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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.

UNIVERSITY OF COLORADO

BOULDER, COLORADO 80302

DJR
personal

Department of Environmental,
Population and Organismic Biology

April 1, 1974

Dr. David Rogers
Crop Ecology and Genetic Resources Unit
FAO
Via Delle Terme di Caracalla
00100 - Rome
ITALY

Dear Dave:

Your letter came very promptly - written the 22nd, here on the 26th or 27th. Better service than we get in U.S. at times - but of course we seldom have personal couriers as this letter had.

Despite the shortcomings of FAO I hope you can make yourself enjoy the exotic scene while you can. I agree that you can't settle for professional stagnation for too long a period, however. It is a tragedy that there must be such a gap, in some cases, between intent and achievement - e.g. FAO's intent and its facilities for achievement of that intent. Despite the shortcomings of U.S.A. in many ways, it still beats any other place in a lot of respects.

It is fortunate that we had not yet committed your salary to a replacement. We had planned to hire most of 2 people on it, and to have them teach 3 sections of general biology plus Principles of Ecology this fall, and a miscellany of advanced courses next spring. If you decide to pick up your CU contract next spring, I'll attempt to get authorization for use of your fall salary for just one-semester replacement appointments. If you want to resume CU work this fall, we'll absorb the load some other way. All of this subject to the willingness of CU to cancel your leave as of this September or December. I will try to corner Briggs (he's been away on Spring Break) and append his reaction. In any event, obviously we should make no replacement commitments until we know for sure what you want to do. Do let us know, of course, as soon as possible. Marr has been screening candidates, but they are all local.

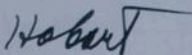
New Developments include approval of C. Norris to act as Chairman next year, and of tenure for Nichols (both now subject to Briggs' approval); request by Carl Bock for a 4/5 leave next year to catch up on his research (also now under consideration by Briggs); career development grant (5 yrs.) for Dick Jones, beginning April 1; approval of a 3-yr. appointment renewal for Linhart and tenure for C. Bock; transfer of J. Windell from DOB to DEB, Williams from DEB to DOB; Segal to Chm. DOB, replacing Jones (no administration permitted on his grant). No progress on space assignments. Thieme proposes a Chancellor system for the University, he remaining as president over the 4 divisions

(Med. School, Boulder, Denver, Springs), Crowe as the Boulder Chancellor. Long bill has a 6-8% salary increment provision - at the moment; no telling what we'll get in the end. Faculty voted (narrowly) to unionize; Regents are to decide with which union. Much other trivia, not worth noting.

Hope your prospects there improve - things can only get better, it seems, from what you describe.

Our best as always.

Very sincerely,



Hobart M. Smith
Chairman

HMS:ds

April 4, 1974

P.S. Have just returned from Briggs' office and am glad to report that he is disposed to approve your reappointment on salary here at either the beginning of the fall semester of this year, or of the spring semester next year, or of the fall semester, 1975. All we need to know is when - and that as soon as is humanly possible. We had planned for two people (actually 1.75, the other 0.25 coming from other sources) on your salary, and to that end have scheduled all of your courses to be absorbed either by these replacements or by current faculty. Richardson has Plants & Man, Webber has the Plant Kingdom, Bushnell Ecology for Man; your replacements were to have handled 3 sects. of 101, Principles of Ecology, Oceanography, Evolution and Speciation (Grad Course), Taximetrics and a seminar course (henceforth all seminars are to be 2-hr. courses, and many are new, formalized offerings patterned after Psychology's multiple seminar offerings, all in direct line with the research specialties of our individual members). I can upset Richardson's and Webber's plans, or have you absorb some of the load your replacements were to have carried. I hate to do the former, and you no doubt hate to do the latter, so we need to weigh and explore. If you return to our budget as of Spring, 1975, the adjustment would be less, for you could handle Taximetrics plus Evolution - Speciation or a seminar; the other courses are all scheduled for the fall, and we would be permitted to employ at least one person to handle fall essentials.

Whatever you want to do, we can arrive at a mutually acceptable arrangement; fit your own needs, and don't worry about our adjustments. Just let me know as soon as you can! Thanks much!



UNIVERSITY OF COLORADO

BOULDER, COLORADO 80302

7c-2/12

DGR planned

Department of Environmental,
Population and Organismic Biology

May 17, 1974

Dr. David Rogers
AGPE
FAO
Rome, Italy

Dear Dave:

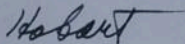
Carl Bock and Pat Webber have regularly used Odum's Fundamentals of Ecology for 341, so that is what we'll order for class use in your offering of it this fall. Olwen will teach it in the spring, but hasn't chosen her text yet. She assures us she will not use Odum, because she thinks it loses sight of the forest in counting the trees. However, the instructor should be able to minimize that deficiency.

Thank you very much for your good-willed adaptation to our pedagogical predicament. It is a major imposition for a man of your stature, but is a product, I hope you realize, of circumstantial crunch, not of design. We shall try to extricate you from the strange entanglement as soon as we can.

Things are certainly far from static here. We now have Bernstein (population ecology, ants), Lewis (Limnology), Bekoff (ethology) and Mitton (genetics) engaged for this fall, with 3 more new positions requested and still possible. It will be a new department this fall. Already the old structure is crumbling, with a decision at our last meeting to dissolve our divisions as of this fall. Next year we plan also for Phase 1 of our space adjustment (remodelling of vacated top 3 floors of Ramaley), to start summer, 1975; Phase 2 (1976-77) will be remodelling of Hale, move of Microbiology and General Biology to Ekeley East, Hale occupants to Ramaley and Psych 1C; and Phase 3 comes in a few years with complete assignment of 1C to EPOB. By that time we deal with such distant futures that my vision is dim. Anyhow life holds no promise of being dull.

We'll look forward to seeing you at the start of the New Fiscal Year (July 1), or thereabouts.

Affectionately,


Hobart M. Smith
Chairman

HMS:eo

PLANT PRODUCTION	
R'd:	-7 JUN 1974
REFERRED TO:	Initials
Dr. Rogers	

UNIVERSITY OF COLORADO

BOULDER, COLORADO 80302

DEPARTMENT OF BIOLOGY

April 11, 1974

DTR pers.
Sent through
Buchanan

Dear Dave and Connie,

It was good to speak to you last week although a bit frustrating. I can imagine what it must be like at FAO. I am sorry that I am not there with you to discuss and plan - it seems to be a cup of tea for me and a real drag for you.

In this letter I will try to cover a few points. I will report on the Washington trip and what is germane to the work on genetic resources and what some of the people there want us to do. I will then report on conversations with USDA, then with Bob Bird of Cimmyt, then of things happening with respect to the computing center and last a report on subsidiary items including things at the biology department, DARI, and campus in general. The second part will be some ramblings on strategy that we may wish to follow or not as you see fit. I will incorporate some comments on work which we might do while at FAO and some lists and such you can gather now (if you don't have them already).

1. The trip to Washington can be divided into two parts: USAID and USDA.

In USAID we saw the following people and discussed various things with each:

(Harold Rice, Marty Foreman) (Irwin Hornstein and Robert Kahn) (Russell Olson) with these folks we discussed our project in Nigeria. They were pleased with what we have done to date and Foreman wants us to continue, and after a rather harrowing experience at lunch with him on the second day we were there, he concluded that we would be the best team to continue the project. He wants us to conduct a seminar/workshop conference in Nigeria for Nigerian decision makers on our findings. He expects that the Nigerians will then determine a course of action concerning a possible intervention plan that we can then help them plan and execute. This would be done in conjunction with the USAID mission in Nigeria (Olson). They are interested in the project and wish to assist us and possibly use us as consultants in further work that is related. (As you know they have the result of a very major study made by two consortia of Land Grant Universities from the US on how to increase the Nigerian Food Supply. One of the aspects of this work is the increased production of cassava and work to improve it (whatever that means). The report of the Consortia is long and has been very expensive. Olson, who is an Iowa State Ag. Economist, is impressed with the scope of the study but is sure that there is no transmission vehicle for getting from pretty theory into real results. He is clever enough to know that it is not merely an "extension" problem. He wishes to use the Foreman generated workshop conference on cassava as a test case to see if it works and if we can prepare it in such a way as to come up with a workable program that then can be the transmission vehicle. He also believes that the work done by the Consortia does not cover the salient points of consumer needs nor what has been termed by such as the Distribution Sector.

Olson likes our methods and our approach and is impressed with me and Jay (and was with you and knows of Chuck) and wants us to put on the Cassava show. If it works well he may ask us to put on shows for the other crops using the same intergrated methods. He is interested in our training personnel who then can continue to monitor and understand the work. He is now back in Nigeria and he will plan the conference from that end. He expects to use IITA as a host institution. Foreman will provide the necessary and sufficient funds to pay us ~~and cover our costs~~ and cover our costs for the conference.

Foreman is now our friend- as Harold suggests- he is pleased with our work and wants us to be stringers for him. If we do well with the Conference Harold thinks Foreman will keep us in work if we want it. It is even remotely possible that we may get a 211D contract for improving the CU'S capacity to do this work for USAID. But this is a long way off at the moment.

Horstein hinted at the possibility that USAID might want Jay and I to work for them. I'm under the impression that this would be on a contractual basis as I've suggested above. This would not exclude you or Chuck but they understand that we are not faculty here.

(Litzenberger and some of the people in the AG shop)

The people in the agriculture shop who attended our working session were impressed and interested in our work. You would have been amazed at the number of ag types who oohed and aahed at what we said and all of who suggested that they always knew that something should be done about cassava, etc. Even Sam was a little bit "I knew it all along" although he admitted that they have always given short shrift to cassava.

The ag people are interested in pursuing the work on cassava although it has become somewhat clear that cassava is not in their portfolio- it belongs to Nestle. Sam, however, wants badly to do the collection of the wild species as we have suggested- although he is not clear how this best should be funded and handled from the USAID's standpoint. He suggested that we should take out a \$25k grant not only for planning ~~but~~ but for some initial collection especially of those species which ~~we~~ might lend to 1) drought resistance due to the tremendous problem in the Sahelian region of Africa and those which will assist in 2) protein increase, 3) resistance to various pests. I told Sam about your doubts in #2 but he said he still wanted this tested fully.

He also stated that he did not like what he perceived as the Nestle strategy (CIAT'S) on use of cassava as an animal food or an export crop only. He is sure that there is a place for this but it is not in Africa. He wants us to continue using our methods to do a classification of use areas to make sure that the end use strategy and the breeding programs match the defined needs. He has heard our argument and agrees. He is a firm friend. He also told us that it is unnecessary to make these ~~to~~ to Erwin Long who has an interest and who will make the decisions. (I will go into this in a minute- in fact Sam was so infatuated about us seeing Long he almost shook. I told him how hard it was to get an appointment with Long- and he said "...go sit on his doorstep..." Curt was along and was listening to these conversations.) Oh yes, for the larger collection project Sam said he would help us apply for a 99 406 grant which he has some say in and which is jointly funded by USDA. It is for developing tropical competence and institute for banana and plantain collection

He also said that someone should begin to look at the egusi (the seeds from Citrullus vulgaris which are used in making the soup. These are a major source of proteint and no one knows much about them - we pointed out their importance.

We also discussed the following with sam:

The problems of genetic resources information systems and in general genetic-resource information for agriculture. He told us that he did not realize what our work wast with Taxir/exir and did not really know of our considerable interest and investment in this area. He said that he has pushed for a long time for there to be a standard system which could be used by all the people involved in genetic resources (he wiese listed off a number of people in ehee- this country- I have the list). He also suggested that Quentin Jones would be very interested as well and we should speak to him at once.

He also said that Hawaii had just been given a 406 of \$500k to develop an information system and felt that we had been missed- just as we had been missed in the Georgia case- and he was frustrated. He told us who to contact so we would not reinvent the wheel. He suggested that he would do everything he could to get us some assistance in this area although he had no funds he might assit in getting some sbb contracts.

He then turned-a- turned around and suggested that he might be able to get us some invitational travel money from USAID and some travel consulting time to ~~visit~~ visit all the places that have Infor Sytems needs and to speak to them and so some demonstrating. I am sending him a copy ~~summary~~ of the ZEA project. He liked pp our paper and agreed with our general approach. We will have very much more to say to sam.

It is also being suggested by Harold that Sam has a very ~~def~~ definite interes in the area called research application which takes the product post farm and moves it toward the concumer. It is the entire range from productio to final nutrition and agrees that it should be done jointly with the new= nutrition shop. (in fact the relations ~~wha~~ between ag and nutrition are more than excellent now). It is possible that Harold will land in this job and it may be that he will be valling on us to do some furhter work under the ag banner.)

Bob Simpson-

Bob is the key man (if not the chief) of the Latin American planning bureau. He is not a TAB person anyomere ~~but~~ a program officer-meaning that he has his hands on those who have their hands on money. Harold describes it like this. The program officers in the missions in Latin America draw up the programs that are needed for their areas, and then they present these programs to Bob's team for scurtiny, criticism and approval. Bob has a lot of impact in suggesting programs and suggesting their changes if he sthinks this should be done. He is very interested in ~~nutritio~~ nutrition type prgrams and greatly believes in our work to date. He thinks there will be work for us ~~in~~ in Latin America if we want it. In fact he is pushing hard a proram for Haiti and wanted to know if we could do the same thing there as we did w- in Nigeria. He also suggested that we get to see Long concerning all of our cass-va observations and those which affect

Rogers 4

Simpson is a good man and he feels we've done a good job for USAID.

We saw a fellow who is somewhat a counterpart to Bob in the Africa missions area- he works for Princeton Lyman who we met before. He is also mightily interested in these problems and is willing to assist was also interested in our work. We tried to convince him of our desire to train some africans in the methods as they could use it in other areas. He wants us to go and work in Zaire again although he has no direct control over the mission. He told me that David and Neptune are leaving. He then introduced me to the new man who will be the program officer there. (He was not very bright- I fear and was more interested in what food they had that he could buy for his own use since he was a vegetarian, then he was in the problems of USAID- this was confirmed in a later meeting with Erwin Long).

Erwin Long-

At first Long was busy preparing for Senate hearings- then he was busy preparing for some trip that he would have to make and told us that he could not see us although he was interested. Old Curt pulled out his Dean's title and he got us 30 minutes with Long and then some of the trips were cancelled and some of the hearings ended and he spent the better part of two hours with us.

He remembers you fondly as the leading expert on cassava in the world, etc.

He was very interested in our work and probably wishes to see it continue. He is sure that Foreman, Litzenger and Simpson will find ample work for us/ this meaning that he would have nothing of an institutional nature for us/ but then we discussed the collection of the germ plasm and some of the political complexity involved. I mentioned that Sam wanted it done and the problem was how to do it and integrate all the political persons and institutions involved. He said that it should be done and done right and that we should submit a memo to Litzenger which would come to him. The memo should include a total plan with the proper briefing on the politics- he said not to worry about the money amounts- just the memo. He would then get together with Sam and others (Cuy Baird who is interested in the interrelations of the agencies like CIAT- etc.) and would determine what USAID's role should be and how it would then proceed. Long is very sensitive about stepping on the Canadian's toes. He wants this soon and I had a copy of a plan ready- but did not present it because it was not constructed as he wanted it. He'll have it by week's end.

We then discussed the entire problems of cassava strat and coordination. He was concerned that a good systems approach may not have been used to set proper priorities and ~~coordinate~~ coordination- and that he is interested in this being done as soon as possible. He asked us for a cassava strat. memo which he could use as a talking document to see what USAID's role might be if any and to see if we might be the external agency that can assist as analysts in putting together this strat. (no dissimilar to what you did at first for the Rockefeller people). We can provide him with this and then see what happens. He was very cordial and very interested in what we have done- and has a good idea of what we may want to do. He may decide to do something with us and he may decide not to. It is up in the air but we must respond- at least the collection is in your hands.

Overall, then the USAID protion was good and we have done some good work for them and they know it. Some of the people with money or who can influence money would like to employ us in several arseas- but exactly how this will take place is unclear. We do have a continuation committment from B reman so we will not run dry at once. The others would like to find the links to work weeh with us and in time may do so,

It is necessary to follow up loseley with Litzenger on the collection and the information systems that we have. This is promising and he will pay us for an excuse and when he has money. He is a good ~~an-~~ man and he is most cordial.

I went over to USDA to see ~~SOOY~~ SOOY. I demonstrated the system EXIR on data he sent to us (1500 records of guar, Cyamopsis tetragonoloba. from Fort Collins). He was mighty satisfied with the demonstration as were a few others in his shop. He wanted us to meet the boss and we did. This fellow- a Ron something thanked us for helping Dick Sooy and for helping them. They did-'t know w-- how they were going to hack some of the infor problems before we came along.

Sooy mentioned the following:

- 1) could we assit in some way to convert EXIR to the univac 1108 that has been installed for USDA at Fort Collins?
- 2) how might we continue working on the development of EXIR jointly given that there is somework to be done on it and the USDA should have the general system for its own purposes.

He- I asked he what would be the source of funds- he told me that in both cases it would be Quentin Jones. He said that the 5 imer is straight forward and should be no problem. The later is outside of his perview and I could talk directly with Jones but Sooy was convinced that it should be EXIR and that we should be the team with whom USDA works.

Naturally I called Jones: Here is the following summary=

Jones was cordial to us and was interested in your well being. I did not mince words about some of the coordination difficulties with FAO and he was empethetic. He was sure that there was a solution somewhere. He was interested in our approach and could be interested in ~~using-some-money-ov-~~ contracting with use to do some developmental work with EXIR and USDA if it could be available to all USDA personnel. He said that for the first time there was a request for funds to do such systems development and that if congress passed their beill it would be available this year. He said thta the USDA computing shop (sooy) had the right offrist refusal in ~~using-the-~~ using the funds but that if they wanted us they could buy us. He said that he would keep us poseted and to daty in touch with him and that he would be amiable to a memo (in lieu of an actual proposal) to do this work for USDA.

I think this is hot and will continue working with J he on it.

I spoke to him twice about the Hawaii contract. It turns out that the rant to Hawaii is not solely for an information retrieval system but to gather and they is know about tropical for. Documented and

I agree with him and will be in touch with a Ken Haynes at Hawaii/ as well as others who might be interested in the existence of the system. I will attempt to put together a preliminary ~~brief~~ briefing memo for both Litzenger and Jones so they can see what we are doing and what we want to do at the same time. Both want copies of the ZEA run- and hopefully I will be able to get them copies of VIGNA as well./

OKay- no where are we,

Yes, I spoke to Robert Bird at CIMMYT, He told me that a group of experts from the GRC/TAC (two men) came through to see what the computer systems needs of the GRC was and these men will be calling at all of the international GRCs and then issue their report. He said that they were interested mostly in statistical needs and financial needs of the organizations and really did not know what they were doing. Further they asked the questions from the scientists and the sci-ists did not know how to respond (as we have said in our paper). The meetings lasted a few ~~day~~ days and these folks went off to the next center. It is imperative that we get to these analysts or to the TAC to discuss this type of research. It is further of great importance that we see that an overall systems strat as we have put ~~together~~ together is used by the TAC. Can't we get pincot to do some good on this? I really feel that we will have the ball slip between our fingers if the ~~paper~~ paper moves are not made to the TAC? What do you think. Can you get the names of the TACs and we can send them our paper with a short covering memo and maybe a sample of the zea work- and comments of what we have seen and how these problems may be handled (including your work at IZMIR). It is urgent that we get an ~~introduction~~ introduction point to the TAC and take over some of the strat. formation for them. I have several ideas waltzing around my mind as to what we might do with FAO and the TAC if we are spry on our feet. An analysis of the fears and needs of both groups is necessary to ~~propose~~ propose a plan that both can accept and which may permit us to be the contractors for both sets of needs. Of course I'm probably guessing at this ~~point~~ point and your on the spot s' y u'll have to ~~see-us-k~~ determine what you think best.

I wish to offer the following to you though:

- 1) it is important to get what we want and to do the best job for the needs that we see. Our paper pointed to this clearly but it is not out yet, and there are already need to revise it give some more knowledge that we have.
- 2) we have done three pilot projects (S lanum, Zea and Guar) and will do one more Vigna (which is from Rachie at IITA=~~is~~ and is the only breeder oriented project). We can revise the paper and have salinet points of these ~~three~~ four ~~three~~ pilot projects put together to present in R me. Copies of this work can also be sent to members of the TAC and members of the GRC group around the world. The memo will have to carefully written to assume that the material is read and understood. The demonstration and the paper will serve as appendices. This can be put together here and when we get together. It can serve as the briefing document for the TAC and others. We can also use this as our final report to NSF and to CU. Further we can use it as the basis for a proposal of how to procede to the various agencies. If you agree let me ~~hear~~ hear from you on this very soon. I think it is important to use our remaining NSF funds to do this piece of work if necessary.

Rogers 7

We can use these funds because we will have met our commitment to Jim with the FAO consultancy you have arranged. If more work/contracts, & consultancies are forthcoming then we continue- if not there is no use' having a few thousand in the fund if we could have used the money to further our purpose. Right now we have a fund balance of about \$4000.

I'm somewhat weary now and wish to terminate this report for the time, I will ~~never~~ cover only one section which should be of interest:

the bio department and the dean (sawin) are interested in our proposed introduction to quantitative methods and the computer, and the computing center has turned on the yellow light to proceed with a proposal which Jay is compiling. It will be in their hands by 4/20. You may return to a project which you desired several years ago. The project will include the ~~development~~ development of EXIR to a point for use in research and teaching, the placing of that program in the computer library and the installation of graph and charanal in the library as well. If nothing else we go something established!!!!

Hobart says and answer has gone off to you concerning you leave. I think that it is okay- enclosed the minutes from the faculty meeting last.

Also- please cool off on the use of DARI as the means to carry out this FAO work. Dari may be a good place to do it but it also may not be. It may be more to our advantage to institutionalize some of it at The TAXlab at CU. Curt agrees in part and Crowe (to who Curt reported after the DC trip) is somewhat enthused. He was glad to see your work paying off and is amenable to assist in certain ways (maybe reduction in overhead charges). So go slow on DARI because McMillian wants to go to fast.

Time to say goodbye

I hope you don't frighten with my typing

love--e love to connie

Gil
c11

PS- your request for reprint
send's has arrived - I'll take
care of it

PS

There are some problems with the book (manuscript of North America)

first-the charges for Gammon are being picked up by us but we don't have as surfeit of funds.

Second- the publisher has said that the costs of printing bringing it out now maybe 20-30 % higher than estimated three years ago. Inflation in the industry is that much. He said that he doesn't know where those funds will be found either, since the press is \$10k in the red at this time. He certainly did not have the money to pay Gammon for redoing a good deal of the layout work,

Third- we called appan to make some of the layout decisions. I asked Gammon to tell him that he would have to come up with some of the costs for here- her time and that there might be even be more costs associated with the book by the time it was out.

Appan said he could not undertake this since there was at least a \$20k budget to cover the book and Gammon's work. She told him (at my prompting) that there was only \$10k/ He did not believe her and asked for letters from the press (Schwartz). These were sent to him. He said that he would lay the problem to rest on your shoulders- although I told Gammon to say that you had instructed her to contact Appan with any problems after you left for Rome. At this date I can only assume that Old Appan has washed his hands of the matter or is referring to you.

We will not have the money to pay for subvention beyond the \$5000 from NSF and we will be able to pay for Gammon for another account if

you want, we to do this but I think think the pressure should be on our Indian friend if he really wants the book out.

Advise me on this- if you please.

G



FOOD AND AGRICULTURE ORGANIZATION
OF THE UNITED NATIONS
Via delle Terme di Caracalla, 00100-Rome
Cables: FOODAGRI ROME Telex: 61181 FOODAGRI

TERMS OF EMPLOYMENT

Director and Professional Category

1. NAME ROGERS, David James		2. INDEX 76559		3. PERMANENT RESIDENCE, established for administrative purposes, e.g., appointment travel, removal expenses, home leave, repatriation, currency of salary payments Boulder, Colorado, U.S.A.			
4. DURATION OF APPOINTMENT Three years SR 302.411/12			5. PROBATIONARY PERIOD <input checked="" type="checkbox"/> One year <input type="checkbox"/> Six months SR 302.411/12		6. PROPOSED ENTRY-ON-DUTY DATE 1 May 1974		7. DUTY STATION Rome, Italy
8. DIVISION Plant Production and Protection			9. TITLE Genetic Resources Documentation Officer			10. GRADE, STEP P-5-VII	
11. GROSS SALARY Subject to deduction of Staff Assessment (equivalent to a withholding income tax in the UN salary system): Equivalent US\$ 33,330.00 per annum							Staff Rules (SR) SR 302.301 Staff Regulation 301.131
12. EMOLUMENTS per annum Net Base Salary: the rate of actual salary after deduction of Staff Assessment (but excluding social security deductions) Equivalent US\$ 22,932 Post Adjustment: (plus or minus) payable in currency of duty station and subject to increase/decrease with fluctuations in cost-of-living (Manual Section 308, Appendix D), at present class 132/5 plus 1,336 Dependency Allowance: spouse 400 children up to 18 years of age or up to 21, if attending school 300 secondary dependent - Assignment Allowance -							SR 302.302 SR 302.313 SR 302.303
13. CURRENCY Salary and allowances are payable in the currency of the duty station in the home country currency up to 50% may be paid in the home country currency. SR 302.316							
14. OTHER ENTITLEMENTS, as checked below							
<input checked="" type="checkbox"/> Removal of household goods SR 302.311		<input checked="" type="checkbox"/> Medical insurance coverage (compulsory) - details on arrival					
<input checked="" type="checkbox"/> Installation Allowance: per day upon arrival It. Lire 16,380 for 15 days if unaccompanied; if accompanied by eligible dependents then 30 days for the staff member plus 50% of the established rate for each eligible dependent SR 302.309		<input checked="" type="checkbox"/> Group accident insurance } available on voluntary basis details on arrival					
<input checked="" type="checkbox"/> National income tax - if paid is reimbursed by FAO SR 302.314		<input checked="" type="checkbox"/> Group life insurance					
<input checked="" type="checkbox"/> Education grant SR 302.906		<input checked="" type="checkbox"/> Annual leave: accrual per month 2½ working days United Nations Joint Staff Pension Fund: a deduction of 7% of pensionable remuneration (i.e. gross salary) will be made from net salary; the Organization's contribution is equal to 14%. SR 302.310 SR 302.61					
<input checked="" type="checkbox"/> Repatriation grant SR 302.7		* The Organization arranges travel and pays the cost of the transportation of the staff member and primary dependents between residence and duty station, plus a per diem allowance. SR 302.74					
TRAVEL: SR 302.7							
<input checked="" type="checkbox"/> Appointment travel*							
<input checked="" type="checkbox"/> Education grant travel							
<input checked="" type="checkbox"/> Home leave travel							
<input checked="" type="checkbox"/> Family visit travel							
<input checked="" type="checkbox"/> Repatriation travel*							
(On separation after one year of service or more)							
15. MEDICAL CLEARANCE * Appointment will be subject to the satisfactory passing of a prescribed medical examination. Please have the enclosed medical forms completed by a qualified physician (preferably one connected with the UN, or a university hospital), or by one of the following medical practitioners: * Medical examination already undergone.							
and immediately return them, together with the chest X-ray, sealed in the pre-addressed envelope enclosed. SR 302.413							
16. GOVERNMENT RELEASE							
<input checked="" type="checkbox"/> Applicable <input type="checkbox"/> Not applicable		<input checked="" type="checkbox"/> Received <input type="checkbox"/> Not yet received					
17. CONFIRMATION OF OFFER OF APPOINTMENT This offer of appointment will be confirmed only after satisfactory medical clearance, government release (if applicable), and other internal clearances. In your interest, you should not resign your present employment nor take any other action which may result in financial loss or personal inconvenience until you have received from us the confirmation of this offer of appointment.							

Continued overleaf

AFP 92/E 1271 65432 - C4087-c

UNACCOMPANIED EXCESS BAGGAGE ALLOWANCE (inclusive of packing and crating)

for air travellers,	if not entitled to removal of household goods:	if entitled to removal of household goods:
by surface only:		
Staff member only:	600 kg. (1,320 lbs) or 132 cu.ft. (3.74 cu.m.)	300 kg (660 lbs) or 66 cu.ft. (1.87 cu.m.)
Dependent spouse:	400 kg. (880 lbs) or 88 cu.ft. (2.49 cu.m.)	150 kg (330 lbs) or 33 cu.ft. (.93 cu.m.)
Each dependent child:	200 kg. (440 lbs) or 44 cu.ft. (1.25 cu.m.)	100 kg (220 lbs) or 22 cu.ft. (.62 cu.m.)
Overall Maximum:	1,600 Kg. (3,520 lbs) or 352 cu.ft. (9.96 cu.m.)	900 kg (1,980 lbs) or 198 cu.ft. (5.61 cu.m.)
OR		
by air cargo:	50% of the baggage entitlements as provided above	1/3 of the baggage entitlements as provided above
Overall Maximum:	800 kg. (1,760 lbs) or 176 cu.ft. (4.98 cu.m.)	300 kg (660 lbs) or 66 cu.ft. (1.87 cu.m.)

In addition the following allowances for accompanied excess baggage may be claimed:

- 10 kg. (22 lbs) for infants up to 2 years not receiving free baggage allowance from the carrier;
- if travel is by economy or tourist class, the difference between the Company's economy tourist and first-class free baggage allowance.

SR 302.753

BAGGAGE INSURANCE, per traveller:

Accompanied US\$1,000 - Unaccompanied US\$500 on request (application form enclosed)

NOTICE PERIOD ON TERMINATION

Appointment may be terminated by the appointee or by the Organization upon written notice of 30 days.

SR 302.903

A staff member is required to serve wherever assigned by the Director-General. Transfer to another post or duty station is determined by the needs of the Organization; however, personal needs of the individual are taken into consideration.

SR 301.012

DATE

26 April 1974

S. Kuzniekiewics
Personnel Officer

23. ACCEPTANCE

I hereby accept the terms and conditions specified above, it being understood that such terms and conditions are subject to the FAO Regulations, Staff Rules, and Administrative Manual, and to any modifications made thereto. I have received a copy of the Staff Regulations and Staff Rules.

Date

Signature

Please return one signed copy and the enclosures as applicable to the undersigned.

ENCLOSURES:

- Staff Rules and Regulations
- Medical forms and pre-addressed envelope
- Family status and travel arrangements
- Request for insurance of unaccompanied baggage
- Annex B to Manual Section 103 (importation into Italy)
- Appendix D to Manual Section 308 (Post Adjustment System)
- FAO Designation of Beneficiary forms
- Salary Allotment Instructions form
- Post Report Form
- Application for UN travel documents
- Declaration (Oath)
- Inoculation Booklet
- Standards of conduct for international Civil Servants
- Manual Section 420 (Removal of Household Goods)

UNIVERSITY OF COLORADO

BOULDER, COLORADO 80302

Department of Environmental,
Population and Organismic Biology

Taximetrics Laboratory
Hale 114
(303) 443-2211 extension 8598

6 July 1974

Mr. Robert Pichel, Chief
Crop Ecology and Genetics Resources Unit
Food and Agriculture Organization
Rome (through NA Liason Office, Washington, DC)

Dear Mr. Pichel:

Enclosed is the Letter of Intent from the University of Colorado to execute Phase 1 Development of a Genetic Resources Communication, Information and Documentation System.

Please pardon the delay in having this sent to you. The several administrators whose approval was needed were exceptionally busy in finalizing budgets for the University during the last weeks in June. They had approved of the Letter of Intent in principle early in June but it took some time to work out the details.

The project is set to begin on 1 August 1974 and to end on 31 January 1975 with provisions for either contract extensions (no cost) or contract continuation. The University will approve that I will be the project director under the supervision of Dr. Rogers. This is necessary for the University must have one of its employees as the project director.

Please note that there have been some changes in specific line items in the budget but that there is no change in the total amount of funds requested of FAO/AGPE. The amount requested is the same as the amount you have shown to be available in your memorandum to Mr. Freeman of 12 June 1974.

The attached Memorandum to Dean Johnson from me of 6 July 1974 summarizes the agreement reached with Dr. Rogers by the University of Colorado concerning cost sharing of the project. Please also see Dr. Rogers' enclosed memorandum to you of 7 July 1974.

Please direct all questions of the Letter of Intent to Mr. Howard Roark, Director, Office of Contracts and Grants, Administrative Anex 380, University of Colorado, Boulder, Colorado 80302. Please be sure to copy all letters to me as well.

We have some questions for you:

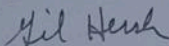
1. We assume that Dr. Rogers' travel costs will be met by FAO/AGPE funds that are from sources other than the contract funds;
2. We assume that Dr. Rogers will need permission to travel and have travel authorizations approved in Rome, although travel under the contract for me and Hanley do not need such approval once the contract

3. To this extent we request permission for Dr. Rogers to travel during the first week in August to Bogota, Colombia and Mexico, Mexico. We will also travel at that time to fully set up the project.
4. I believe you have been briefed on the difficulties faced by Jim Hanley in Turkey in his attempt to get the data from the Izmir Center. It appears that the Turks are not willing to release the data and that Dr. Kjeelqvist has neither access to the data nor authority to get it. Further, Mr. Berringer of UNDP thought it would be difficult and time consuming to arrange to have the data released.

In view of the relative importance of this data in our project (as decided by Dr. Albani) and due to the accords you reached with the Turkish government, could you lend your support in getting this data to us?

Again, we wish to thank you for your assistance and your hospitality. We hope that the enclosed Letter of Intent and other papers meet your needs.

Sincerely,



Gilbert N. Hersh,
Research Associate
Taximetrics Laboratory

copy: Dr. David J. Rogers ✓
Mr. E. J. Freeman, AGPX
Dr. R. Curtis Johnson, Dean, International Education

encl (2)
air pouch rush

UNIVERSITY OF COLORADO

BOULDER, COLORADO 80302

Department of Environmental,
Population and Organismic Biology

Taximetrics Laboratory
Hale 114
extension 8598

6 July 1974

To: Dr. R. Curtis Johnson, Dean
Office of International Education

From: Gilbert N. Hersh, *G. Hersh*
Research Associate

RE: Summary of Agreement with Dr. David J. Rogers and the University of Colorado

Please refer to the following Memoranda:

to: Dr. Lawson Crowe, 6 June 1974
Dr. J. Corbridge, 24 June 1974
Dr. T Volsky, 25 June 1974

1. The following University Personnel have been contacted concerning this agreement and agree in principle and detail:

Dr. Hobart Smith, Chairman, EPO Biology Department
Dr. W. Briggs, Dean, College of Arts and Science
Dr. R. Curtis Johnson, Dean, International Education
Dr. James Corbridge, Vice Chancellor Academic Affairs
Dr. T. Volsky, Vice Chancellor for the Faculty
Dr. M. Lipitz, Vice Chancellor for RESEARCH
Mr. Howard Roark, Director office of Contracts and Grants

2. It is agreed that:

- a. Dr. David J. Rogers will be resident at the University of Colorado from 1 July 1974 through 31 January 1975 as a representative of the United Nations Food and Agriculture Organization. In this capacity he will be paid by the UN/FAO.
- b. Dr. Roger's principal responsibility will be to supervise and assist in executing the Genetic Resource Communication Information and Documentation Project, Phase 1. This project will be executed through a contract to the University of Colorado which has been prepared in the Office of Contracts and Grants.
- c. Dr. Rogers will be available to the EPO Biology Department to consult with his colleagues on departmental matters as well.
- d. Although this project is of scientific importance internationally, The University of Colorado cannot support such research and development from State of Colorado funds; however, there are certain aspects of the project that are of mutual interest to the University and to UN/FAO.

and certain needs of the EPO Biology Department. In this case Dr. Rogers will assist in the preparation and presentation of course material.

- f. The University of Colorado will meet certain of the salary costs for Dr. Rogers on the basis that he will perform for both UN/FAO and the University of Colorado in these areas of mutual interest understanding that this will not interfere with his principal UN/FAO responsibility.
 - g. It is not possible for the University to transfer State of Colorado funds to an International Organization at this time; therefore, it will be administratively necessary to meet a portion of Dr. Rogers' salary expense on an overlaid basis paid directly to him by the University. These charges will be made against the EPO Biology's 100 account as currently budgeted and will be for not more than 1/2 of the fall semester's salary budget for Dr. Rogers.
 - h. Dr. Rogers will make whatever arrangements that may be necessary with UN/FAO concerning these payments.
3. These agreements will come into force with the acceptance of the Letter of Intent by UN/FAO as prepared by the University of Colorado through the Office of Contracts and Grants.

copies:

Dr. Smith
Dr. Briggs
Dr. Corbridge
Dr. Volsky
Dr. Lipitz
Mr. Roark
Dr. Rogers ✓
Mr. Pichel, FAO
Mr. Freeman, FAO

ORGANISATION DES NATIONS UNIES POUR
L'ALIMENTATION ET L'AGRICULTURE



ORGANIZACION DE LAS NACIONES UNIDAS
PARA LA AGRICULTURA Y LA ALIMENTACION

FOOD AND AGRICULTURE ORGANIZATION
OF THE UNITED NATIONS

Via delle Terme di Caracalla, 00100-ROME

Cables: FOODAGRI ROME

Telex: 61181 FOODAGRI

Telephone: 5797

Ref. GRCIDS/2

7 July 1974

University of Colorado Office
Boulder, Colorado
Hale 114

To: Mr. Robert Pichel, Chief
Crop Ecology and Genetic Resources Unit
FAO/Rome

From: Dr. David J. Rogers, Senior Officer
GRCIDS
AGPE

RE: Remuneration by the University of Colorado
Fall, 1974

Please refer to the Memorandum to Dean Johnson from Gilbert Hersh of 6 July 1974 summarizing my arrangements with the University of Colorado, especially 2.g.

The University of Colorado must pay me directly as stated. In turn I will transfer these funds directly to UN/FAO/AGPE.

To make this transfer as easy as possible I will send a check for \$6,200. to you by 15 Spetember 1974. This represents the share made available by the University of Colorado.

Please address any questions concerning this to me or Mr. Hersh.

copy: Mr. Hersh

DAR

UNIVERSITY OF COLORADO

BOULDER, COLORADO 80302

*OK
Richard*

Department of Environmental,
Population and Organismic Biology

Taximetrics Laboratory

April 19, 1974

To: Dr. Hobart Smith, Chairman

From: Gil Hersh *Gil Hersh*

RE: Summary of a telephone conversation with Dr. David J. Rogers today.

Dr. Rogers send his greetings to you and the members of the department.
He wishes that you note the following:

1. He will return to Boulder this summer and will not return to FAO on a permanent basis.
2. He wishes, if possible, to be reinstated on the active faculty list beginning in the fall semester, 1974 with full salary and responsibilities.
3. That he approves the draft proposal for the quantitative seminar-computer seminar that we will submit to you Monday of next week.

Thank you for your time and attention.

Copy: Dr. David J. Rogers

UNIVERSITY OF COLORADO

BOULDER, COLORADO 80302

Department of Environmental,
Population and Organismic Biology

July 26, 1974

Mr. Michel Frere
Officer in Charge
Crop Ecology and Genetics Resources Unit
Plant Production and Protection Division
FAO
Rome, Italy
Via Pouch

Dear Mr. Frere:

Thank you for your letter of July 19, 1974 to Mr. Roark. Your recommendations were indeed helpful.

Enclosed is the modified letter of intent.

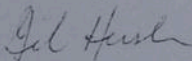
Please note that the University has agreed to follow your suggestion and absorb keypunching costs in lieu of remuneration of David J. Rogers. This has the effect of reducing the contract by \$5,250.

The other conditions you've specified are acceptable and a redrafted memorandum, which is not part of this contract but a summary for the International Dean's files, follows.

Please act on this letter of intent so we may continue to work after 31 July.

Your concluding paragraph is correct, Mr. Freeman was clear on the FAO administrative problems concerning Dr. Rogers. I expect that it was also clear that the University of Colorado has its own administrative problems which are not the same as those of FAO. It has been our intention to mesh these administrative functions. It is hoped that this solution is satisfactory.

Sincerely,



Gilbert N. Hersh
Research Associate and
Project Director

copy: Mr. Howard Roark
Dr. R. Curtis Johnson
Dr. William Briggs
Dr. David J. Rogers
ENCL

UNIVERSITY OF COLORADO
BOULDER, COLORADO 80302

GRADUATE SCHOOL
OFFICE OF CONTRACTS AND GRANTS
130 ADMINISTRATIVE ANNEX

July 26, 1974

TELEPHONE (303) 443-2211
EXTENSION 6221

Mr. Michel Frere
Officer in Charge
Crop Ecology and Genetics Resources Unit
Plant Production and Protection Division
FAO
Rome, Italy
Via Pouch

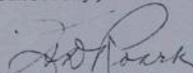
Dear Mr. Frere:

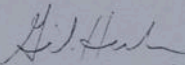
The modified letter of intent for the Genetic Resources, Communication, Information and Documentation System: project phase I is attached.

The project will be for six (6) months and will be directed by Gilbert Hersh under the FAO supervision of David Rogers.

The project will commence 1 August 1974 and end 31 January 1975.

Sincerely,


Howard D. Roark
Director


Gilbert N. Hersh
Research Associate and
Project Director

Part I

BACKGROUND

A critical problem facing the world is how to provide adequate food for its people. Every nation and many international organizations are addressing this complex problem. In major part, solutions must be found in increased improvement, production, protection, and effective distribution of food crops. In turn, these solutions must be found and implemented by the relentless efforts of thousands of scientists and technicians around the world working with the available supply of plant genetic resources.

Some good work has been done in exploring and conserving the world's plant genetic resources. But there have been considerable problems in evaluating what does exist, to plan specifically for new exploration as needed. Possibly of greater importance is solving the problems of utilization of these resources by workers involved in crop improvement, protection, and introduction. These problems are caused by a communication and information system that has been developed informally and even haphazardly over the years. Information on what is available must be matched to demands of what is needed.

FAO has been charged with addressing this problem of making a system analysis on which a plan for coordination and development of an improved communication, information, and documentation system will be based.

FAO has attempted to locate those experts who may achieve this. We have located Dr. David Rogers and members of his staff at the Taximetrics Laboratory at the University of Colorado, including Mr. Gilbert Hersh and Mr. James Hanley. FAO has determined that the research and development work done by these members of the Taximetrics Laboratory is the most advanced work in the field and holds promise of solving a series of complex problems heretofore not well addressed.

With the support of the National Science Foundation, Office of Science Information Services, the Taximetrics Laboratory designed and developed TAXIR, a general computer-based information system compiler. The Taximetrics Laboratory, without research sponsorship, has continued to improve TAXIR and in the last year has been aided by the University of Colorado Computing Center.

Recently, with assistance from the U. S. National Science Foundation, Panel of Systematic Biology, and unsponsored research, Dr. Rogers and Mr. Hersh have started a series of pilot projects using the TAXIR system both to collect information for a systems analysis of genetic resources activities and to demonstrate the effectiveness of TAXIR in handling genetic resources communication, information, and documentation problems.

These pilot projects have been done on information about actual genetic resources collections from several international centers. (They include the following crops: potatoes, corn, cowpeas, and various types of beans.)

The team has also worked in conjunction with the USDA National Seed Storage Laboratory, Fort Collins, Colorado, in demonstrating the use of the system for information analysis and retrieval for the maintenance of genetic resources in permanent storage.

Work has also been done demonstrating how information may be shared on an international basis using the model of the regional/international genetic resource center at IZMIR, Turkey.

UN/FAO has taken the following course of action:

1. hired Dr. Rogers to staff as a senior officer;
2. decided upon a course of action proposed by him and his staff.

The phase of this course of action is listed in the work plan.

It is highly likely that upon the completion of this first phase, there will be continuation of this work. FAO and possibly the prestigious and independent International Board on Plant Genetic Resources will fund aspects of this work annually.

UN/FAO is also interested in this work as a prototype for use in other areas of international development that may not be related solely to plant genetic resources.

Part II

During Project Phase I, the Taximetrics Laboratory will carry out the following work:

A. Zea mays Pilot

1. Expand the pilot on Zea mays corn, from four participating institutions to not less than six participating institutions, to include CIMMYT, Mexico; INIA, Mexico; ICA, Colombia; EMBRAPA, Brazil; PCIM, Peru; Eucarpia, Southern Europe; and USDA, Fort Collins.
2. The data sample size will be extended from the initial accessions to the full collections from each (or at least 5,000 accessions). The work will be done in conjunction with these organizations and will be coordinated by FAO.
3. Make a complete personnel activities analysis of those personnel working globally in Zea mays and define the systems interrelations among these personnel.

B. Regional Centers Pilot

1. Process and analyze the data from the regional center at IZMIR as provided and demonstrate the effectiveness of TAXIR as a communications base for international multi-crop participation conditional on the availability of data from the IZMIR center.
2. Make a personnel function and activity analysis of all those workers associated with the IZMIR center and those centers which are coordinated by the IZMIR center conditional on the availability of data and cooperation from the IZMIR center.
3. As a part of this demonstration work on Zea and an analysis of Genetic Resources Base collection functions will be made using the USDA National Seed Storage Laboratory at Fort Collins, Colorado as an extended example. Also exploration of areas of GRIDS cooperation will be made with the USDA for example analysis within the USDA GR network.

C. Continue the improvement of the TAXIR system to include:

1. a multi-purpose report generator;
2. certain basic statistical moduels useful for genetic resource work;
3. modularize the TAXIR system and recode in ANSI standard FORTRAN;
4. transport TAXIR and install it for demonstration purposes on computing equipment at INIA, Mexico and ICA, Colombia (If the equipment is sufficient in size and the above institutions accept.) assuming equipment availability and cooperation from recipient organization.
5. Cooperation with other current TAXIR users in this development.

D. Prepare a demonstration for the January meeting of the International Board on Plant Genetic Resources to include:

1. a descriptive model of current global genetic resources activity;
2. demonstration of the pilots above and information generated from these pilots;
3. using this descriptive model, present an intervention plan for improving the communication, information, and documentation system currently in use in global genetic resources work;
4. prepare and present a time phased program for the execution of this intervention plan including appropriate cost estimates.

- E. Develop and test training and course material that will be needed in genetic resources work. Such to include use of the EXIR system (including research modules), the integration of information concepts in plant ecological research and planning, quantitative taxonomic methods, etc.

Proposed Budget (Fixed Cost Total)

Payable to the University of Colorado, Boulder, Colorado
Payable by UN/FAO, Rome, Italy
Payable in US Dollars

A. Salaries and Wages

University Personnel:

G. N. Hersh, Research Associate,
Taximetrics Laboratory, Project
Director, \$1,800/month, 6 months
to be available to UN/FAO on a
reimbursable loan basis. \$ 10,800

B. Support Services

1. Manuscript preparation, editing,
artwork, slide and photo reproduction 4,100
2. Key punching services ¹ -0-
3. Programming costs:
J. R. Hanley, Chief Consultant,
Programming, \$1,800/month, 6 months
to be available to UN/FAO on a
reimbursable loan basis. 10,800
4. Other programming costs 10,400
5. Computing Center services 6,000
6. Other costs: telephones, postage,
office supplies, copying, small
calculator, etc. 1,500
7. Travel costs ² to be directly controlled
by UN/FAO as described in the FAO/AGPE
letter of July 19, 1974. Ref UN 32/6 -0-

Total Support Services \$ 37,800

C. Total Direct Costs 43,600

D. Indirect Costs

5% of Total Direct Costs 2,180

E. Total Costs \$ 45,780

Budget Footnotes

1. Key punch services valued at \$5,000 will be provided by the University of Colorado, College of Arts and Sciences in lieu of Renumeration to Dr. David J. Rogers.
2. The condition of UN/FAO/ACPE control of Travel Funds for Hersh and Hanley is accepted on the conditions that:
 - a) the amount needed to execute the work of this project will be available as requested; and, the project director will be allowed sufficient flexibility in the request for travel funds to take advantage of opportunities that will improve or accelerate the project.
 - b) travel advances will be made available for approved travel.