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#### *About the Institute*

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

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

VIA AIR MAIL  
14 December 1967

Dr. Robert F. Raffauf  
Park Drive Manor, 317-B  
Philadelphia, Pennsylvania 19144

Dear Dr. Raffauf:

Dave Rogers gave your letter to me and also copies of his letters. I agree that your field is one of those we need here, and have the same interest in trying to do something in the matter as Dave has. Our difficulties are, however, connected with the fact that we do not have any FTE position available at present. A solution similar to the one Dave has mentioned to you may be a way out, since our administration is interested in getting people with research grants to join our Faculty.

Although Dave, naturally, mentioned Cinchona chemotaxonomy as a good subject, because of the fact that he is working with it, other problems ought to be open for discussion, and I can easily see the point in concentrating on Solanaceae, as you mention.

Would you find it worthwhile to consider applying for NIH or NSF funds for chemotaxonomical investigation on Solanaceae or Cinchona and other plants of your own selection, if we tried to make this possible through a visiting professorship for one or two or more years?

Naturally, I cannot promise to change such an appointment into a tenured position without having discussed it with our Dean, but since your approach will fit into the future plans we are hoping to get approved for the Department, such a development is at least likely.

If you feel tempted to try this way, perhaps you could give me and Dave a preliminary draft of such a proposal, including a budget, so that we could discuss it with the appropriate authorities? If acceptable, we can expect to be able to find funds to invite you for a seminar sometime during the spring, for a further discussion.

Dave is going to be away for some time, and I will spend the holidays in California until 7 January, so you do not need to react to this in a hurry. But we would like to hear from you soon in the New Year.

Merry Christmas!

Yours sincerely,

Askill Löve, Chairman

AL:mss

11 December 1967

Dr. Robert F. Raffauf  
Park Drive Manor 317-B  
Philadelphia, Penna. 19144

Dear Bob:

I have your letter of the 5th and am pleased with your response. Right at the moment I am busier than two people ought to be and so will take a little longer to get some good solid information for you than I would like to have done. I am showing your recent letter again to Askel Löve and hoping that he will come up with some good idea in the next few days.

If you don't hear from me till January the reasons are as follows: Thursday, leave for Mexico; return the 23rd. On the 26th have all teeth removed; 8th January begin classes again.

Sincerely,

David J. Rogers  
Professor of Biology

BJR:GM

Park Drive Manor 317-B  
Philadelphia, Pa. 19144  
5 December, 1967

Dr. David Rogers  
Department of Biology  
University of Colorado  
Boulder, Colo. 80302

Dear Dave,

I certainly appreciate your appraisal of the situation at Boulder. True, the news is not as positive as one might want to have it; on the other hand for a former resident of Switzerland----with a Swiss wife---Boulder just might have what it takes to suggest a calculated risk ! What more can you tell me ?

Do I assume that the "visiting professorship" would be in the Department of Botany ? Have you had any indications of interest on the part of the Department of Chemistry ? What sort of a grant would be paying my salary ? And how much would that be ? What would I be expected to research on ? Is there a reasonable indication that I might work toward permanent status after the first 2-3 years, or is this rather a fond hope ?

Dave, you know about as much of Cinchona as anyone else I could point a finger at. I would have to rely on your guidance as to what needs to be done with that genus. I have been more concerned with the allied genera Ladenbergia and Remijia; in one study with L. hexandra it seemed to be unrelated to Cinchona chemically, yet I thought I had read somewhere that it had once been considered as an alternate source of quinine.

But, as you say, there are other problems to work on. Anyone interested in Solanaceae for example ?

My immediate concern is being able to evaluate Boulder along with some of the Eastern schools which seem to be interested in my background. It is certainly to my interest to explore with you any further topics which seem indicated in order to do this, and I am willing to do so---if necessary including a visit to the school.

By all means let me know of any further thoughts you have in the matter.

Sincerely,  
*D.R.*

28 November 1967

Dr. Robert F. Raffauf  
Park Drive Manor 317-B  
Philadelphia, Penna. 19144

Dear Bob,

I have not much positive news to report. I have contacted the Pharmacology Department at the University Medical Center, Denver, and given a copy of your resume to Dr. Norman Weiner there. While his group is off in a different direction, he seemed at least willing to look around for you.

The chairman of Biology, Askeff Löve, has been apprized of your letter and is much interested in the chemotaxonomy aspects. We might, if you care to, consider the following route: ask you to come in as a visiting research professor with your total salary paid from a grant. After two or three years of this status, then we would move toward permanent faculty assignment.

I do not know whether there is any more chance of success now for a request that I was originally turned down on, but you might wish to consider a thoroughgoing chemotaxonomic study of the genus Cinchona. I got clobbered this year myself but I suspect it was for the reason that I was not considered a satisfactory citizen in the eyes of the granting agency. I think that your qualifications are such that you would more than make up for any deficiencies that I had.

There are probably other types of problems where a thoroughgoing investigation would pay commensurate dividends. I only suggest Chinchona, but if you care to go this route then let us pursue further planning. Let me know how you feel about it.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

NOV 15 1967

Park Drive Manor 317-B  
Philadelphia, Pa. 19144  
12 November, 1967

Dr. David Rogers  
Department of Botany  
University of Colorado  
Boulder, Colo. 80302

Dear Dave,

I hear via the grapevine that, by the same route, you are aware that SKanF recently called a halt to natural products research and left me without a program to run.

Obviously there are some loose ends to complete before the curtain comes wholly down and catches me in the back of the neck ! But the enthusiasm for phytochemical research in industry which began with reserpine has certainly faded, and many of the firms long active in the field seem impelled to enter other research areas. There are good reasons for this, but from the personal point of view it seems reasonable for me to investigate first those possibilities in which my background might still be useful.

With this you are familiar to some extent; I have attached a resume anyway. I feel at times like the traditional "Jack-of-all-trades" and master of only that one where botany, chemotaxonomy, documentation, and organic chemistry with some pharmacology overlap. But I know that there exist many challenging problems in this area; I am looking for some expression of interest in their solution.

This may be in the academic area where there is less pressure for marketable products; it may be in government; I don't know. Do you have any ideas ? Do we have anything to discuss ?

Kind regards,

Sincerely yours,

*RF*  
Robert F. Raffauf

*Walton-  
Pharmaceutical  
-> Norman Weiner  
Sytex-*

"Personnel Resume"

ROBERT F. RAFFAUF  
SENIOR INVESTIGATOR, NATURAL PRODUCTS

B.S.	in Chemistry	College of the City of New York	1936
M.A.	in Chemistry	Columbia University	1937
Ph.D.	in Organic Chemistry	University of Minnesota	1944

Dr. Raffauf is an organic chemist best known for his plant exploration and application of field testing methods to the search for alkaloid-containing plants. Active in the development of alkaloids as chemotaxonomic tools, he has studied the distribution of these substances in the plant kingdom, methods of documentation of the alkaloid literature, and the selection of plant groups likely to yield novel chemical structures of potential medicinal use. His more recent studies include the relationship of alkaloids to their biological activity and modification of this activity by synthetic routes.

Professional Chronology

Analyst, The Texas Co. Beacon Research Laboratories 1938-40 and summer 1941; technical illustrator "Organic Syntheses," Sneed and Maynard "Inorganic Chemistry," also teaching assistant, finally instructor, University Minnesota 1942-44; chief chemist, Grace-Lee Products Co., Minneapolis, Minn., 1943 (soap products); senior chemist, Norwich Pharmacal Co. - Eaton Laboratories 1944-47; research assistant Prof. P. Karrer, Univ. Zurich 1947; research assistant Prof. T. Reichstein, Univ. Basel 1947-48; fellow 1949; senior chemist, National Drug Co. 1950-51; N.I.H. post-doctoral fellow at SK&F (colchicine) 1951-53; senior chemist SK&F 1953-55; literature scientist 1955-58; group leader 1958-67.

Memberships Technical Societies

American Chemical Society, A.A.A.S. (Fellow), Swiss Chemical Society, N.Y. Acad. Sciences, Pa. Acad. Sciences, American Soc. Pharmacognosy, Society for Economic Botany, German Society for Medicinal Plant Research, Academy of Natural Sciences Philadelphia, Phila. Organic Chemists Club, National Geographic Society, Sigma Xi, Phi Lambda Upsilon.

President Council Soc. Econ. Bot. 1964-66 and Council Member 1966-.  
Vice President Am. Soc. Pharmacog., 1965-66.

Publications and Patents

No. of published papers 35  
No. of patents 4

Significant Patents

U.S. 2548173 and Brit. 698271 Commercial Production of 5-Nitrofurfural Derivatives.

ROBERT F. RAFFAUF

Significant Publications

Furan Chemistry: J.A.C.S. 68, 1765 (1946), 72, 753, 756 (1950).  
Colchicine Chemistry: J.A.C.S. 75, 2576, 3854, 5292 (1953) and 76,  
1707 (1954).  
Alkaloids/Chemotaxonomy: (Apocynaceae) Botanical Museum Leaflets Harvard  
Univ. 19, 109 (1960), Economic Botany 14, 37 (1960), Lloydia 27, 286  
(1964); others Lloydia 27, 25 (1964), Tetrahedron Letters 1966, 1577.

Business Address: Smith Kline & French Laboratories  
1500 Spring Garden Street  
Philadelphia, Pennsylvania 19101

Home Address: Park Drive Manor 317-B  
Philadelphia, Pa. 19144  
VI 3-8922

ROBERT F. RAFFAUF

Detailed Professional Experience

Organic Chemistry, General

1. Doctoral thesis with C.F. Koelsch on the configuration of piperidones in studies related to establishment of configuration of oxidation products of quinine, J.A.C.S. 66, 1857 (1944).
2. Studies on the Cyclization of Disubstituted Pentenoic Acids, J.A.C.S. 74, 4460 (1953).

Furan Chemistry

Synthesis of antibacterial furan derivatives culminating in patents for the commercial production of FURACIN and relatives:

3. Ultraviolet Absorption of Isomeric Furaldoximes, J.A.C.S. 68, 1765 (1946).
4. Furans. Ultraviolet Absorption and Molecular Structure, J.A.C.S. 72, 753 (1950).
5. Crystalline Modifications of 5-Nitro-2-Furaldehyde Semicarbazone (with F.L. Austin), J.A.C.S. 72, 756 (1950).
6. U.S. Pat. 2548173 (Furacin).
7. Brit. Pat. 649027 (Furacin).
8. Brit. Pat. 698271 (5-Nitro-2-Furaldehyde Thiosemicarbazone).

Colchicine Chemistry

On N.I.H. grant at SK&F Laboratories; isolation of colchicine and preparation of derivatives leading to anti-tumor active compounds:

9. Derivatives of Trimethylcolchicinic Acid (with A.L. Farren and G.E. Ullyot), J.A.C.S. 75, 5292 (1953).
10. Specific Rotation of Isocolchicine (with E.E. Bumbier and G. E. Ullyot), J.A.C.S. 76, 1707 (1954).
11. N-Formyl-trimethylcolchicinic Acid Methyl Ether (with A.L. Farren and G. E. Ullyot), J.A.C.S. 72, 3854 (1953).
12. C<sup>14</sup>-Labelled Colchicine Derivatives (with A.L. Farren and G.E. Ullyot), J.A.C.S. 75, 2576 (1953).

ROBERT F. RAFFAUF

### Plant Exploration

In connection with SK&F natural products program, developed methods for plant exploration and procurement of plant materials likely to yield novel chemical structures of potential medicinal use. Extensive travel in Central and South America, particularly in Amazon-basin; West Africa and Africa south of the Sahara; Malaysia, New Guinea and Australia; two years residence and several visits to Western Europe. See, for example:

"Green Medicine," Margaret B. Dreig, Rand-McNally, 1964.

"Drugs," Time-Life Science Library, 1967.

Languages: Fluent in German and Spanish; fair French, some Portuguese.

13. Plants as Sources of New Drugs, Econ. Bot. 14, 276 (1960).

Contact and several years' liaison with academic and government institutions throughout the world; direction of collaborative programs involving these groups in the study of naturally occurring medicinals; liaison with anthropologists, ethnobotanists in the investigation of medicinal folklore.

14. *Prestonia*: An Amazon Narcotic or Not? (with R.E. Schultes), Bot. Museum Leaflets, Harvard University, 19, 109 (1960) and other unpublished work.

### Plant Screening

Development of simple methods for the qualitative and semi-quantitative assay of plants for alkaloids in the field, thus avoiding unnecessary transport of samples to distant laboratories and permitting on-the-spot collection of selected material for chemical study... (unpublished work).

Plant extraction, isolation, purification and characterization of constituents from milligram (herbarium specimens) to multi-kilogram quantities:

15. Persistence of Alkaloids in Plant Tissue (with E.A. Morris), Science 131, 1010 (1960).
16. A Simple Field Test for Alkaloid-Containing Plants, Econ. Bot. 16, 171 (1962).
17. Mass Screening of Plants for Alkaloids, *Lloydia* 25, 255 (1962).

ROBERT F. RAFFAUF

Documentation

Reduction of the known alkaloid literature to a form suitable for handling by computer techniques; use of this material in the identification of known alkaloids, the discovery of new ones, and application of the data to chemotaxonomic studies. Currently this material is being readied for publication, as a handbook for the laboratory worker, in 1968.

18. Storage and Sorting of Phytochemical Data (with M.B. Flagler), Econ. Bot. 16, 14 (1962).

Chemotaxonomy

Though not a taxonomic botanist, excellent familiarity with the relationships which exist between botanical taxa and the substances which they are likely to contain; use of alkaloids as chemotaxonomic tools (where applicable) for the identification and classification of plants and prediction of chemical structures likely to be encountered:

19. Alkaloids of Hortia arborea (with I.J. Pachter, G.E. Ulyyot and O.Ribeiro), J.A.C.S. 82, 5187 (1960).
20. Alkaloids of the Apocynaceae (with M.B. Flagler), Econ. Bot. 14, 37 (1960).
21. Alkaloids of the Apocynaceae (with M.B. Flagler) reprinted in J. Chinese Chem. Soc. 1961, 39.
22. Alkaloids of Peschiera affinis (with J.A. Weisbach et al.), J. Pharm. Sci. 52, 350 (1963).
23. Alkaloids of Peschiera affinis (with M.P. Cava et al.), Chem. and Ind. 1964, 1193.
24. Cimicine and Cimicidine (with M.P. Cava et al.), Chem. and Ind. 1963, 1875.
25. Alkaloids of Ladenbergia hexandra (with J. Holker et al.) Phytochem. 3, 361 (1964).
26. Some Chemotaxonomic Considerations in the Apocynaceae, Lloydia 27, 286 (1964).
27. Major Alkaloids of the Genus Heimia (with B. Douglas et al.), Lloydia 27, 25 (1964).

(plus other unpublished work)

ROBERT F. RAFFAUF

Other Natural Products Chemistry

28. Triterpenoid Constituents of Gabunia odoratissima (with M.P. Cava et al.), *Lloydia* 25, 222 (1962).
29. Absolute Configurations of the Aporphines (with M.P. Cava et al.), *Chem. and Ind.* 1964, 282.
30. Gabunine (with M.P. Cava et al.), *Tetrahedron Lett.* 1965, 1577.
31. Alkaloids of Hernandia ovigera (with M.P. Cava et al.), *Tetrahedron Lett.* 1966, 1577.
32. Alkaloids of Cassipourea americana (with M.P. Cava et al.), 1967 in press.
33. Alkaloids of Stephania glabra (with M.P. Cava et al.), 1967 in press.
34. Alkaloids of Lycopodium alopecuroides (with W.A. Ayer et al.), 1967 in press.

Miscellaneous

Post-doctoral research with Prof. T. Reichstein (Basel) on studies of the structure of ouabagenin and synthesis of a thiamin antagonist, pyrithiamin:

35. Weitere Abbau Versuche mit Ouabagenin (with T. Reichstein), *Helv. Chim. Acta* 31, 2111 (1948).
36. Neopyrithiamin, *Helv. Chim. Acta* 33, 102 (1950).

While primarily engaged in procurement for a chemical program, exposure, through "team" research, to testing techniques and potential medicinal applications of compounds obtained through procurement efforts:

37. Pharmacology of the Alkaloids of Excavatia coccinea (with E. Macko), *J. Med. Pharm. Chem.* 2, 585 (1960).
38. Pharmacology of the Alkaloids of Malouetia arborea (with E. Macko and O. Ribeiro), *J. Med. Pharm. Chem.* 2, 239 (1960).
39. U.S. Pat. 2858251 (with I.J. Pachter) (Indoloquinazopyridines).

Currently supervising 5 people in the preparation of plant extracts for anti-tumor testing (N.I.H.), and in the modification of naturally occurring substances; some teaching at both graduate and undergraduate levels, and lectures to many A.C.S. and university groups; photography, technical drawing and illustration.

13 December 1967

American Express Company  
P. O. Box 1885  
New York, New York 10008

Gentlemen:

I am terribly disappointed in the slowness with which you have replied to my request for a credit card. I applied for this card at least three months earlier than this date. I was notified in November that a card was coming. It has not yet appeared.

Can you please tell me why I should wait and wait and wait?

Sincerely yours,

David J. Rogers

DJR:gm

30 November 1967

Mr. B. K. Ferris  
Science Communication, Inc.  
1081 Wisconsin Ave., N. W.  
Washington, D. C. 20007

Dear Mr. Ferris:

Although I indicated by postcard that I would be willing to answer the questionnaires sent by you, I shall not be able to comply. I find that the questions are so diffuse and ill-defined generally that I as an investigator cannot decide which way the questions should be answered.

I recommend strongly that you recall this questionnaire from all people to whom it has been sent; spend much more time on its conception, and the selection of people to whom it is sent to achieve whatever goal you are seeking.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

NOV 8 1967

MISSOURI BOTANICAL GARDEN  
"SHAW'S GARDEN"



2315 TOWER GROVE AVENUE  
ST. LOUIS, MISSOURI 63110  
TOWNSEND 3-0440

October 31, 1967

Dr. David J. Rogers  
Department of Botany and  
Plant Pathology  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

From the reports circulating around here, especially among the students, everyone learned a great deal from your various talks and private conversations and you did a good job of spreading the gospel of computer taxonomy.

I am sorry we did not get the program lined up early enough to have an extra session on the agenda but it seemed that there was a great deal to do and little time to cover everything.

For next year we are thinking about some phase of the usefulness of taxonomy to the community so if you have some ideas I would appreciate hearing from you.

Sorry we did not get to see more of you here but the symposium weekend is always a hectic one. Give our best regards to all the family.

Sincerely yours,

Hugh Cutler  
Curator of Useful Plants

9 November 1967

Dr. W. Hardy Eshbaugh  
Department of Botany  
Miami University  
Oxford, Ohio 45056

Dear Hardy:

Thanks a lot for your statement, but I am really glad to have a fight with the "establishment." I guess maybe half the fun is in the competition involved. It looks as though there was quite a bit of life left - It's not quite a dead science.

Your name is recorded for any of our future pearls of wisdom.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

NOV 14 1967

MRC

Medical Research Council  
External Staff

reference AE/EG

Department of Psychological Medicine  
Royal Free Hospital  
Lawn Road, London NW3

telephone 01-794 4561

2nd November, 1967

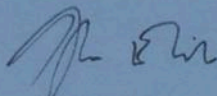
Dear Dr. Rogers,

It seems that most unfortunately your last letter to me was misfiled while I was on holiday more than a year ago, and I have not acknowledged this or your kindness in sending me the reprints for which I had asked. I hope you will accept my apologies and will, as promised, keep me on your mailing list.

I am sending you, under separate cover, two "pre-prints" which, though not directly in your field, will I hope be of some interest to you or to some member of your Department.

Kind regards,

Yours sincerely,



Mick Elithorn

Dr. David J. Rogers,  
Professor of Botany,  
Department of Botany and Plant Pathology,  
Colorado State University,  
Fort Collins, Colorado 80521, U.S.A.

15 November 1967

Dr. Arthur S. Boughey  
Department of Population and Environ. Biology  
Division of Biological Sciences  
University of California  
Irvine, California 92664

Dear Dr. Boughey:

Thank you for sharing with us your interesting project for taxonomic keys. We look forward to continuing output from your efforts.

A colleague of mine, Robert Baxter, a well known paleobotanist, is interested in moving to California. He is presently at the University of Kansas. If you have any hope of adding senior staff in the area of paleobotany, I cannot think of a better person than Dr. Baxter. He has lead a very productive life and his list of publications is large. He would be an asset in anybody's department. I am sorry I did not have a chance to speak with you face to face about Dr. Baxter, but I will be glad to provide any information in the event that you (or any of the other campuses in the California system) would be interested.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

15 November 1967

Dr. H. P. Friedman  
c/o University of Kansas Health Service  
Lawrence, Kansas 66044

Dear Herman,

This letter expresses our deep felt sympathy and hope that you will have a speedy recovery. We are sorry that you could not be with us to share your fine ideas about numerical taxonomy. We will look forward to seeing you here in Boulder next year, at the next conference.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

SMITHSONIAN INSTITUTION  
UNITED STATES NATIONAL MUSEUM  
WASHINGTON, D.C. 20560

NOV 2 1967

November 20, 1967

Dr. David Rogers  
Armory 101  
Biology Department  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

Thank you so much for your card of October 30 in which you offer to contribute as a lecturer at next summer's Institute in Systematic Botany.

One thing should be very clear, and we tried to make this evident in the preliminary announcement, this is still very much in the proposed stage. It is quite difficult, as you know, to obtain funds for much of anything these days and there is no certainty that we are going to be able to swing it. However, we are trying and, if it comes to pass, I am sure we will be in touch again.

With very best regards and good wishes.

Sincerely yours,



Richard S. Cowan  
Director  
Museum of Natural History

Entomological  Society of America

November 13, 1967

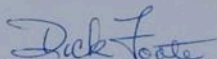
Dr. David J. Rogers  
Department of Biology  
Armory 101  
University of Colorado  
Boulder, Colorado 80302

Dear Dr. Rogers:

I certainly enjoyed meeting you and your colleagues last September 12 here in Washington. I sincerely hope much of the information about insects, you've taken back with you will contribute in some way to an effective systems design.

Please let me know if I can help you in any way.

Sincerely,



Richard H. Foote, Chairman  
Special Committee on  
Information Retrieval



11 October 1967

Dr. Don W. Smith  
Department of Biology  
North Texas State University  
Denton, Texas 76201

Dear Don:

Glad to hear from you, and about the Economic Botany course possibility. I have the following suggestions:

1. Texts: Hill, Economic Botany. McGraw Hill  
or Schery, Plants, Man and Life. Wiley (I think)

2. Reading: the journal, ECONOMIC BOTANY, for both you and your students. You can subscribe to the journal as a member of the Society for Economic Botany (you should be a member)

Miss Ruth J. Braach  
330 E. 70th Street  
New York, N. Y. 10021

with a \$7.50 check.

Your university ought to buy all the back issues of the journal to back up your course, and they can do this from Stechert-Hafner, Inc., 31 East 10th Street, New York, N.Y. 10003. There are 21 volumes, including this year.

You can get many other very useful volumes about economic plants, and I recommend strongly the World Crop Series published by Interscience (Leonard Hill in England), of which there are 15 or so published volumes. A good book on tropical economic plants is H. E. MacMillan, "Tropical Planting and Gardening." This is an old book, but still in print from MacMillan & Co., Publishers. I find it a wealth of information, though it is supposedly restricted to talking about the island of Ceylon. Another fabulous source of information which you probably will have to go to the second-hand dealers to find is the two-volume Dictionary of the Economic Products of the Malay Peninsula, by I. H. Burkhill. This is no doubt one of the best sources of information you will run across. I think you might have some luck on Burkhill from Stechert-Hafner. They are pretty good about finding such things. Another useful source

and one that I know has just been reprinted is Willis, Flowering Plants and Ferns. This is a name finder. If you want to know what family a certain genus is in, or to what genus a certain common name is applied, this work will be very useful. Many other goodies can be found in this same volume. You should also have available to you the various U. S. Pharmacopoeias. These works, published every five years, are a tremendous source of information on drug plants. Another useful volume, but I don't have full details on it, is the "Oil and Drug Reporter." Put your librarians to work in locating this work, published strictly for the trade in oil seeds, etc.

Also write to the various trade associations, most of which are headquartered in New York, for their give-away publications. The best way to locate them and their addresses is to go to the central phone exchange in Denton, where you can find a Manhattan phone directory, and look under such headings as "associations," "trade associations," etc. You can pick up much useful information this way, and it won't cost you more than a 5¢ stamp.

For your own edification, go to Anderson's list of readings recommended in the back of his book; the one which I loaned you for damned near a year.

Now, friends, with these you should be on the track - there are thousands of sources of information on plants useful (and harmful) to man. I've only started you in the direction you need to go. To be a good Economic Botany teacher is probably one of the most challenging jobs you will ever encounter. This literature is vast and scattered under many disciplines; and you should know it all.

Good luck!

David J. Rogers  
Professor of Biology

You can get many very useful volumes about economic botany and I recommend strongly the World Crop Series published by Interscience (London Hill in England), of which there are 13 or so published volumes. A good book on tropical economic plants is H. E. Macmillan, "Tropical Planting and Gardening." This is an old book, but still in print from Macmillan & Co., Publishers. I find it a wealth of information, though it is supposedly restricted to talking about the island of Ceylon. Another fabulous source of information which you probably will have to go to the second-hand dealers to find is the two-volume Dictionary of the Economic Products of the Malay Peninsula, by H. Burkill. This is no doubt one of the best sources of information you will run across. I think you might have some luck on Burkill from Stachert-Heister. They are pretty good about finding such things. Another useful source

11 October 1967

Miss Ann L. Farren  
Professional Relations Officer  
Biosciences Information Service  
2100 Arch Street  
Philadelphia, Penns. 19103

Dear Ann,

Thanks you your letter of the 3rd which tells me that you will be glad to give us a talk on November 8th. As usual with Universities seminars are given at such time as people are "pooped" from the day's work and start at 4:00 P.M. The seminar will be sponsored by Phi Sigma, the local biology honorary fraternity and will, I hope, attract a large crowd.

The major emphasis should be general biology, i.e. taxonomy, ecology, physiology, genetics; the specialized fields are not too well represented here, but if you cover the ones mentioned you'll get the biggest crowd.

Please come sooner than 4:00 P.M., by lunch time if you can, and I'll see that you get a short sightseeing tour, if that pleases you. Give me a call from Fort Collins, our phone number is in the heading, and we'll look forward to seeing you.

Will you need a place to stay? I think that the Harvest House Motor Hotel would be the most suitable. Their address and phone number are:

1345 26th Street, Boulder 80302

Phone 443-3850.

I have written back to John E. Crips with the blank form filled out that he requested. I hope it is meaningful.

Looking forward to seeing you,

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

FORTIETH ANNIVERSARY CONFERENCE



BIOSCIENCES INFORMATION SERVICE  
OF BIOLOGICAL ABSTRACTS  
2100 ARCH STREET  
PHILADELPHIA, PENNSYLVANIA 19103  
TEL. LO 9-1100 AREA CODE 215

October 3, 1967

Dr. David J. Rogers  
Department of Botany  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

We have now completed our organization plan for the seminar trip to Colorado in November. I will be in Boulder on November the 8th and can arrange to give a seminar at the University at whatever time would be most convenient to you and your students. Our schedule this trip is exceedingly tight because of the short period allotted us between the date of the dedication and the date of the Thanksgiving holiday; so that I hope that November the 8th will be a satisfactory date. If there are any special areas or special subject matter with which you would like me to provide more specific detail, please let me know. Naturally we are looking for a best possible subject coverage of the field of Pomology.

It was nice to see you at College Station and Philadelphia, and I am looking forward to meeting you again in Boulder on my first visit to the University of Colorado.

With kind personal regards.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Ann".

Ann L. Farren  
Professional Relations Officer

ALF/sdg

# BIOSCIENCES INFORMATION SERVICE

OF BIOLOGICAL ABSTRACTS 2100 ARCH STREET, PHILADELPHIA, PENNSYLVANIA 19103 U.S.A. TEL. LO 9-1100

COMMUNICATING THE PROGRESS AND DIRECTION OF BIORESEARCH

October 3, 1967

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Federation of American Societies  
for Experimental Biology

Dr. David J. Rogers  
Department of Botany  
University of Colorado  
Boulder, Colorado 80302

Dear Dr. Rogers:

In answer to many requests from bioscientists and librarians, we are expanding our seminar program to provide additional on-site visits by a staff representative to present a lecture-demonstration on more effective ways to use the computer-produced indexes to BIOLOGICAL ABSTRACTS and BIORESEARCH INDEX. At this time we are coordinating seminar visits to different sections of the United States and Canada with our schedule of exhibit-meetings. As seminar requests increase in any given geographic area, it may also be possible to plan special seminar tours in that section of the country.

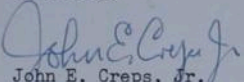
A seminar-exhibit series is now being organized for areas of Colorado, Nebraska, Wyoming, and South Dakota for November, 1967. Because of exhibit commitments and the Thanksgiving holiday, this seminar schedule is very tight. A list of the dates when seminars can be given in your area appears on the attached sheet. If this date is inconvenient for a seminar, our staff representative will be pleased to call informally at the library or laboratory to speak with interested persons.

Basically the presentation will include: (1) a discussion of services currently available for bioscience researchers in the biological and biomedical fields; (2) a discussion of the new indexing techniques for biological literature and a demonstration of more effective techniques for their use; (3) an outline of experimental programs now underway at BioSciences Information Service.

We suggest two hours for the seminar -- this allows about 50 minutes for the presentation and the remainder of the time for discussion and questions. However, this schedule may be adjusted to suit your convenience.

An application form and a stamped, self-addressed envelope are enclosed for your convenience. We would appreciate it if you could reply by October 19, so that we will have adequate time to forward educational material for the seminar. We look forward to hearing from you.

Sincerely,

  
John E. Creps, Jr.  
Manager  
Professional Services and  
Education Department

JEC/ed

OCT 5 1967

NORTH TEXAS STATE UNIVERSITY  
DENTON, TEXAS

DEPARTMENT OF BIOLOGY

October 2, 1967

Dr. David Rogers  
Department of Biology  
University of Colorado  
Boulder, Colorado

Dear Dave,

Have you recovered from the shock of the sudden end to the requirement of mowing your lawn? That might be a little too much to take all at once. Does the manager let you putter around the flower beds and the like? Aside from that, how do you like the condominium?

Say, Dave, one of the things I'm going to do here is develop a course either in weeds, economic botany, or both. Poor underprivileged characters haven't had the opportunity for exposure to that kind of enlightenment, and I propose to remedy that.

In all probability, the economic botany course will be the one to fly, so could you give me the benefit of a few suggestions--like some possibilities for suitable text or texts?

Drop by when you're through Dallas. We're about 35-40 miles from the airport.

Sincerely,



Don W. Smith  
Assistant Professor

skh

AUG 29 1967

# BioScience

Scientific Editor: DAVID M. PRESCOTT  
Executive Editor: ROBERT S. LEISNER  
Managing Editor: MARGARET U. CHAMBERS

A M E R I C A N I N S T I T U T E O F B I O L O G I C A L S C I E N C E S

3900 WISCONSIN AVE., N.W., WASHINGTON, D. C. 20016 • 202-362-6733

August 24, 1967

Professor David J. Rogers  
University of Colorado  
Taximetrics Laboratory  
Department of Biology  
Armory 101  
Boulder, Colorado 80302

Dear Professor Rogers:

In answer to your question of 18 August, yes it is still possible to obtain 100 reprints of the article "A General Method of Taxonomic Description for a Computed Similarity Measure," which appeared in BioScience. I am enclosing a reprint order form for your convenience. Please indicate whether this is an institute order or your own.

It will take about six weeks after we receive this order for the reprints to be delivered.

Sincerely yours,

D. Anne Harberger (Miss)  
Publications Department

dah

*See order - order the reprints*

*PR sent <sup>to DRS</sup> 7 Sept*

UNIVERSITY OF HAWAII • HONOLULU, HAWAII 96822

DEPARTMENT OF BOTANY, 2450 CAMPUS ROAD

October 24, 1967

OCT 27 1967



Dr. David J. Rogers  
Taximetrics Laboratory  
Department of Biology  
Armory 101  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

I am just getting around to scanning reprints sent me during the past few months; after spending the summer in Suva on my Fijian research it has taken some time to catch up with duties on the campus.

Many thanks for the reprint of your joint study with Irwin on *Cassia*. The taximetric approach is very interesting and seems to have led in this case to sound conclusions. It would doubtless be desirable to subject many or all tropical groups of plants to this type of analysis, but I fear that floras would never get written on such a basis. Nevertheless, I hope you will continue this sort of work.

With best wishes,

Sincerely yours,

A. C. Smith  
Wilder Professor of Botany

ACS:dt

20 September 1967

Dr. and Mrs. F. G. Meyer  
7417 Buffalo Avenue  
Takoma Park, Maryland 20012

Dear Jean and Fred,

I much appreciated your kind hospitality on Saturday, the ninth. As usual we were fed better than we had been in a very long time. Our activities in Washington the following week were extremely successful and we learned a number of things useful to the development of an IR system.

Fred, I strongly recommend that you get in touch with Mason Hale who is just beginning to develop a system of record keeping using various types of machines. I am sure he would welcome any inquiries from you.

I do hope that you will have the opportunity in the near future to come visit us here in Boulder. We would love to have you come.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

- P.S. Two people that I ran into after leaving Washington seemed to be pleased to hear that you would accept documenting herbarium specimens of cultivated material of interest to them. These men are Dr. Frank Martin, Federal Experiment Station, USDA, ARS, CRD, P.O.Box 70, Mayaguez, Puerto Rico, and Dr. Alfred Jones, USDA, ARS, CRD, VEG. AND ORN. R.B., Georgia Coastal Plain Experiment Station, Tifton, Ga. 31794. These two men and I are collaborating on a study of the classification of the section Batatas of Ipomoea. Jones has already a collection of species going, has made a number of chromosome counts and wants to make documenting vouchers of them. You might do well to write them and encourage them in this preparation of specimens.

Taximetrics Laboratory

Armory 101

17 August 1967

Dr. J. M. J. de Wet  
Department of Agronomy  
University of Illinois  
Urbana, Illinois 61801

Dear Dr. de Wet:

I was pleased to see your change of address and your relation to the exciting Crop Evolution Laboratory. I notice that you offer opportunities for work in numerical taxonomy, among others. Since I have long had an interest in this subject, and cultivated plant taxonomy, I am glad to see the emphasis placed on these two subjects by you. You know, of course, that I have been working on the cultivars of Manihot esculenta for some time. We are about to publish the first classification of a cultivated species done with a computer. You will be able to hear a short report on this at the annual symposium at the Missouri Botanical Gardens, October 13 - 14.

What are the opportunities for the exchange of students between your lab and ours? I have a student who is coming in to do his studies on Manihot with me, and I think this gentleman would profit from a semester or so with you. I would also suggest that some of your students might gain from taking our course in taximetrics since it is designed for people with interests in cultivated plants. I will be interested in your comments on these subjects.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

Aug 16, 1967

CROP EVOLUTION LABORATORY

Department of Agronomy, University of Illinois, Urbana

PERSONNEL: Jack R. Harlan, Professor of Plant Genetics  
J. M. J. de Wet, Professor of Cytogenetics  
Earl R. Lang, Professor of Plant Breeding and Genetics  
Darril Miller, Associate Professor of Plant Breeding and Genetics  
John Dudley, Associate Professor of Population Genetics  
Robert J. Lambert, Assistant Professor of Plant Genetics  
Theodore Hymowitz, Assistant Professor of Plant Genetics

OPPORTUNITIES FOR STUDY: Fellowships are available for graduate study in such fields as CHEMICAL TAXONOMY, NUMERICAL TAXONOMY, CYTOTAXONOMY, CYTOGENETICS, GENETICS, ARCHAEBOTANY, and ETHNOBOTANY dealing with cultivated plants and their relatives. There are opportunities for field work abroad to collect the wild and weedy relatives of crops, to study their ecological behaviour, to analyze population structures in the field, and to conduct studies on the ethnobotany and archaeobotany of selected cultivated plants. Options are available in which the course work is completed at the Urbana campus and the thesis research conducted abroad. The laboratory is associated with the University Programs in International Agriculture and the Centers for Asian Studies, Latin American Studies, and African Studies.

FACILITIES: The laboratory has equipment for gas, paper, and thin-layer chromatography, and isoenzyme electrophoresis. Excellent microscopic and photographic equipment, including phase contrast is in the laboratory, and an electron microscope is available for special studies. Specialized equipment accessible to the laboratory include a Nuclear Magnetic Resonance Analyzer for oil, an Amino acid Analyzer, and an X-ray Spectograph. Computer service is available for studies in numerical taxonomy. There is an experimental farm near the campus, a winter nursery in Florida, and arrangements can be made to grow material in the tropics when necessary. The University has two US/AID contract locations in India and one in Sierra Leone. The library contains one of the largest University collections in the United States.

SUPPORTING DEPARTMENTS: The Biochemistry Division of the Department of Chemistry and Chemical Engineering enjoys an international reputation and will provide thorough background training for all aspects of Chemical taxonomy. The Departments of Computer Sciences and of Mathematics will supply ample opportunity for background training in Numerical taxonomy. Support in other areas includes the Departments of Botany, Horticulture, Anthropology, Linguistics, Geography and of Sociology.

INTERESTED STUDENTS SHOULD CONTACT: Dr. M. D. Thorne, Head of the Department of Agronomy, University of Illinois, Urbana, Illinois 61801.

Please note my new address

J. M. J. de Wet

- Taximetrics Laboratory

June 20, 1967

Dr. Harlan P. Banks, Treasurer  
Botanical Society of America, Inc.  
214 Plant Science Building  
Cornell University  
Ithaca, New York 14850

Dear Dr. Banks:

Please note our change of address on July 1, 1967 from  
Department of Botany and Plant Pathology, Colorado State University,  
Fort Collins, Colorado 80521 to the Department of Biology, Univers-  
ity of Colorado, Boulder, Colorado 80302.

I am sorry that I neglected so long in paying my dues. It  
was strictly an oversight.

Sincerely,

David J. Rogers  
Professor of Botany

DJR/ch



1967

Third Dues Notice

You may recall that last January you received a second notice to the effect that your dues to the Botanical Society of America for 1966 were unpaid. In past years, this second notice was the final reminder that was sent. It seems advisable, for various reasons, to send this additional notice in the interest of those who do not wish their membership to lapse and who desire to continue to receive the American Journal of Botany. Furthermore, the strength of our society and the program it can support are aided by maintaining our membership.

Payment of dues can be made at any time, and all back numbers of the current volume of the Journal will be sent upon receipt. Dues are continued as in the past--\$10 for regular members and \$6 for graduate student members. Checks should be drawn to the order of the Botanical Society of America, Inc. and mailed to:

Harlan P. Banks, Treasurer  
Botanical Society of America, Inc.  
214 Plant Science Building  
Cornell University  
Ithaca, New York 14850

- Taximetrics Laboratory

June 20, 1967

Dr. Rafael Girard  
11 Avenida "A"  
8-03, Zona 2  
Guatemala

Dear Rafael:

I am very pleased to have received your magnificent work "Los Mayas Su Civilizacion Su Historia Sus Vinculaciones Continentales." This is indeed a most magnificent and comprehensive work. Thank you very much for sending it.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

June 2, 1967

HARPER & ROW, PUBLISHERS, INC.  
Keystone Industrial Park  
Scranton, Pa. 18512

Dear Sirs:

I am returning the enclosed book Biological Techniques because we will not be using it in our course work as originally planned.

Sincerely yours,

Henry S. Fleming  
Associate Professor of Botany

HSF/ch

- Taximetrics Laboratory

May 23, 1967

TAB Products Co.  
1815 Federal Blvd.  
Denver, Colorado

Gentlemen:

I would appreciate very much receiving a copy of your catalog  
"Data Processing Auxiliary Equipment." Please include the price  
list for this catalog.

Thanking you in advance.

Sincerely yours,

Henry S. Fleming  
Associate Professor of Botany

HSF/ch

- Taximetrics Laboratory

May 17, 1967

Dr. J. M. Gillett  
Plant Research Institute  
Canada Department of Agriculture  
Ottawa 3, Ontario  
Canada

Dear Jack:

Thank you for sending the reprints. I am glad to hear from you. I am afraid that we won't get any closer to Expo 67 than Ann Arbor, Michigan. Are you by any chance planning to attend the International Conference on Systematic Biology to be held in Ann Arbor on June 14-16? It would be nice to see you there.

Sincerely,

David J. Rogers  
Professor of Botany

DJR/ch



Plant Research Institute

YOUR FILE NO.  
VOTRE RÉF. NO.

OUR FILE NO.  
NOTRE RÉF. NO.

Dr. David J. Rogers,  
Taximetrics Laboratory,  
Dept. of Botany & Plant Pathology,  
Colorado State University,  
Fort Collins, Colorado 80521, U.S.A.

Ottawa 3, Ontario.

May 8, 1967.

Dear Dave:

I'm enclosing the reprint you requested plus a couple of others.

Glad you like Colorado, I was out there a few years ago & liked it too. My family also doing fine (wife Gladys, son Peter, age 8 & daughter Kim, age 7). If you are planning to come to Expo 67 be sure to pay us a visit. Location: 75 Canter Blvd., Ottawa 5, Ont. Telephone 224-2843 (Area code 613).

Regards.

J.M. Gillett.

/jd

Encl.



- Taximetrics Laboratory

May 17, 1967

Dr. W. Hardy Eshbaugh  
Department of Botany  
Southern Illinois University  
Carbondale, Illinois 62901

Dear Dr. Eshbaugh:

I noted your change of address to Miami University after June 10. Perhaps you should note mine will change to the Department of Biology, University of Colorado, Boulder, Colorado 80302 after July 1.

We can certainly get together at the AIBS meetings. You may be interested to learn that I am chairing the symposium on "Taximetrics--Theory and Practice." You should find these papers interesting, I trust.

Looking forward to seeing you.

Sincerely,

David J. Rogers  
Professor of Botany

DJR/ch

Southern Illinois  
University

CARBONDALE, ILLINOIS 62901

May 11, 1967

*Department of Botany*

Dr. David J. Rogers  
Department of Botany and Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

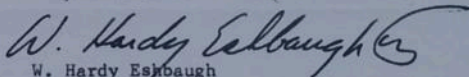
Dear Dr. Rogers:

I have been reflecting upon your letter of earlier this year. At this point, I can say that I believe I would be interested in submitting some of my data to you for analysis. However, I am in complete agreement with you that we should sit down together and make sure that we understand the nature of my problem and can arrive at an appropriate taximetric method. I will be at the AIBS meetings at the end of August, and we might be able to get together at that time.

I would be unable to do much with this paper before the autumn, as I am currently changing positions and taking an appointment at Miami University. After June 10, all correspondence should be directed to me in care of the Department of Botany, Miami University, Oxford, Ohio, 45056.

Once again, thank you for your interest in this problem. I do believe you will be most interested in my data and its possible application for numerical analysis. Dr. Sneath has also expressed an interest in my data and the nature of numerical analysis applied to cultivated and wild species in the same genus.

Sincerely yours,



W. Hardy Esbaugh  
Assistant Professor and  
Curator of the SIU Herbarium

WHE:bg

Taxinmetrics Laboratory

May 29, 1967

Dr. E. B. Worthington  
Scientific Director  
Central Office for the Programme  
International Council of Scientific Unions  
7 Marylebone Road  
London, N.W.1  
England

Dear Dr. Worthington:

Please put me on the mailing list for the two publications:  
IBP News and The Biosphere. These should be addressed to me at  
the Department of Biology, University of Colorado, Boulder, Colo-  
rado, 80302.

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

-Taximetrics Laboratory

May 23, 1967

Dr. Richard A. Reymont  
Geologiska Institutionen  
(Biometriskä Laboratoriet)  
Stockholms Universitet  
Stockholm 45  
Sweden

Dear Dr. Reymont:

If reprints of the following papers are available, I would greatly appreciate receiving a copy:

1. Upper Cretaceous fossil molluscs in South America and West Africa. NATURE, 207(5004): 1384. 1965.
2. Quantitative morphologic variation and classification of some Nigerian Paleocene Cytherellidae. MICROPALAEONTOLOGY, 11(4): 457-465. Illus. 1965.
3. Observations on the variability of *Sagrina circumspinoza*. NIGERIAN J. SCI., 1(1): 65-70. Illus. 1966.

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

also

P.S. I would/like to have any other papers you may have on taximetrics.

COLORADO STATE UNIVERSITY

FORT COLLINS, COLORADO 80521

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY

Dr. Robert Bruch

N.Y. B.H.

Bronx Park

" N.Y.

Dear Dr. Bruch:

The enclosed proofs are fine. When  
should we order reprints?

David J. Rogow

(by C.H. secretary to D.J. Rogow)

Copy

April 10, 1967

COLORADO STATE UNIVERSITY

FORT COLLINS, COLORADO 80521

SEED LABORATORY

May 4, 1967

Dr. David J. Rogers  
Taximetrics Laboratory  
Old Music Building  
Colorado State University  
Fort Collins, Colorado

Dear Dr. Rogers:

Thank you for the opportunity of auditing your course in Taximetrics, a fascinating new world. I am sorry that it was not possible for me to devote more time to the study.

It is with real regret that we learn of the departure of your department from the C.S.U. campus. We hope that we will still have the pleasure of seeing each of you from time to time.

Sincerely,

*Mildred L. Thornton*

Mildred L. Thornton  
Analyst in Charge

MLT:jb

S. K. Sinha  
Plant Physiologist  
Central Tuber Crops Research Institute  
Trivandrum - 10.  
India.

March 17/16, 1967

Prof. David J. Rogers  
Professor of Botany  
Department of Botany & Plant Pathology  
Colorado State University  
Ft. Collins, Colorado,  
U.S.A.

Dear Prof. Rogers,

I have recently joined as a  
Plant Physiologist in this Institute. We  
are actively working on Cassava and  
other tuber crops. My interest mainly is  
in physiology and biochemistry. I would  
very much appreciate if you could suggest  
some recent publications and some of  
your own.

I shall welcome your publications  
on taxonomic aspects to build a  
suitable background.

Thanking you, with kind regards,

Sincerely yours  
S. K. Sinha

Also sent: *Corn Bot.* 17(2)  
" " 13(3)  
" " 19(4) } 3/24/67  
*Bull. Inst.* 90(1)  
Manuscript Bibliography  
(enclosed attached to  
letter to Dr. Baccigalupo  
Lima Peru)

- Taximetrics Laboratory

April 27, 1967

Miss Elena M. Genova  
Bulgarian Academy of Sciences  
Botanical Institute  
Sofia 13, Bulgaria

Dear Miss Genova:

In reply to your letter of March 24, 1967, I recommend that you examine the following literature sources to discover the exact type of information which interests you in the problems of plant resources of nature. The publications which I recommend are largely lists of the scientific literature of the world published in all languages. These publications are:

1. Bibliography of Agriculture published by the United States Department of Agriculture.
2. Biological Abstracts published at 3815 Walnut Street, Philadelphia 4, Pennsylvania, U.S.A.

These two publications tell you what types of information about plants is being published today and from them you may determine the most important literature for your purposes.

In addition to these, I recommend strongly that you read the journal of ECONOMIC BOTANY published by the New York Botanical Garden, Bronx Park, Bronx, New York 10458. This serial publication is one of the primary sources of information about plant uses. I expect that this journal may be found in the library of your own institute.

I trust that the information given above will help you get started on the interests you have.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

БЪЛГАРСКА АКАДЕМИЯ НА НАУКИТЕ  
BULGARIAN ACADEMY of SCIENCES

Ботанически институт  
Botanical Institute

София 13 — България  
Sofia 13 — Bulgaria

March 24, 1967

David J. Rogers  
Colorado State University

Dear Sir,

Excuse me for disturbing you with my letter.  
I am an young botanist, just begining my scientific work at our  
Botanical Institute.

I will study the problem of plant resources of nature. This  
is a very interesting question for me and I began on it looking  
now for literature. I have on my disposition chiefly literature  
in Russian.

I will be grateful to you, if you can inform me about any  
Foreigner Periodical Editions, mainly in English, which give ma-  
terial on this question.

With many thanks beforehand,

I remain.

Yours truly,

*E. Genova*  
Elena M. Genova

- Taximetrics Laboratory

May 8, 1967

Dr. D. J. Farber  
Bell Telephone Laboratories, Inc.  
Holmdel, New Jersey

Dear Dr. Farber:

If reprints of the following papers are available, I would greatly appreciate receiving a copy:

SNOBOL, A String Manipulation Language. Journal of the ACM, 11(2): 21-30, January, 1964.

The SNOBOL3 Programming Language. The Bell System Technical Journal, July-August, 1966, Page 895.

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

May 2, 1967

British Information Services  
845 Third Avenue  
New York 22, N.Y.

Gentlemen:

May I please obtain the following Home Office Research Unit  
report?

"Studies in the causes of delinquency and the treatment of  
offenders. 6. Some statistical and other numerical tech-  
niques for classifying individuals." (Mr. MacNaughton-Smith,  
London:H.M.S.O.)

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

MTG.



Research Unit

HOME OFFICE

Horseferry House, Dean Ryle Street, LONDON S.W.1

Telephone: victoria 6655, ext.

Telex: 24986

Our reference: RES 507/2/1

Your reference:

26<sup>th</sup> April 1967

MAY 2 1967

Dear Professor Rogers,

Thank you for your letter dated 17th April 1967, regarding the publication "Some statistical and other numerical techniques for classifying individuals".

Copies of this report and other Home Office Research Unit reports can be obtained from British Information Services, 845 Third Avenue, New York 22.

Mr. MacNaughton-Smith has left the Home Office Research Unit, and he is now working at the Centre of Criminology, University of Toronto, Ontario, Canada.

Yours sincerely,

Professor David J. Rogers  
Taximetrics Laboratory  
Department of Botany and  
Plant Pathology  
Colorado State University  
Fort Collins  
COLORADO 80521  
United States of America.

Write for it!

- Taximetrics Laboratory

April 17, 1967

Dr. P. Macnaughton-Smith  
Home Office Research Unit  
Thames House South  
Millbank, London, S.W.1  
England

Dear Dr. Macnaughton-Smith:

If the following publication is available, may I please  
have a copy?

"Studies in the causes of delinquency and the treatment of  
offenders. 6. Some statistical and other numerical tech-  
niques for classifying individuals." London: H.M.S.O.

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

May 2, 1967

Dr. J. M. Gillett  
Canada Department of Agriculture  
Plant Research Institute  
Central Expt. Farm  
Ottawa 3, Ontario, Canada

Dear Dr. Gillett:

If the following publication is available, may I please have  
a copy?

"A numero-taxonomic study of some species of Trifolium sect.  
Lupinaster." Can. J. Bot. 44: 1177-1182. (Co-authors:  
Parups, Proctor, and Meredith)

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

April 25, 1967

Dr. J. S. Melton  
School of Library Science  
Western Reserve University  
Cleveland, Ohio

Dear Dr. Melton:

If reprints of the following papers are available, I would greatly appreciate receiving a copy:

1. A note on the compatibility of two information systems, colon classification and Western Reserve University (Encoded Telegraphic Abstracts) and the feasibility of interchanging their notations. Also published in Ranganathan Festschrift, v. 1: 49-62, 1965.
2. Conversion of the chemical abstracts subject index for machine searching (abstract).
3. An application of generic-specific content analysis to searching procedure (abstract).

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taxometrics Laboratory

April 13, 1967

Dr. Charles A. Rosen  
Applied Physics Laboratory  
Stanford Research Institute  
Menlo Park, California

Dear Dr. Rosen:

We thought you might be interested in the enclosed paper in relation to the article of yours in Science entitled "Pattern Classification by Adaptive Machines." May we please have a reprint of this paper when it is available?

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/eh

Enc.

- Taximetrics Laboratory

April 25, 1967

Dr. V. Vand  
Groth Institute  
Pennsylvania State University  
University Park, Pa.

Dear Dr. Vand:

If reprints of the following papers are available, I would greatly appreciate receiving a copy:

1. Rotated tabulation of chemical names: hexagonal crystals, Barker index of Crystals, Vol. 1, Part II. (Rept. no. 45).
2. Crystallographic information retrieval methods in the Groth Institute (abstract). Published in Abstracts of Commun., Fifth Internat'l. Cong. and Symposia, Internat'l. Union Cryst., Cambridge (Gt. Brit.), Aug. 15-24, 1960, p. 123-124.

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taxometrics Laboratory

April 17, 1967

Mr. John C. Gower  
Statistics Department  
Rothamsted Experimental Station  
Harpenden, Herts, England

Dear Mr. Gower:

If the following publications are available, I would appreciate very much receiving a copy: "Some distance properties of latent root and vector methods used in multivariate analysis." *Biometrika* 53: 325-338 (1966); and "A Q-technique for the calculation of canonical variates." *Biometrika* 53: 588-589.

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

April 17, 1967

Dr. Louis L. McQuitty  
Michigan State University  
East Lansing, Michigan

Dear Dr. McQuitty:

If the following publications are available, I would appreciate very much receiving a copy:

1. A conjunction of rank order typal analysis and item selection. *Educ. Psychol. Measmt.* 25: 949-961.
2. Multiple rank order typal analysis for the isolation of independent types. *Educ. Psychol. Measmt.* 26: 3-11.
3. Single and multiple hierarchical classification by reciprocal pairs and rank order types. *Educ. Psychol. Measmt.* 26: 253-265.
4. Multiple factor analysis in terms of weighted regression. *Educ. Psychol. Measmt.* 26: 577-582.
5. A mutual development of some typological theories and pattern - analytic methods. *Educ. Psychol. Measmt.*

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

April 17, 1967

Dr. Robert R. Sokal  
Department of Entomology  
The University of Kansas  
Lawrence, Kansas

Dear Bob:

If the following publications are available, I would appreciate very much receiving a copy: "Numerical taxonomy." Sci. Amer. 215: 106-116; and "Efficiency in taxonomy." Taxon 15: 1-21.

Thanks.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

April 17, 1967

Dr. David W. Goodall,  
~~CSEIRO Western Australian Regional Laboratory~~  
~~Private Bag, Nedlands, Western Australia~~

Dear Dr. Goodall:

If the following publications are available, I would appreciate very much receiving a copy: "Classification, probability and utility." *Nature*, Lond. 211: 53-54 (1966); and "Hypothesis-testing in classification." *Nature*, Lond. 211: 329-330. (1966).

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

April 20, 1967

Dr. R. Chatelain  
Service de Microbie Technique  
Institut Pasteur  
Paris, France

Dear Dr. Chatelain:

If the following publication is available, I would appreciate very much receiving a copy: "Taxonomie numerique de quelques brevibacterium." Ann. Inst. Pasteur, 111: 630-644 (1966).

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taxidmetrics Laboratory

April 20, 1967

Dr. M. Hutchinson  
The Houldsworth School of Applied Science  
and the Department of Bacteriology  
The University  
Leeds, England

Dear Dr. Hutchinson:

If the following publications are available, I would appreciate very much receiving a copy: Taxonomy of certain thiobacilli. J. Gen. Microbiol, 41: 357-366 (1965); and "Taxonomy of the acidophilic thiobacilli. J. Gen. Microbiol., 44: 373-381 (1966).

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

April 17, 1967

Dr. David W. Goodall  
Department of Population Biology  
University of California at Irvine  
Irvine, California

Dear Dr. Goodall:

If the following publications are available, I would appreciate very much receiving a copy: "Classification, probability and utility." *Nature*, Lond. 211: 53-54 (1966); and "Hypothesis-testing in classification." *Nature*, Lond. 211: 329-330. (1966).

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

= Taximetrics Laboratory

April 20, 1967

Dr. M. Veron  
Service de Microbie Technique  
Institut Pasteur  
Paris, France

Dear Dr. Veron:

If the following publications are available, I would appreciate very much receiving a copy: "Taxonomie numérique des vibrions et de certaines bactéries comparables. I. Méthode et matériel taxométriques utilisés." Ann. Inst. Pasteur, 111: 314-333; and "II. Corrélation entre les similitudes phénétiques et la composition en bases de l'ADN." Ann. Inst. Pasteur, 111: 671-709.

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetries Laboratory

April 20, 1967

Harper & Row, Publishers  
49 East 33rd Street  
New York, New York 10016

Dear Sirs:

Please send me an inspection copy of Biological Techniques:  
Collecting, Preserving, and Illustrating Plants and Animals by Jens  
W. Knudsen.

Thank you.

Sincerely yours,

Henry S. Fleming  
Assoc. Professor of Botany

HSF:ch

- Taxinmetrics Laboratory

April 20, 1967

Dr. D. F. Merriam  
MRC Microbial Systematics Research Unit  
Leicester University  
Leicester, England

Dear Dr. Merriam:

If the following publications are available, I would appreciate receiving a copy: "Geologic model studies using trend-surface analysis." J. Geol. 74: 344-357 (1966); and "Quantitative comparison of contour maps." J. Geophys. Res. 71: 1105-1115 (1966).

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/eh

- Taximetrics Laboratory

April 21, 1967

Dr. Stephen S. Tillett  
Comisión Fulbright del Perú  
Maximo Abril 599  
Lima, Perú

Dear Steve:

Your long letter of October 20 arrived last week in our hands. I guess the length of your letter caused people to spend lots of time on it. I hope by now things have quit shaking in Peru and you are enjoying yourself.

One fellow you definitely should look up in Peru is Dr. Jorge Leon who works for the Inter-American Institute of Agricultural Sciences, Andean Zone, and whose address is: IICA, Zona Andina, Apartado 478, Lima, Peru. I think his office is out at LaMolina. Jorge is a very good friend of mine. I have known him for years. His knowledge of tropical cultivated plants is absolutely amazing. He got his Ph.D. under Woodson at St. Louis. He is one of the most sympatico persons I know. *Wash. U.*

I would indeed be pleased to have specimens if you have an opportunity to get them. There are some interesting wild species along the eastern slopes and Ramon Ferrera should be able to tell you where they are. Cesar Vargas in Cusco also knows where a number of these plants are. You will be pleased to know Vargas, I'm sure. They say he is very rich but also sympatico. Good luck and happy hunting.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

P.S. Our address after July 1 will be: Department of Biology,  
University of Colorado, Boulder, Colorado 80302.

- Taximetrics Laboratory

April 24, 1967

Mr. Carlos G. Moscoso  
Agricultural Expt. Station  
University of Puerto Rico  
Rio Piedras  
Puerto Rico

Dear Carlos:

It was a great pleasure to renew acquaintances at the Tropical Root Crop Symposium. I was sorry that you had to leave so soon.

I can give you more detailed information about the proposal made by a committee of the National Academy of Sciences that I mentioned to you at the meeting. The name of the book in which the proposal appeared is "The Plant Sciences Now and in the Coming Decade." This book was prepared under the auspices of the National Academy of Sciences and the National Research Council. It is available from the Printing Office of the National Academy of Sciences, 2101 Constitution Avenue, Washington, D.C. 20418. Its publishing number is 1405. The particular chapter of interest to you will be Chapter 10 starting on page 100 to 114. There is mention of the two crops, sweet potatoes and cassava, on page 105. Other comments of interest to you, I'm sure, are made in that chapter.

I trust that the information in this book will be of interest to you.

Best regards to you and your wife.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

April 24, 1967

Dr. Franklin W. Martin  
Federal Expt. Station  
Mayaguez  
Puerto Rico 00708  
Puerto Rico

Dear Frank:

It was a pleasure to have met you in Trinidad. I trust that we will have a chance to meet again on your home grounds.

I'm sure that you would profit from reading the book entitled "The Plant Sciences Now and in the Coming Decade." This book was prepared under the auspices of the National Academy of Sciences and the National Research Council. It is available from the Printing Office of the National Academy of Sciences, 2101 Constitution Avenue, Washington, D.C. 20418. Its publishing number is 1405. The particular chapter of interest to you will be Chapter 10 which is devoted to various important crops, particularly on page 105 where sweet potatoes and cassava are both mentioned. Perhaps some sort of a push can be made either in U.S.D.A. or somewhere else in order to foster recommendations made in this book by some very prominent botanists.

I trust that you will be able to settle the various problems facing you in the continuation of your interests there in Puerto Rico. I also hope that you will be able to take up the suggestion that we make a collaborative study on the systematics of sweet potatoes. I hope that you have a chance while on home leave to stop in Colorado and see us. As you know, my address will change from the one given on this letterhead to: Department of Biology, University of Colorado, Boulder, Colorado 80302, on July 1.

Best regards,

Sincerely,

David J. Rogers  
Professor of Botany

DJR/ch

- Taxidmetrics Laboratory

March 29, 1967

Sage Books  
2679 South York Street  
Denver 10, Colorado

Dear Sirs:

Please send me a desk copy of "How to Identify Plants" by H. D. Harrington. I am an instructor of B 23 at Colorado State University.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

- Taximetrics Laboratory

March 29, 1967

D. Van Nostrand Company, Inc.  
Princeton, New Jersey

Gentlemen:

Would you kindly send me a desk copy of Davis and Heywood,  
Principles of Angiosperm Taxonomy? I have been assigned to teach a  
section of a course for which this book is the required text.

Thank you.

Sincerely,

Robert C. Brill

RCB:ch

Belém, (Pa.) 9 de dezembro de 1966

Care Rodgers :

É com grande prazer que acuse o recebimento de sua carta e do verdadeiro catálogo sobre trabalhos com Mandioca já publicados.

Acredite que será de grande valia para mim pela orientação que pode proporcionar.

Agradeço muito ao amigo a presteza com que me atendeu e fico aqui aguardando ansioso o envio sobre o trabalho referente à classificação das Mandiocas.

Desejando-lhe um Bom Natal e Feliz 1967, extensivo a toda a família, quede-me, aqui no IPEAN, sempre à disposição do amigo.

Um forte abraço

de

Milton Albuquerque

*Nota - Seguem alguns impressos para o amigo espantar a insônia.*

UNIVERSITY OF IDAHO

MOSCOW, IDAHO 83843



College of Letters and Science

March 21, 1967

Professor David Rogers  
Department of Botany and Plant Pathology  
Colorado State University  
Ft. Collins, Colorado

Dear Professor Rogers:

Dr. Richard M. Klein, Alfred H. Caspary Curator of Plant Physiology, New York Botanical Garden, is applying for the position of Head of the Department of Biological Sciences at the University of Idaho. As you are aware, this is a very responsible position, requiring administrative skill and talent. The candidate should be a man who is thoroughly familiar with good teaching, knows how to recognize when to encourage research, knows how to get federal grants, and above all is an able and dynamic administrator. I should like to ask you a few questions concerning Dr. Klein's ability and talents for this kind of a position. Naturally, your comments will be treated confidentially.

1. Do you believe Dr. Klein has the right kind of a personality to deal with students and colleagues?
2. Does Dr. Klein have the administrative judgment to deal with administrative superiors in giving able leadership to his department?
3. Do you believe he knows how to plan and support a sound program for undergraduate teaching, graduate teaching, and graduate research?
4. Is he well enough known in the profession to be an able recruiter and to have adequate contacts with governmental agencies in Washington to successfully pursue government grants?
5. How would he fit into a university community as a responsible administrative officer and the over-all administration of the department, contributing to the welfare of the university, and adjusting to community life?

I would appreciate your frank and candid appraisal.

Sincerely yours,

A handwritten signature in blue ink that reads "Boyd A. Martin". The signature is written in a cursive style.

Boyd A. Martin  
Dean

BAM/smt

March 23, 1967

Dr. Boyd A. Martin  
College of Letters and Science  
University of Idaho  
Moscow, Idaho 83843

Dear Dr. Martin:

I am pleased to support the application of Dr. Richard M. Klein for the position of Head of the Department of Biological Sciences at the University of Idaho. My comments about Dr. Klein are based on eight years as a colleague at the New York Botanical Garden where I was Curator of Economic Botany from 1957 to 1965. We worked closely together on a number of projects, both formally and informally. My comments are numbered according to your requested list.

(1) Dr. Klein's personality is not flashy. He definitely works well with individuals, and in formal sessions his tendencies towards aggressiveness are controlled and tempered. On occasions where I have seen adverse circumstances where there might have been a clash of personalities, Dr. Klein was able, by his personality, to smooth out an otherwise unpleasant situation. Dr. Klein's personality may not come across on one meeting, but it is my impression over the years that his personality is sound, sensible, somewhat reticent. I believe him to be firm but not dogmatic, pleasant but not cloying.

(2) My impression of Dr. Klein's administrative judgment is clearly an observation. He has never been my administrator and these statements, therefore, represents my observation of him in relation to others. Some of the attributes listed in (1) clearly play a role in this aspect. He will never come to a meeting without having done much work to discover answers so that his judgments will not be snap. In my dealings with him, I have discovered that his bases for judgments are factual, not hearsay. This I believe to be the most critical element as far as your question number 2.

(3) My firsthand knowledge concerning your third question is that Dr. Klein has planned complex programs of many sorts during his career. These give him the basis to develop good programs in teaching and research as head of department. In this connection I believe that

March 23, 1967

Dr. Klein will not be swayed by fleeting, popular, bandwagon-type programs. He will rather be able to suggest a proper blending of that which is new with that which has merit from older activities. Indication that Dr. Klein has these capabilities are the wide ranging efforts he has made in his own research and allied endeavors.

(4) Without question Dr. Klein is an internationally known figure, and his reputation outstanding. His knowledge of the people interested in biology in general, and physiology in particular, is very broad. His personal acquaintances range across the board. From his present position, he is able to keep in touch with Washington's granting agencies very well. I think Dr. Klein can uncover grants in some areas that have been forgotten by most research administrators.

(5) I do not believe Dr. Klein to be "a joiner." That is, he has not (to my knowledge) become a member of any fraternal organization nor has he had much contact with the business community per se. I doubt that this plays a particular role in your choice of a candidate for the position, but if that is a requirement, it should be stated to him as such and I am sure he will either accept or reject this aspect on logical grounds. He and his wife are good hosts in their home. Both are confirmed outdoorsmen and their vacations carry them to places of biological interest. For example, one of Dr. Klein's vacations was spent in the Okefenokee Swamp. This fascinating biological province would hardly be a type of locality to entice any but the most intrepid biologist. In other words, Dr. Klein's life is science and he contributes his total effort towards the development of activities with his purview.

I am a very strong supporter of Dr. Klein. I know of few other men whom I can endorse with such enthusiasm.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

- Taxinmetrics Laboratory

March 10, 1967

Dr. Maynard A. Amerine  
Professor of Enology  
University of California  
Davis, California

Dear Dr. Amerine:

I should greatly appreciate receiving a reprint of your article "The Search for Good Wine" published in Science 154 (3757): 1621-1627, and other allied papers.

Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

- Taxinetrics Laboratory

March 8, 1967

W. H. Freeman and Company  
660 Market Street  
San Francisco, California 94104

Gentlemen:

I would like a desk copy of Comparative Morphology of Vascular Plants by A. S. Foster and E. M. Gifford. I plan to use this book in a new course to be offered at Colorado State University in the Department of Botany.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

- Taximetrics Laboratory

March 8, 1967

Faculty Service Desk  
College Sales  
The Macmillan Company  
866 Third Avenue  
New York 10022

Gentlemen:

I would like a desk copy of Development in Flowering Plants  
by John G. Torrey. I plan to use this book in a new course to be  
offered at Colorado State University in the Department of Botany.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

- Taxinetrics Laboratory

March 7, 1967

Denver Bookbinding Company  
2715 Seventeenth Street  
Denver 11, Colorado

Attention: Mr. Axel Eralund

Dear Mr. Eralund:

I am sending under separate cover 4 issues of Economic Botany to be bound into one volume. Also enclosed with these 4 issues is a bound volume (Vol. 12, 1958) which I would like you to use as an example for the color and position of printing on the spine.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

- Taximetrics Laboratory

January 10, 1967

Denver Book Binding Co.  
2715 Seventeenth St.  
Denver 11, Colorado

Attention: Mr. Axel Erslund

Dear Mr. Erslund:

We are interested in having 4 issues of Economic Botany (6 3/4" x 9 3/4") bound into one volume. Would you please inform us of the cost for having these bound in dark green (#83) with the name, volume number and the year on the spine in gold letters?

Sincerely yours

David J. Rogers  
Professor of Botany

DJR:ch

- Taximetrics Laboratory

February 23, 1967

Dr. Lawrence Stark  
Department of Information Engineering  
College of Engineering  
Box 4348  
University of Illinois at Chicago Circle  
Chicago, Illinois 60680

Dear Dr. Stark:

Thank you very kindly for your reprints and cordial letter.  
Here are a few of my more recent papers in the same vein which  
might be of interest to you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

Enc.

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE  
College of Engineering  
Department of Information Engineering  
(Box 4348) Chicago, Illinois 60680  
Telephone: 663-3423

February 17, 1967

Dr. David J. Rogers  
Professor of Botany  
Taximetrics Laboratory  
Department of Botany and  
Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

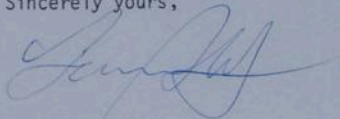
Dear Dr. Rogers:

I am very pleased to enclose a few reprints on my activities on the taxonomy by computer field.

I gather you are the Professor Rogers of Rogers and Tanimoto. I have known Taffey Tanimoto for many years and I certainly admire your work in this area.

I hope you have an opportunity to visit us here in Chicago sometime at your convenience.

Sincerely yours,



Lawrence Stark, M.D.  
Professor and Head  
Bioengineering Group

LS:dk

Enclosures

- Taximetrics Laboratory

February 23, 1967

Dr. Pierre Dansereau  
New York Botanical Garden  
Bronx Park  
Bronx, N.Y. 10458

Dear Pierre:

First, it seems that the best chance to have a symposium will indeed be at the AAAS meetings next December. There was no room for us a symposium on the AIBS schedule.

Concerning the other aspect of our potential collaborative effort, I am pleased to hear you are interested in doing something. Perhaps you will have had an opportunity to talk to Miss Robichaud and have some idea about the nature of our work together. Perhaps we had better not make specific plans at the moment in view of your very extensive schedule, but I will be glad to give you some ideas about possible work shortly.

I, too, have a book to write but hope to be able to put some of the work of writing onto my assistants who really have done all the work.


Reference to your inquiry about Antony Santiago, I have been bothered by this paper on two previous occasions and have turned him down each time. I shan't bother you with the details of why.

Best regards to Francois.

Sincerely,

David J. Rogers  
Professor of Botany

DJR:ch

THE NEW YORK BOTANICAL GARDEN  
BRONX • NEW YORK 10458  LU 4-8500

February 9, 1967

Dr. David Rogers  
Taxometrics Lab  
Department of Botany  
Colorado State University  
Fort Collins, Colorado, 80521

Dear Dave:

I was away (in the Gaspé) when your letter came and am just catching up--what with two courses beginning this week.

Beryl Robichaud is not back from the West Indies yet; so I have not seen her, and discussed your plans, and hers, and mine.

I must begin with the latter before I answer your questions. February-May 1967: teaching in New York, with brief interlude in Portugal in March; part of May and June: Gaspé Spring observations (thanks to new NSF grant; yes, they have "come across"!); mid-June-end of July: teaching field course for N.Y.U. at Sterling Forest; also NE section of Botsoc meeting; August-September: field work in Gaspé; October 1967-March 1968: visiting scholar at Cranbrook Institute of Science; April 1968: return to New York Botanical Garden.

I have two books and at least two very substantial<sup>al</sup> (= lengthy) papers to deliver during that period.


HOWEVER...

I should be willing to consider lopping off a month somewhere to collaborate intensively with you. (It would all be so simple if you were here!) Who would apply for funds, since I understand that funds are needed? When and how would the work be done? Should I contemplate spending that month in Colorado? When?

On the symposium business, yes indeed! BUT would you not settle for AAAS in New York in December 1967? It seems I have to attend that one (I am on committees and things) and I had not intended to go to AIBS in Texas.

Do let me have your reaction to the above as soon as you will. I shall be seeing Miss Beryl soon and will talk this over with her. AND there could be other developments.

Sincerely,

  
Pierre Dansereau

P.S. Included is a xerox copy of a paper by Antony Santiago. He has also published in TAXON 14(2):58-63. 1965. This young man is highly recommended to me by a (non-botanist) friend; it seems he wants to do his Ph.D. in the U.S.A. or Canada. Does he seem good enough for you to take him on? Could you sponsor him for a fellowship? Will you give me an opinion? Thanks.



# COSMIC

Computer Center  
University of Georgia

## PROSPECTS OF ENNEAMETRY IN PLANT BREEDING

A. SANTIAGO

4, Lengkok Abdallah, Kuala Lumpur, Malaya,

Federation of Malaysia

(Accepted: 17-ix-1965)

ANTONY SANTIAGO,  
EDITORY DEPARTMENT,  
UNIVERSITY OF SINGAPORE,  
SCOTT TRENCH ROAD,  
SINGAPORE 10.

ENNEAMETRY is the name given to a logic on co-ordinating, systematizing and numbering devices for information recording, storage and retrieval and for analysis, insight and synthesis of views on materials, classified within a matrix of nine ( $3 \times 3$ ) or of any power of nine ( $3 \times 3$ )<sup>n</sup> positions (Santiago, 1958, 1962, 1965). The word enneametry is coined from two Greek words, *ennea* (meaning nine) and *metria* (meaning measure). Some of the prospects of applying enneametry in plant breeding will be considered presently.

### A. ANALYSIS OF CONSEQUENCES OF INTERACTION OF SELECTION PRESSURE ON PLANT TISSUES AND METHOD OF PROPAGATION IN CULTIVATED SPECIES

Cultivated species may with reference to the tissues for which the species are grown and to the methods of propagation of the species be grouped as in the enneametric Table 1 (Santiago, 1958, 1962).

In cultivated species of positions 1, 2, 3, 4 and 7 selection is strictly against sterility mechanisms. Variation between individuals of a species in these positions is generally for genic characteristics. When there is variation for chromosomal characteristics as in wheat the variants are generally balanced polyploids. Aneuploids do occur especially in polyploid variants as in wheat but they are perpetuated only for experimental purposes.

Some of the cultural practices which in general are very likely to eliminate sterility mechanisms in these cultivated species are as follows :-

1. Selecting seeds for planting material from genotypes and phenotypes which produce high yielding, well developed and healthy seed.
2. Sifting underdeveloped seeds from developed seeds in the wind or by floatation in water.
3. Selecting highly viable seed, healthy and vigorous seedlings and rejecting other seedlings in the nursery.
4. Destroying weak plants in the field in the course of weeding operations.
5. Eradication of sterile plants as soon as detected.

In cultivated species of position 1 the necessarily rigorous standards of selection both to achieve high yields of seed for which the species are grown and for planting material are jointly very effective in eliminating sterility mechanisms.

- Taximetrics Laboratory

January 19, 1967

Dr. Pierre Dansereau  
New York Botanical Garden  
Bronx Park  
Bronx, N.Y. 10458

Dear Pierre:

We are very pleased to receive your three separate papers. I am particularly pleased to receive the *Sarracenia* paper and the Puerto Rico vegetation study. They are very well done.

We are enjoying our collaboration with Miss Robichaud. She is certainly a knowledgeable person and we have been glad to collaborate. Our first computer run is awaiting her arrival next Monday and we trust they will produce something useful for both you and her.

Sincerely,

David J. Rogers  
Professor of Botany

DJR:ch

UNIVERSITY OF CALIFORNIA, LOS ANGELES

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

DEPARTMENT OF BOTANICAL SCIENCES  
LOS ANGELES, CALIFORNIA 90024

December 14, 1966

Dr. David J. Rogers  
Department of Botany and  
Plant Pathology  
Taximetrics Laboratory  
Colorado State University  
Fort Collins, Colorado

Dear Dave:

We are currently in the process of getting members for the Steering Committee, Editorial Committee, and Advisory Council for the North America Flora project. The Steering and Editorial Committees are planning to meet sometime in the next couple of months to lay <sup>out</sup> a method of procedure and to formulate grant requests for the support of the project. Since Bob Thorne has agreed to serve as chairman of the Advisory Council and is thereby an ex-officio member of the Steering Committee I am sending your letter on to him.

I am sure that the project will require the collection of a great deal of data, but at present it is too premature to know just how this will be handled.

Best wishes for a Merry Christmas,

Sincerely,

A handwritten signature in cursive script, appearing to read 'Mildred E. Mathias'.

Mildred E. Mathias  
Chairman  
Organization Committee

MEM/tn

cc: Robert Thorne

*See over.*

- Taximetrics Laboratory

November 30, 1966

Dr. Mildred E. Mathias  
Dept. of Botany  
University of California  
Los Angeles, California 90024

Dear Mildred:

I am responding to your recently circulated notice, the Preliminary Report, of the Organization Committee. I note in particular the formation of an Advisory Council.

Since we are in the process of devising a computerized information retrieval system for biology, I thought the committee for the Flora might be interested in knowing of its development. Since we have in mind the kind of system which will be able to handle the hundreds of items of information needed for each specimen that students who will work on the Flora will have to cope with, I thought that it would be profitable to have on the Council at least one person familiar with such techniques.

I know that at the first meetings on the advisability of a North American Flora there was some discussion of the use of the computers for the studies. I fear (from what I read in the report prepared by Bob Thorn) that there was a great misunderstanding of what the proper role of computers might be. I do think that computers can be used in a sort of bookkeeping role, which I think our information retrieval system will provide. If the computer is used to keep track of the myriad specimens, their collectors, the allied information of location of the specimens, dates of collection, etc., etc., the students of the Flora would be relieved of much of the trivial, though important, work needed in the preparation of the Flora.

I have talked about this particular problem with Askell Löve, and he feels very strongly that such a system as ours should be adopted by the committee. If you have any interest along these lines, I could send you descriptive information about our methods, in hopes that it will fill a need.

Sincerely,

David J. Rogers  
Professor of Botany

Preliminary Report

GUIDELINES FOR ORGANIZATION FOR FLORA OF NORTH AMERICA REPORT

Organization Committee: Ad hoc committee appointed by the Council of the American Society of Plant Taxonomists. Charge: Appoint chairman and members of Steering Committee, Editorial Committee, and Advisory Council. Committee to disband after completing this function. The final report of this Committee will be published in Brittonia and Taxon.

Steering Committee: Composition: Ex officio members: chairman and secretary of the Editorial Committee, chairman of the Advisory Council; other members: eight or nine to be appointed initially by the Organization Committee, one of whom will be designated chairman. Term of service: the committee will function for the duration of the project with the non-ex officio members serving on a rotating basis; a term of office of possibly three to five years will be determined by the committee and a rotation system established at its first meeting; the committee will appoint its successors; it is suggested that all members of the initial committee serve at least three years before initiation of a rotation system. Charge: the corporate body which will concern itself with all business aspects of the flora, applications for grants, budget, publication and distribution, copyright, etc.

Editorial Committee: Chairman, secretary, and probably seven other members to be appointed by the Organization Committee, to serve for the duration of the project; replacements, when necessary, to be made in consultation with the Steering Committee. Charge: preparation and all editorial aspects of the flora; it is expected that the members of this committee will invite contributors, will through its chairman and secretary maintain a close liaison with the Steering Committee, and will seek advice and assistance from members of the Advisory Council.

Advisory Council: Chairman and members (40-50) to be appointed by the Organization Committee, to serve for the duration of project; additional appointments, if desired, may be made by the Steering Committee. Charge: to provide advice and to assist individually in any aspect of the flora project for which their talents may be suited.

Mildred E. Mathias  
Chairman, Organization  
Committee

MEM/tn

- Taximetrics Laboratory

January 31, 1967

Mr. Donald F. Kennedy  
Project Director  
Computer Software Management and  
Information Center  
COSMIC  
The University of Georgia  
Computer Center  
Athens, Georgia 30601

Dear Mr. Kennedy:

Enclosed write-up is sent according to your interests in your letter of January 23. We look forward to receiving the directory of computer programs. Thank you.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR: ch

Enc.

COMPUTER SOFTWARE MANAGEMENT AND INFORMATION CENTER  
COSMIC

THE UNIVERSITY OF GEORGIA  
COMPUTER CENTER  
ATHENS, GEORGIA 30601  
(404) 542-3265

January 23, 1967

David J. Rogers  
Professor of Botany  
Department of Botany and Plant Pathology  
Taximetrics Laboratory  
Colorado State University  
Fort Collins, Colorado 80521

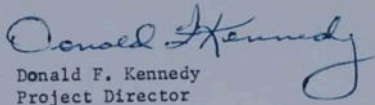
Dear Dr. Rogers:

Thank you for your letter of January 16, 1967. As you requested your name has been added to our mailing list and you will receive the directory of computer programs in the near future.

We would be happy to receive from you any documentation on computer programs that have been prepared under NIH grants.

We appreciate your interest in COSMIC and hope that we may be of service to you in the future.

Sincerely,

  
Donald F. Kennedy  
Project Director

DFK:pgj

- Taximetrics Laboratory

January 16, 1967

COSMIC  
Computer Center  
University of Georgia  
Athens, Georgia 30601

Gentlemen:

Please place us on your list to receive inventories listed with abstracts of the NASA programs.

Are you by chance considering listing any programs written under NIH grants? If so, I will be happy to send you flow-charts, documents and abstracts of our biological similarity-clustering program.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

HENRY L. WOUDHUYSEN

SCIENCE EDITOR  
PUBLISHERS' AGENT

3343 SEDGWICK AVENUE • BRONX, N. Y. 10463 • KI 6-1754

November 19, 1966

Professor David J. Rogers  
Department of Botany - Taximetrics Laboratory  
Colorado State University  
Fort Collins, Colo.80521

Dear Professor Rodgers:

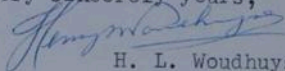
I wish to acknowledge receipt of your letter dated November 15, 1966 and for the important information it brings me.

Following your suggestion I have contacted Professor McNeish at the University of Saskatchewan.

I have taken good notice of your position on the status of the origin of economic plants.

Grateful for your assistance I remain with personal regards,

very sincerely yours,



H. L. Woudhuysen.

cc Dr. E. van Tongrren, NHP.

*Gen*

- Taximetrics Laboratory

November 15, 1966

Mr. Henry L. Woudhuysen  
Science Editor  
3343 Sedgwick Avenue  
Bronx, N. Y. 10463

Dear Mr. Woudhuysen:

I fear that the answers that you seek in your letter of November 9 are beyond me to give. To take a "new look" at the origin of cultivated plants would require much more than editorial advisory boards, in my estimation. What is needed is another Vavilov who could demand and get a whole experiment station devoted to the multitudinous endeavors required to carry forward any further investigation. There are, in addition, crying needs for an endeavor which I term archeoethnobotany. I know of only one person at the moment who is carrying out such research. He employs the team approach. He is R. S. McNeish, now I believe at the University of Saskatchewan. His efforts probably will lay good foundations under the studies of the origins of economic plants.

Combine McNeish with Whitaker, Mangelsdorf, Stebbins, Schwanitz, Hutchinson, Yen, C. B. Heiser, and a few others and you might have something to talk about.

We have about mined all the gold that we can in general studies. Now we need specific research and this is a long costly affair. I may be wrong, but I don't think we are ready for another "origin of cultivated plants."

Sincerely,

David J. Rogers  
Professor of Botany

DJR:ch

HENRY L. WOUDDHUYSEN

SCIENCE EDITOR  
PUBLISHERS' AGENT

3343 SEDGWICK AVENUE • BRONX, N. Y. 10463 • KI 6-1754

November 9, 1966

Professor David J. Rogers  
Department of Botany and Plant Pathology  
Colorado State University  
Fort Collins, Colo.

Dear Professor Rogers:

I read with considerable interest your review in "Science", September 21, 1966 of Prof. F. Schwanitz' book "The Origin of Cultivated Plants", for the following peculiar reasons.

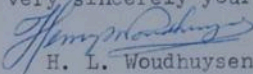
As the editorial adviser to North-Holland Publishing Co. of Amsterdam I was told that Dr. Riley in England thought that a new work on the same subject, in which new discoveries and concepts should be incorporated, was needed, and he directed me to Prof. Stebbins, Davis, from there to Dr. Whitaker, La Jolla and Dr. Mangelsdorf, Cambridge. They all welcomed the idea with some degree of enthusiasm, and advised to seek also the cooperation of Prof. Schwanitz. These gentlemen would form an editorial advisory board for a collective work, each co-author dealing with one of about 15 cultivated plants.

There was only one difficulty, none of these sponsors could find the time to assume the chairmanship of such an editorial board, and so far nobody could be found outside their circle to take on this function, involving the practical work.

So we remain with a few questions. Are there major factors pleading for a new and extensive treatment of this subject? Would there be, outside the initial group, other centers of similar research, which could be approached for the active editorship? Would you judge the positions of the above group as representing a breakthrough in the standard concepts of this sector of evolution?

I hope that you will forgive me for soliciting your advice on this matter, in which you undoubtedly possess the knowledge I may be lacking.

Thanking you so much and with due regards I remain,

very sincerely yours,  
  
H. L. Woudhuysen.

cc. Dr. E. van Tongeren, NHP.

- Taximetrics Laboratory

January 4, 1967

Mr. John R. Adney  
Miles,  
Iowa 52064

Dear Mr. Adney:

I have forwarded your letter requesting information and spare textbooks to Dr. Richard Pohl at Iowa State University, Ames, Iowa and suggested that it would be likely that he would have items useful to you. I am sorry to report that I have no spare books along the lines requested by you, but I think perhaps Dr. Pohl may be able to help.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch

- Taximetrics Laboratory

January 4, 1967

Dr. Richard Pohl  
Department of Botany  
Iowa State University  
Ames, Iowa 50010

Dear Dick:

The enclosed letter was sent to me for some unknown reason. I would not know what he wants, but I suspect that you folks might have available to send him some extension publications free. Anyway, Miles is in Iowa, not Colorado. I hope you can take care of him.

Happy New Year!

Sincerely,

David J. Rogers  
Professor of Botany

DJR:ch

Enc.

- Taximetrics Laboratory

November 15, 1966

Dr. Robert Brsach  
New York Botanical Garden  
Bronx Park  
Bronx, New York 10458

Dear Bob:

I have been meaning for some time to ask if an old editor of EB could pry loose all of the issues of Volume 17, 1963. Somewhere, somehow my bound volume got lost even before we left NYBG. I frankly don't feel like paying Stechert-Hafners costs on that. However, if you can't spring loose those four issues for me, I will pay for them. Let me know if you can hack it. Thanks.

Sincerely,

David J. Rogers  
Professor of Botany

- Taximetrics Laboratory

November 7, 1966

Mr. R. Gordon Wasson  
42 Long Ridge Rd.  
Danbury, Conn.

Dear Mr. Wasson:

Enclosed is a photo of Amanita which may be of interest to you. The specimen was growing in an open grassland with scattered pine trees at 8,500 feet. The climate was cool and damp (at least when we were there in July). There was no evidence of habitation for some distance, although I am sure there were numbers of people living in the vicinity. The locality is along the highway which connects the city of Durango and Mazatlan in the state of Sinaloa.

I hope this is useful to you.

Sincerely,

David J. Rogers  
Professor of Botany

DJR:ch

Enc.