 30, 1986

Dear Dr. Bohlmann,

We are having an international grass conference here this week and have a number of visitors from Brazil. One of them has invited me to go with him on a field trip to Matto Grosso in Brazil. I am very excited about the chance for such a trip. I had not expected to get another chance to collect in Brazil because of their such strict rules on collecting and other redtape. However, this man has the right connections. Such a trip would take place in January or February of next year. It would be a chance to get a number of good composites for you. I realize that the timing is not so good. However, do you think that you could get the money?

Let me know what is possible.

Sincerely,

Robert M. King

Department of Botany

August 18, 1986

Dear Dr. Bohlmann,

Thanks for your letter of July 28.

I am sorry to say that there is no way that I can give you a name for the plant # RMK 9483. All the vouchers were lost. If you really think that the chemistry is that of a *Baccharis* I suppose that you could report it as *Baccharis* sp. without voucher. I dont know wjat else to tell you.

Sincerely,

Robert M. King

Department of Botany

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Datum 22.8.1986

Dear Dr. King,

Thanks for your letter. I am more or less sure that RMK 9483
is a Baccharis species. I thought you may remember from the
aerea and the neighbouring species. But it is not very im-
portant.

Are you leaving for Australia? What about the trip to Brazil?

I should apply early enough for the money.

With kind regards

(Prof. F. Bohlmann)

October 4, 1986

Dear Dr. Bohlmann,

Just a short note to let you know that I had a very good trip to Australia. I was able to collect about 108 samples for you. These should have already been sent to you. As you will note some of the plant species were very small, hence the samle was very hard to collect a large amount.

I hope to be able to send you the names soon. I just need to have the plant vouchers arrive.

Regarding the fieldtrip to Brasil, I am planning to go in February. Theproblem will be in getting a permit.

I hope to hear that everything arrived in good condition.

Sincerely

Robert M. King

Department of Botany

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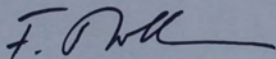
2252

Datum 9.10.1986

Dear Dr. King,

Thanks for your letter and the plant material which we got today.
As we have been collecting in South Africa last month we now have
a lot of material. We now also have the Eremothamnus species and
more than 200 further species from there, but we have so far only
a few names.

With kind regards



(Prof. F. Bohlmann)

Enclosed one outside of a species
which had no number!

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Datum

22.10.1986

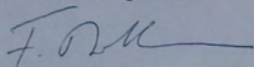
Dear Dr. King,

We just have studied a sample of Vernonia scorpioides, originally collected from Bahia, Brasil, which we got from Prof. Dr. S.B. Jones, University of Athens.

Some years ago we have studied the same species from Bolivia which you have collected (RMK 7628). The chemistry of these two samples differs and the new investigation gave a very interesting glaucolide, important for the absolute configuration of these lactones.

Could you try to find a way to compare the vouchers? Perhaps one of the species is a subspecies? I also write to Prof. Jones.

With kind regards



(Prof. F. Bohlmann)

October 24, 1986

Dear Dr. Bohlmann,

Thanks for your recent letter. I am glad to learn that you had a good trip to South Africa. My trip to Australia was also a success.

If you could give me a list of the numbers that you have recieved I could get the number of the specimen in question. Also, if you could tell me if you have both shipments.

Have you requested the funds for Brasil yet?

My vouchers have not arrived yet. I will send you the names as soon as possible.

Sincerely,

Robert M. King

Department of Botany

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November 5, 1986

Dear Dr. Bohlmann,

Thanks for your letter. I telephoned Dr. Jones regarding the material of *Vernonia scorpioides*. He said that they were busy but would send me their voucher sometime. I will get to work on it as soon as he sends the material.

I hope by now that you have received the material that I collected in Australia. I still have not received my vouchers yet. I will send you the names as soon as they arrive.

Sincerely,

Robert M. King
Department of Botany

November 12, 1986

Dear Dr. Bohlmann,

Thanks for your letter. I am pleased to learn that your samples arrived from Australia. The vouchers have not arrived here in Washington yet. Perhaps they will soon. In any event it is good that you made vouchers there.

I am still planning the trip to Brasil but I am having problems with a permit. Sometimes the latins are impossible to work with!

I have a request to make of you. When I was in South Australia I had a lot of help from A Dr. L. Haegi. ~~EsasaidImwouldtask~~ would help him in his work if his name appeared on the papers from the material collected in South Australia. I know that this is a big request but it is important. If necessary it would be better to put his name instead of mine. I am sure that he will collect more material for you. In case you decide to include him would you cite him as:

L. Haegi
Botanic Gardens, Adelaide
South Australia
North Terrace

I have had a request from Perth regarding a collection of mine, namely #9581. Would please work this one to see what it contains? Thanks so much. I seems that they originally thought that this collection was as Olearia but now believe that it should be transferred to the genus Minuria. I have some other collections of Minuria that you might want to examine. There are also a number of other Olearias.

Sincerely,

Robert M. King
Department of Botany

November 26, 1986

Dear Dr. Bohlmann,

Just a short note to let you know that I would like to go to Bolivia instead of Brazil next year. The reason is that the Brazilains are taking forever in granting me a permit. I have decide to try to go in February of 1988 if that is all right with you.

I still do not have my vouchers from Australia. Hence I have no names to give you. I told them to send them air mail, but apparently they did not.

Sincerely,

Robert M. King

Department of Botany

December 9, 1986

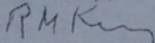
Dear Dr. Bohlmann,

Thanks for your letter Dec. 2nd. I am glad that you agree that Bolivia would be good. I am planning to go in January. I have a contact there and getting a permit is of no trouble. It would be good if you could send the money soon.

I hope that you have recieved the list of name for South Australia. I feel very bad about the material from Western Australi. I stil do not have the vouchers and hence no names to send you

I wonder if you have ever studied the species *Bartlettina sordida* ? I could probably get some seed of it for you.

Sincerely,



Robert M. King

Department of Botany

December 10, 1986

Dear Dr. Bohlmann,

Just a short note to inquire if you have ever studied material of the genus *Corymbium* from South Africa. It will be interesting to see how it relates to the genus *Vernonia*.

Thanks for the reprints.

Sincerely,

December 12, 1986

Dear Dr. Bohlmann,

The specimen that was sent by Dr. Jones in Georgia appears ~~tpogbed~~
Vernonia scorpioides to me. The species is a bit variable.

I think that you can publish as such.

Sincerely,

Robert M. King

TECHNISCHE UNIVERSITÄT BERLIN

Fachbereich 5

INSTITUT FÜR ORGANISCHE CHEMIE

Direktor: Professor Dr. F. Bohlmann

BERLIN

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, 1000 Berlin 12

Dr. R.M. King
National Museum of Natural History
Smithsonian Institution

Washington, D.C. 20560

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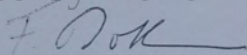
Telefon: (030) 314- 2252

Berlin, den 16.12.1986

Dear Dr. King,

Thanks for your letter concerning the Vernonia species. What we still do not know is whether your old voucher (RMK 7628) is identical with that of Jones.

With kind regards



(Prof. F. Bohlmann)

December 31, 1986

Dear Dr. Bohlmann,

Thanks for your letter of December 16. Sorry that I failed to answer the question. Both collections are of *Vernonia scorpioides*. The species is sometimes variable but both collections were of the typical form. I will try to get more of the species in Bolivia.

I hope that you recieved my earlier letters. I wish you all a Happy New Year.

Sincerely,

Robert M. King

Department of Botany

January 20, 1987

Dear Dr. Bohlmann,

Thanks for your letter..and the money. The vouchers have also arrived. However, since I am about to leave for Bolivia I doubt that I will be able to get much done .

Sincerely,

Robert M? King

Department of Botany

February 20, 1987

Dear Dr. Bohlmann,

By now I hope that you have received the plant material that was sent to you from Bolivia. I had to return early because I was very sick with altitude sickness and stomach problems. I am however, planning to go to Costa Rica in March. I wonder if you think it would be possible for you to write to Professor Castro requesting that he could help me while I was there. What I would need is someone that could help me with the collecting of the chemical samples. If the person could drive it would allow me to look for plants.

I hope that you have received the list of names from South Australia. I have received a cable from Western Australia informing me that the vouchers were sent to me by error surface mail. I have found these people to be very unprofessional and believe that if you wrote to them explaining the problems of not having the name have caused. You should request that they send you the names based on the duplicate set that I left with them. It should be the least that they can do.

The person to write is

Dr. John Green, Chairman
Western Australian Herbarium
Department of Agriculture
George Street
South Perth
Western Australia, AUSTRALIA

Enclosed is a copy of a letter that I received from Venezeul. I wonder if there is anyway that we could work with them.

Sincerely,

Robert M. King

TECHNISCHE UNIVERSITÄT BERLIN

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Telefon: (030) 314- 2252

Berlin, den 23.2.1987

Dr. R.M. King
National Museum of Natural
History

Smithsonian Institution
Washington, D.C. 20560

Dear Dr. King,

Prof. Bohlmann is on holidays at the moment. But as Prof. Castro is at Berlin just now I told him about your request. He gave me his address and the name of a colleague you can get in touch with when you are in Costa Rica. Prof. Castro will be there from the 8th of March and help you.

Prof. Dr. Victor Castro
Universidad de Costa Rica
Escuela de Química
San Jose
Costa Rica
Tel. 24 09 02

Dr. Luis Poveda
Herbario Nacional

With kind regards

M. Lehmann

M. Lehmann
(Secretary)

Dear Dr. King,

we are just back from holidays,
I therefore can only answer you now.
First of all thanks for your letters
and those of Dr. Robinson on the Urosalpinx
problems, for the corrections of papers and
the plant material. It is a pity that
you got ill. If you are not planning
to go to Costa Rica you may be able
get help from Prof. V. Castro, Dept. of Chem.
University San Jose. We have a long
cooperation with him on Compositae and he
also knows a botanist from the University very
well. If you would go also to Panama
you may be able get help from Prof. F. P. de
Chemistry Dept. of the University. I hope
that you will get this letter early
enough.

Best regards

F. Bohlmann

March 23, 1987

Dear Dr. Bohlmann,

Thanks for your letter and the information. I am planning to go to Costa Rica in mid April. I have been looking over lists of Costa Rican plants and I think that we can get a number of interesting things for you. I hope to send you the names for the Bolivian plant in about a week. I finally have recieved a letter from Western Australia whic seems hopeful. They have indicated that they will send a list of names soon.

Would you please send me a copy of the Cratystylis paper for my records?

I was pleased to learn that you are giving a paper on Vernonia chemistry. However, I do not plant to go to the congress because of the high cost. 500 marks to register ! !

Sincerely,

Robert M. King

Dr. R. M. King
National Museum of
Natural History
Smithsonian Institution
Dept. of Botany
Washington, D.C. 20560
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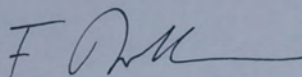
☎ (030) 314-2252

Datum 30th March 87

Dear Dr. King,

Thanks for your letter. Enclosed a copy of the Cratystylis paper which gave some interesting compounds. Yesterday we got plant material which was send by Mr. Solomon from Bolivia, probably your material? If is a pity that can not visit the congress but it is really expensive. I hope you will get some interesting species from Costa Rica. Prof. Castro knows what has been studied already.

With kind regards



Encl.

April 8, 1987

Dear Dr. Bohlmann,

Thanks for your letter and the copy of the Cratystylis paper/
I am glad to learn that the material from Bolivia has arrived. My
vouchers are here and I should be able to send you the names soon.

I go to Costa Rica on April 18, and hope to get you some interesting
material. I have received a letter from Prof. Castro that said he was eager
to help.

Regarding the Western Australian material, would you please write a
letter to Dr. Paul Wilson, Western Australian Herbarium, Department of
Agriculture, George Street, South Perth, Western Australia 6151,
Australia and ask him for the names of my collections. These are really
incredibly unprofessional people. I have also requested the information.
I think that we need to keep up the pressure on them. They seemed like decent
people when I was there and promised me that they would send the vouchers.

Sincerely,

Robert M. King

Robert M. King

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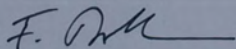
Datum 13.4.1987

Dear Dr. King,

Thanks for your letter. I hope you will get interesting species from Costa Rica. I already have written to Perth and I hope they will send the names. Our material was no more useful? I also have some problems to get the names from our collections we did in South Africa though the botanists have promised to do it.

I got a letter from Dr. Solomon who send us material from Bolivia. He seems to be willing to collect more. I sent him a list of desired species.

With kind regards,



(Prof. F. Bohlmann)

May 22, 1987

Dear Dr. Bohlmann,

I am writing to tell you that I had a good trip to Costa Rica. I must say that it was very difficult to collect plants that Victor Castro had not already collected. Victor is keeping the material with him and will bring it to Berlin next year.

I want to tell you how much help Victor gave me while I was there. I think you are very fortunate to have such a good chemist and person to work with you. I cannot compliment him too much.

Enclosed is the list of plants from Bolivia. I am pleased to learn that Dr. Solomon is collecting material for you.

Sincerely,

R M K
Robert M. King
Department of Botany

R.M.King Bolivia 1987

- 9634 *Chromolaena tunariensis* (Hieron.) K & R
9635 *Verbesina semidecurrens* O. Kuntz
9636 *Viguiera procumbens* (Pers.) Blake
9637 *Stevia*
9638 *Pluchea fastigiata* Griseb.
9639 *Senecio rudbeckiaefolius* Meyen & Walp.
9640 *Stevia yacomensis* Hieron.
9641 *Stevia samaipatensis* B. L. Robinson
9642 *Baccharis trimera* (Less.) DC.
9643 *Vernonia asteriflora* Mart. ex DC.
9644 *Baccharis dracunculifolia* DC.
9645 *Chromolaena connivens* (Rusby) K & R
9646 *Ageratina azangaroensis* (Sch. Bip. ex Wedd.) K & R
9647 *Mutisia acuminata* Ruiz & Pavon
9648 *Coreopsis fastigiata* HBK
9649 *Stevia boliviensis* Sch. Bip. ex Rusby
9650 *Baccharis ulicina* Hook. & Arn.
9651 *Campovassouria cruciata* (Vell.) K. & R.
9652 *Kaunea lasiophthalma* (Griseb.) K. & R.
9653 *Mikania cordifolia* (L. f.) Willd.
9654 *Bejaranoa balansae* (Hieron.) K. & R.
9655 *Stevia sarensis* B.L. Robinson

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Washington, D.C. 20560

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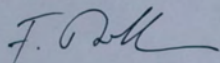
Datum

29.5.1987

Dear Dr. King,

Thanks for you letter and the list of the Bolivia species.
I am very pleased to hear that you had a good time in Costa
Rica with Victor. We already now have many, many extracts to
work on. Therefore the results are coming slow.

With kind regards

A handwritten signature in black ink, appearing to be 'F. Bohlmann', written in a cursive style.

(Prof. F. Bohlmann)

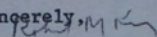
June 22, 1987

Dear Dr. Bohlmann,

Thanks for your recent letter. It is good to know that you have plenty of material to work on.

I am writing to tell you of my plans for a collecting trip to Mexico. Mexico as you probably know is one of the richest areas in the world for many genera and species of Compositae. The best time to collect in Mexico is at the height of the flowering season. Hence, with your agreement I will plan to collect in October of this year.

I realize that you may have plenty of samples stored up now but I think it is wise to get this material when we can.

Sincerely, 

Robert M. King
Department of Botany

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Dr. R.M. King
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Datum 26.6.1987

Dear Dr. King,

Thanks for your letter. Surely still many Compositae are in Mexico. However, you may have troubles to get the allowance. As we are in cooperation with Prof. Dr. X.A. Dominguez, Inst. Tecnologica y de Estudios Superiores de Monterrey, he may help, if he also in this case could be a coauthor.

With kind regards

F. Bohlmann

(Prof. F. Bohlmann)

p.s. We are just working on Skovia. Can you try to get the full name for RHK 9637? It contains several new lactones and therefore the name is important!

July 8, 1987

Dear Dr. Bohlmann,

Thanks for your letter of June 26.

In regard to the proposed Mexico trip, I see no reason not to work with Dr. Dominguez in Monterrey. In fact I think that it is probably the political thing to do. At least it will be more difficult for them to feel exploited. It might also be possible for me to leave the samples with Dominguez to do the early processing before sending it to Berlin for. I am thinking of the situation as I did with Victor in Costa Rica. I understand from Victor that he will bring the samples with him to Berlin next March.

Please let me know soon about the money so that I can put the trip on my calendar. I have been noticing what has been published on Mexican species and I believe that we have hardly started on what is there.

I will work on the Stevia and try to give you a name.

Sincerely,

Robert M. King

Department of Botany

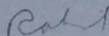
August 10, 1987

Dear Dr. Bohlmann,

I am writing to you again in regard to the proposed trip to Mexico. I do not know whether you recieved my letter of July 8th or not. In any event I neet to know soon your answer about the trip. As I told you earlier there are so many genera and species there to get. and also October is the best month.

Hope to hear from you very soon.

Sincerely,



Robert M. King

Department of Botany

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National Museum of
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Smithsonian Institution
Washington, D.C. 20560
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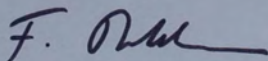
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Datum 10th Aug 87

Dear Dr. King,

During the Botanic Congress I have heard two lectures concerning the systematics of Compositae which seem to be of interest as both came to the conclusion that Barnadesiinae should be separated from Mutisieae as a separate tribe or even as a subfamily which should be an ancestral group. The chemistry is very primitive and this may support this idea. Perhaps you could publish the enclosed note in Phytologia perhaps after some corrections or additions. We got some interesting polyynes from the three Calotis species. Have you gotten the name for the Stevia sp. ?

With kind regards



Encl.

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R.M. King
National Museum of Natural History
Smithsonian Institution

Washington, D.C. 20560

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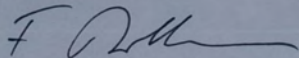
Datum 13.8.1987

Dear Dr. King,

I have answered your letter directly and agreed with you that Mexico still is interesting. I had asked you how much support you would need. As we are being absent in the next three weeks I only could send you money when we are back. But this should be early enough. I hope you will get help from Prof. Dominguez in Monterrey.

As they have troubles with the extraction it would be better to send the air dried material to Berlin.

With kind regards



(Prof. F. Bohlmann)

August 14, 1987

Dear Dr. Bohlmann,

Many thanks for the typescripts of the two papers. It occurred to me that you did not include the results of *Minuria tridens* (Cooke) Lander in the study. It is my number 9581 from Western Australia. The species was just recently transferred to the genus from *Olearia*. It might make an interesting paper to work up the chemistry of *Olearia* and compare it with *Minuria*.

I hope to have the species name for *Stevia* for you soon.

Hope to hear from you soon.

Sincerely,

Robert M. King

Robert M. King

Department of Botany

August 20, 1987

Dear Dr. Bohlmann,

Enclosed is the typescript of the Stevia paper. The species in question turns out not to be a new species after all. Please note that there are some suggestions on the typescript .

Sincerely,

Robert M. King
Department of Botany

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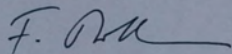
Datum 7.9.1987

Dear Dr. King,

Thank you for your letters and the corrections. Minuria tridens
unfortunately gave nothing of interest. The Olearia investigation
is not finished.

What about the Mexico trip? You got my letters?

With kind regards



(Prof. F. Bohlmann)

October 6, 1987

Dear Dr. Bohlmann,

Thanks for your recent letter. I am glad that you recieved the corrections. I sent the typescript to Phytologia which shoule be out soon.

Regarding the Mexican trip, It was too late to get the necessary permits. So I will need to plan it for another year. I consider Mexico very important. I would have gone earlier, but it was too dangerous (drugs). I think it is safe now.

Iw would like to plan a trip to Argentina and southern Brazil for February of next year. I have been checking and there are many species there that we do not have. I will send you and estimate of the cost.

Next week I will send you samples of some Asian Eupatorium that we grew in our greenhouse. I hope that they will give good results.

Sincerely, *RMK*

Robert M. King

Department of Botany

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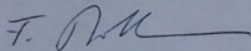
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Datum 12.10.1987

Dear Dr. King,

Thanks for your letter. I hope you go to Mexico next year and also to Argentina or Brazil (or both at the same time?). Surely you can get further interesting species. We have got by co-operation a lot of species from the Mutisieae from Chile which are interesting. It is besoming a little difficult to come through. We still have many, many extracts.

With kind regards



(Prof. F. Bohlmann)

October 26, 1987

Dear Dr. Bohlmann,

Enclosed please find a copy of the Phytologia with your paper. I hope that everything is correct.

I am still working on another collecting trip for you. One big problem, everything is so expensive! For instance car rental is awful. I will write to you later with more information..

I hope by now that you have recieved the copy of the Eupatorieae that I sent you last week.

Some corrections for the names of my recent Bolivian collections

RMK9648 *Coreopsis boliviiana* Blake

RMK9653 *Mikania oreimeles* B.L.Robinson

Sincerely,

Digitized by Hunt Institute for Botanical Documentation

Robert M. King

Robert M. King
Department of Botany

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Datum 29.10.1987

Dear Dr. King,

Thank you very much for the very nice and valuable copy of your
Eupatorieae book, your letter with the correction of names and
the copy of the Barnadesiinae paper. What is your opinion to
this splitting of the tribe? Our paper on Bolivian Stevia species
is accepted but referees ask for the collection sites and dates.
Could you please send us as soon as possible these data?

With kind regards

F. Bohlmann

(Prof. F. Bohlmann)

* RHK 9637, 9640, 9641, 9655

Nov 9, 1987

Dear Dr Bohlmann,

Thanks for your letter of Oct 29,
I glad to learn that the book on the
Eupatoriaceae arrived. we must now do
a similar treatment for your summary
work on the chemistry of the Compositae.
Of course in a number of volumes.

I have long favored a splitting of
the tribe and this seems a good way.

Regarding the Bolivian species.

9637 Feb 4, 87 Cochabamba Cercado: Km. 13,
on the road between Cochabamba and Santa Cruz
Elev 2700 m

9640 Feb 4, 87 Cochabamba: ca 60 kms E of the
bridge at Pucallpa - Elev 3000 m

9641 ditto

9655 Feb 5, 87 Santa Cruz: 23 kms E of Comarapa
r. ...

Dr. R. M. King
National Museum of
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Datum 13th Nov 87

Dear Dr. King,

Thanks for your letter with the locations of the Stevia species.
We are still working on your Australian collection but all is going
slow as in most cases new structures have to be elucidated.

Furthermore, also other species are under investigation. We got
a lot of interesting results from the tribe Mutisieae. I have the
feeling that some genera may be better transformed to other subtribes.

With kind regards

F. Oehl

Encl. *ms are sent to R. M. King,
correction can be done in the proofs*

December 1, 1987

Dear Dr. Bollmann;

Thanks for the letter and the typescripts. I am glad to learn that the Australian material continues to be interesting.

A couple of days ago I sent you some material for chemical study. Included were some samples of Asian Eupatoriums. Sorry that there was so little material but it was all we could grow in our greenhouse. Hope that you can get something out of it. The other material is from Brazil. RMK9700 is *Praxelis clematidea* (Griseb.) K. & R. I think that the other names are on the bags.

I am planning on making a collection trip to Colombia in mid February. I believe that I can manage the red tape for Colombia. I would like to collect in Brazil but their collecting rules are now impossible. In Peru there is too much danger. Colombia should have many species and genera that we have not studied before. Let me know what you think.

Sincerely,

R. M. King
Robert M. King
Department of Botany

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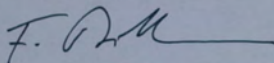
Datum 14.12.1987

Dear Dr. King,

Thanks for your letter dated December 1. Today we got the announced plant material. The Asian Eupatorium are already studied but if we have time we can look again. Two samples have only a partial name: Vernonia from Rio Bot. Garden, Ademostenma from Rio Bot. Garden. I hope you can give us the full names.

A trip to Colombia surely could give interesting material.

With kind regards



(Prof. F. Bohlmann)

January 12, 1988

Dear Dr. Bohlmann,

Thanks for your recent letter. I am glad to learn that you think that Colombia would be a good place to collect. Therefore, I have applied for a collecting permit. I plan to go there on February 15 for a month.

I have already inquired about the cost of things in Colombia and nothing is cheap! A jeep will cost \$500.00 a week plus gasoline. It seems to be the same all over South America. In view of this, I will have to ask you for \$6000.00 for the trip. It may even be more. I just do not know. I hope that you have the money and can send it soon.

On another subject, I believe that I collected you some of the genera *Podotheca*, *Trichanthodium* and *Chthonocephalus* in Australia. Would it be possible for you to work up your material of these genera.. A friend of mine, Dr. P. S. Short is doing a study of these genera and will be publishing on them soon.

Would you please send me a list of your publications for 1987?

Sincerely,

Robert M. King

Department of Botany

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Datum

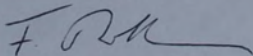
18.1.1988

Dear Dr. King,

Thanks for your letter. I have ordered the transfer of \$ 6.000,-
and I hope that the trip to Columbia will be successful.

We have just studied Trichanthodium (= Gnephosis exilis?) which
gave nothing characteristic while Gnephosis arachnoidia and G.
breuifolia gave several in part new sesquiterpene lactones.
I shall send the paper soon. Chthonocephalis we have not got
and the Podotheca species is not studied so far. It would be
of interest to know the opinion of Dr. Short concerning the
position of Gnephosis, it seems to me that it is not good
placed in Gnaphaliinae.

With kind regards



(Prof. F. Bohlmann)

February 4, 1988

Dear Dr. Bohlmann,

Thanks for your letter and the typescripts. The money also arrived.

Regarding the typescripts, I was sorry to see that you included Mr Lander as an author. I must tell you that he was the problem in Western Australia. He was the one that lost the vouchers. I consider him very unprofessional. All in all I consider it a very bad experience to have tried to work with him. I am sure that he lied to me. I hope that you will not want to reward him again with authorship. But that is your option

Sincerely,

Robert M. King
Department of Botany

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Datum 15.2.1988

Dear Dr. King,

Thanks for your letter. I did not know that Mr. Lander has helped so little. Of course this will be the only paper with his name. Probably I had mixed the situation in my mind, but now I remember that you had a good contact with Dr. Haegi.

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With kind regards

F. Bohlmann

(Prof. F. Bohlmann)

*What about the Dechen vider
for Perm?*

February 22, 1988

Dear Dr. Bohlmann,

In reference to *Baccharis*, *B. boliviensis* is in section *Heterothalmus* and *B. obtusifolia* Section *Cuneifoliae*. Regarding the samples of *Baccharis* with no names, I do not have these samples yet. I will send you the names as soon as I get them.

With regard to my trip to Colombia, I got the permit but I have been advised to delay my trip. It seems that there are too many terrorists at the moment. It all has to do with drugs.

In reference to Mr. Lander again, I do wish there were a way to get his name off the papers. Never have I encountered such a problem.

I expect to go to Costa Rica and Panama in late March or early April. If I do I will collect material for you. I am especially interested in the genus *Neomirandea*. This trip will be funded on other money, not from you.

Sincerely,

R.M.K.

Robert M. King

Department of Botany

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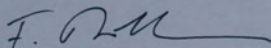
25.2.1988

Dear Dr. King,

Thanks for your letter and the placement of the Baccharis species.
I hope that Dr. Solomon has sent you the vouchers of the others.
It is really a pity that the South American countries are now
so dangerous. If you like I still can take the name of Mr. Lander
from the paper in the proofs especially as he has not answered
my letter.

I hope you will get again interesting Compositae in Costa Rica
and Panama where you perhaps can get more Mutisiidae.

With kind regards



(Prof. F. Bohlmann)

March 22, 1988

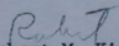
Dear Dr. Bohlmann,

Thanks for your letter. I am sorry to say that I still do not have the Solomon vouchers of Bacharris. I will write to him directly and see if he can send me the vouchers. With regard to the typescript with the name of Mr Lander, I think that it would be good if you deleted when you see the paper in proof.

The names of two collections that I sent to you earlier from Brazil are *Vernonia cinerea* Less. and *Adenostemma brasiliense* Cass. Both were grown from seed in our greenhouse. Both were collected in the Rio de Janeiro Botanic Gardens.

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Sincerely,


Robert M. King

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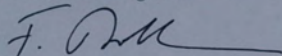
Datum 29.3.1988

Dear Dr. King,

Thank you for your letter and the names of the two species.
We are just back from a collection trip in Namibia where it
was very hot but we got a lot of new material.

Enclosed a reprint of Bremer, which may be of interest to
you. Not all is in agreement with chemistry, but most of it.

With kind regards



(Prof. F. Bohlmann)

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Datum

13.4.1988

Dear Dr. King,

In the meantime we have finished the Bolivian *Baccharis* species which gave a lot of new compounds (s. enclosed). I hope you got the vouchers from Solomon to get the names from those which have not been identified. If possible it would be nice to have also their placement in sections for the discussion at the end of the paper. I have not added the Experimental part as it may not be so interesting for you.

Soon we will have finished the Australian *Helichrysum* and I shall not add again Mr. Lander as a coauthor.

With kind regards

(Prof. F. Bohlmann)

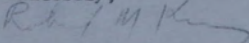
April 28, 1988

Dear Dr. Bohlmann,

Thanks for your letter and the typescript. Enclosed please find the names of the Solomon Baccharis from Bolivia.

On another matter, have you decided on the format of your summary work on the chemistry of the Compositae?

Sincerely,



Robert M. King
Department of Botany

P. S. I will send the other typescript next week.

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RMK

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Datum 2.5.1988

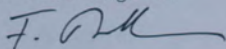
Dear Dr. King,

Thank you very much for the names of the Baccharis species and the additions to the paper of Argentinian Baccharis. This already has appeared in Revista Latinoamer. 18, 75 (1987) but the missing name is not important.

Concerning the question of the summary of the chemistry of the Compositae we have not decided how to organize it. As mentioned previously I am retiring next autumn, but I hope that we can go on, at least in a reduced way, with the chemistry of the Compositae, especially as we still have a lot of material which surely will not be finished in one year. Our collection in Namibia was relatively successful, we got again 70 species though it was very dry in March.

Coming back to the problem of a summary. I think a combination of the chemistry with the taxonomy will be necessary, at least in part. Therefore there are still many open questions. Just now we are working on your Australian Helichrysum and Helipterum species. So far the chemistry seems to be really different from that of the South Africans. Do you know in what section your Helipterum species have been placed and whether the anatomy of the Australian sections really differs from the South Africans? Enclosed some reprints which you may not have seen.

With kind regards



Prof. F. Bohlmann

July 5, 1988

Dear Dr. Bohlmann,

Please excuse the long delay in answering your letter. I have been on vacation.

By now I hope that you have recieved the material of Rolandra fruticosa L. that TI asked Dr. Dieter C. Wasshausen of our staff to collect for you in French Guiana. I believe that he asked Dr. Paul Hiepko of the Botanic Gardens in Berlin to take it to you. I hope that you get some good things out of it and can make a paper. If you do write up a paper, would you please include Dr. Wasshausen. The specimen should be cited as Wasshausen 1576 in the U S National Herbarium.

I have been thinking about the format for your summary paper on the Chemistry and Taxonomy of the Compositae. I would like to suggest that perhaps something similar to a book I found entitled Chemical and Botanical Guide to Lichen Products by Chicita F. Culberson published by the ~~N~~University of North Carolina Press, Chapel Hill in 1969. If this book is not available to you perhaps I can send you our copy. Anyway I think that perhaps a modified version of the format might be useful.

I am still planning to go to Colombia when it is safe.

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Sincerely,
Robert M. King

Robert M. King
Department of Botany

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Datum 8.7.1988

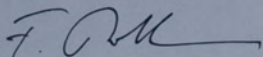
Dear Dr. King,

Thanks for your letter. So far I have not got the Rolandra
material, but surely it will come.

Concerning the summary of the Chemistry of the Compositae
we probably have to cooperate with Dr. Seaman as he has
already started the first volume with the diterpenes and
he is interested in a cooperation with us on this volume
and the further ones. The whole amount of compounds is about
10.000. We alone have 6.500. Surely much more than on lichens.

I hope that the situation in Columbia will become more safe
in the near future.

With kind regards



(Prof. F. Bohlmann)

August 4, 1988

Dear Dr. Bohlmann,

Thanks for your last letter.

I have some new names to report to you that were listed as new genera and species.

King 9575 *Dielitzia tysonii* P. Short

King 9558 *Feldstonia nitens* P. Short

King 9572 *Chthonocephalus* sp.

I will write to Dr. Short to inquire about the relationships of these new genera.

Regarding your planned cooperation with Dr. Seaman. It does seem a good idea to harness Seaman's energy to the cataloguing effort. One feature of his previous paper to be avoided is the lack of a way to find the general distribution of the chemicals in the Asteraceae. Seaman's treatment only allowed a person to get the original report from the molecule listing. Of course, Seaman doesn't know the plants well and his 1982 discussion of the evolutionary significance of the chemicals were not very good. We are still thinking about the best way to do that. The knowledge of the plant relationships seems to be the only way as yet to sort out the major potential chemistry of plant groups from some of the more incidental variations that keep showing up. It would seem that one volume should be totally devoted to the latter presentation..

I will appreciate learning your comments to the above.

Sincerely,

Robert M. King

Department of Botany

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Datum

17.8.1988

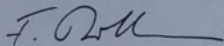
Dear Dr. King,

Thank you for your letter and the additional names of the Australian collection. If we know something of relationships we can study them.

We have just finished the Rolandra species. We got similar compounds as Herz and further ones. One of his structures has to be corrected.

You are right that we must be sure that in the work with Seaman one volume has to be written on the main chemotaxonomic aspects of the family. The first volume on diterpenes already shows that it will be a terrible job to write all volumes as there are so many compounds.

With kind regards



(Prof. F. Bohlmann)

October 20, 1988

Dear Dr. Bohlmann;

We have recieved the specimens from Kenya and Dr. Robinson is studying them. I expecte that he will be able to name many of them. You will probably hear from him in awhile.

I have been thinking^{about} the paper you have on Australian Helichrysum. You might want to contact Mr Paul G. Wilson at the Herbarium in Perth. He knows more about this group than anyone else.

I would like to get your permission to collect in southeastern Australia in January. I have been invited to go. We have hardly scratched the surface in Australian compositae. There is still too much danger in South America. Please let me know as soon as possible.

Sincerely,

Robert M. King

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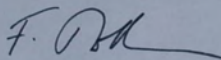
Datum 25.10.1988

Dear Dr. King,

Thank you for your letter. Surely a second collecting trip to SE Australia would be of interest. Is it possible that you send me a list of available genera of that aerea? Perhaps it would be interesting to look for special genera to learn more about relationships.

Enclosed a copy of the Waitzia paper which we sent to Phytochemistry and other copies.

With kind regards



(Prof. F. Bohlmann)

November 25, 1988

Dear Dr. Bohlenmann,

Thanks for your letter and the batch of new typescripts. Under separate cover I am sending you the plant vouchers that you sent from Kenya. We were able to put names on all of them.

I will plan to go to Australia in January. However, I will probably need more money. I am sure you have noticed what has happened to the American Dollar. It keeps going down!

Best regards

Robert H. King

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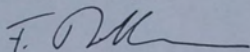
Datum 28.11.1988

Dear Dr. King,

Thank you very much for the identification of the Kenya-
samples. At least some may be interesting. We hope that
we can get more material from Kenya. Last week the Herbarium
people asked for cooperation.

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With kind regards



(Prof. F. Bohlmann)

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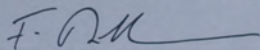
Datum 29.11.1988

Dear Dr. King,

Thanks for your letter. Please let me know how much you will need in addition for the Australia trip. I hope I can give you some more money but it is now becoming more difficult as I am retiring next year.

Not very interesting are probably further Olearia-, Senecio- and Bradycome-species, but surely there are may others of interest.

With kind regards



(Prof. F. Bohlmann)

December 6, 1948

Dear Dr Bohlmann,

Thanks for your letter of
Nov 29th.

As of now I could easily
use \$2000 more. I will try
to get some money from here
as well.

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The last time I went to Australia
it was much less expensive.
But then, the dollar was up.

Sincerely,
Robert M. King

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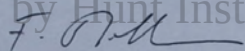
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Datum 12.12.1988

Dear Dr. King,

I have ordered to send you the 2.000 Dollar. I hope you will
get the money soon.

With kind regards



(Prof. F. Bohlmann)

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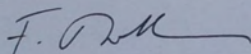
☎ (030) 314- 22252

Datum 2.1.1989

Dear Dr. King

Could you please check what Grindelia species it is?

With kind regards

A handwritten signature in dark ink, appearing to be 'F. Bohlmann', written in a cursive style.

(Prof. F. Bohlmann)

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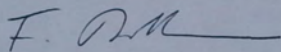
Datum 31.1.1989

Dear Dr. King:

I have been absent for a bypass-operation. Therefore I only
now can thank you for the plant material which we got in
good condition.

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With kind regards

A handwritten signature in dark ink, appearing to be 'F. Bohlmann', written in a cursive style.

(Prof. F. Bohlmann)

February 1, 1989

Dear Dr. Bohlmann,

Yesterday I sent you the plant with the name as requested. Another time, it would help to know where the plant was from.

On another matter, the paper on Rolandra should really have Dr Dieter C. Warshauer's name on it. I am sending the material for you. This is really important to him. I know I can get him to collect more plants for you.

I had a good trip to Australia and perhaps you have the plant material already.

Some of it will take a long time to get here.
Sincerely

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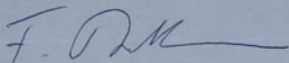
Datum 7.2.1989

Dear Dr. King:

Thank you for your letter and the identification of the
Heterotheca voucher. We are still very busy with the
extraction of your Australian material, but I hope that
we can finish this week.

As mentioned before I had a threefold bypass operation.
So far all looks good and I am feeling well. But I have to
be cautious the next time.

With kind regards



(Prof. F. Bohlmann)

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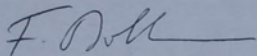
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Datum 20.2.1989

Dear Dr. King:

In the meantime we have extracted all the material you sent us from Australia. We just have finished the investigation of some Viguiera species. In one case (Solomon 16320, Bolivia) we have no secondname. Do you have the vouchers? Or could you try to get it. We then can add the correct name in the proofs.

With kind regards



(Prof. F. Bohlmann)

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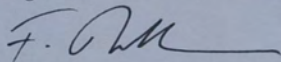
Datum 14.3.1989

Dear Dr. King,

Today we got the announced plant material. Is this also from
Australia? What about the names?

I am recovering well from the bypass operation and I hope
it was a success.

Kind regards



(Prof. F. Bohlmann)

March 24, 1989

Dear Dr. Bohlmann,

Under separate cover I have just sent you two boxes of plant material. RMK 9796 is *Encelia farinosa* Gray ex Torr. and RMK 9797 is *Palefoxia arida* B.L.Turner. I would request that you give some priority to the *Palefoxia* as I am sure that the results could be most interesting when compared to that of *Stevia*. Both collections are from California.

Solomon # 16320 is *Viguiera pazensis* Rusby.

I have a chance to collect in North western Mexico this fall (September or October). I know that this is near your retirement but it is the best season in Mexico and besides it is a chance to go with some other people. The cost would not be much. I have long wanted to get you some material from Mexico as it certainly is one of the best places for Compositae. Anyway, let me know.

What do you think of the next Compositae Conference at Kew?

RMK
Sincerely,

Robert M. King

Department of Botany

TU Berlin - IOC - Sekr. C 3 - Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R.M. King
National Museum of Natural History
Smithsonian Institution

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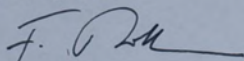
22252

Datum 3.4.1989

Dear Dr. King,

Thanks for your letter and the plant material which arrived today. We shall start with the Palafoxia species but I am sure the chemistry is not related to that of Stevia. The first old result surely was due to a misidentification of the sample which unfortunately could not be controlled. But all other material gave completely different chemistry. Of course, North Western Mexico will be interesting though other people (Herz, Mabry, Fischer, Dominguez) have collected there, but surely there are still new species.

Kind regards



(Prof. F. Bohlmann)

April 7, 1989

Dear Dr. Bohlmann,

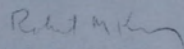
I am sending you today some plant material for your study that was collected in Dominica, West Indies by Dr. Dieter C. Wasshausen of this Department. I hope that you will find it useful and will be able to publish some papers on it. If so, would you please include Dr. Wasshausen as an author?

The names of the plants are

DCW 1570 *Chromolaena impatiolae* (Griseb.) Nicolson
DCW 1582 *Chromolaena trigonocarpa* (Griseb.) King & H. Robinson
DCW 1583 " " " "
DCW 1589 *Pluchea purpurescens* (Swartz) A. P. Decandolle
DCW 1590 *Baccharis pedunculata* (Mill.) Cab.

Hope that all is going well with you.

Sincerely,


Robert M. King

Department of Botany

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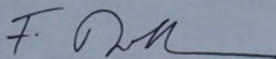
☎ (030) 314- 22252

Datum 17.4.1989

Dear Dr. King,

Thank you for your letter and the plants which we got today.
In the meantime we have started the investigation of the
Palafoxia species. It contains, as two others, pimarane deri-
vatives. Similar diterpenes are in Hymenothrix but not in
the other studied genera of the Chaenactidinae like Arnica
and Bahia. As pimaranes never have been detected in elements
of the Eupatorieae there is no support for a placement of
Palafoxia in the latter tribe though its placement in the
subtribe Chaenactidinae also may be in question.

Kind regards



(Prof. F. Bohlmann)

vv-dh 1570 = 1579?
↓
on the bag

Dr. R.M. King
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Smithsonian Institution
Dept. of Botany,
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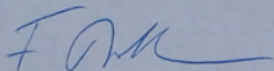
☎ (030) 314-22252

Datum 27th April 89

Dear Dr. King,

Today we got the sample of Calotis dentex from the greenhouse.
Enclosed a copy of the Palafoxia paper and some others.

With kind regards



Encl.

May 22, 1989

Dear Dr. Bohlmann,

Enclosed please find a partial list of the names for my recent Australian collections. Please note very carefully. Any collection indicated as a complex should be ~~analyzed~~ studied by itself and not with another that is indicated as the same complex. Right now the taxonomy is so poor that is the best name at this time. There are more names to come.

Thanks for the typescripts. The *Palafoxia* was very good. Hope that your health continues to be good.

Digitized by Hunt Institute for Botanical Documentation

Sincerely,

Robert M. King
Robert M. King

Department of Botany

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Datum 25.5.1989

Dear Dr. King,

Thank you very much for your letter with the list of the Australian species. It will cost a lot of time to study all species, especially as we now are a much smaller group. Of course, we shall go on though I am retiring on September 30, but with a very reduced number of coworkers.

I am still feeling well, the operation obviously was very successful.

Kind regards

(Prof. F. Bohlmann)

June 19, 1989

Dear Dr. Bohlmann,

Enclosed please find a copy of the final list of names for my Australian collections. Please remember that those numbers named as a complex are not necessarily the same species and should be studied sperately. Many species in Australia are not known well.

Glad to hear that your health continues to be good and that you will continue to work after your retirement. My trip to Mexico is still being planned. However, it is planned with another who might change his mind at the last moment. Can material be sent to you collect after your retirement? I expect to also go to Panama early next year.

Sincerely,

Robert M. King
Department of Botany
Stop #166

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Datum 23.6.1989

Dear Dr. King,

Thank you for your letter with the last names of the Australian species. Of course, you can send us material after retirement. However, already now all is going more slow as I no more have so many coworkers and many, many extracts are still to be studied.

Kind regards

(Prof. F. Bohlmann)

September 5, 89

Dear Dr Bohlmann,

Just a short note to inquire if you could pay me for any shipping costs of sending you material for biochemical study from Mexico. I may be able to send it collect but I don't know.

I leave on Sept 26 for Mexico and return Oct 25

Sincerely

Robert M King

TU Berlin · IOC · Sekr. C 3 · Straße des 17. Juni 135, D-1000 Berlin 12

Dr. R.M. King
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Datum 27.11.1989

Dear Dr. King,

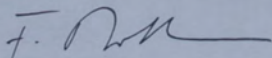
Thank you for the plant material we got in good condition
(RMK 9804, 9805, 9807, 9812, 9822, 9826, 9839, 9844, 9962).

There is a open question concerning the separation of
Apalochlamys from Cassinia. Can you give us a reference?

The reference is asking for ID.

I hope all is going well. My group now is much smaller but
we are still busy with the investigation of Compositae.

Kind regards



(Prof. F. Bohlmann)