



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

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

#### *Usage guidelines*

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

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

The Hunt Institute Archives contains hundreds of thousands of pages of historical content, writing and images, created by thousands of individuals connected to the botanical sciences.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of time and social context in which these materials were created, some of the collections contain material that reflect outdated, biased, offensive and possibly violent views, opinions and actions.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 Archival records are historical documents, and the Hunt Institute keeps such records unaltered to maintain their integrity and to foster accountability for the actions and views of the collections'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

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

#### *About the Institute*

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

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

Dave Rogers

# Horticulture Aim--More Study, Take More Stands On Dilemmas

Horticulturists need to participate more in studying and taking stands on human dilemmas, Dr. William Alva Frazier, president of the American Society for Horticultural Science, told horticulturists Wednesday morning at the opening session of the 66th annual ASHS meeting at Pullman.

"WE PARTICIPATE eagerly in adding to knowledge, but how often do we ask the question of whether there is, indeed, much relation between accumulation of knowledge and wisdom?" Frazier asked. "We do not even stop to think that busy pursuit of the sciences may actually be subtracting from an understanding of man and his needs."

Horticulture's rapid advancement toward mechanization of most phases of production and handling of commercial horticultural crop replaces former labor needs, thereby creating more leisure time, which encourages idleness. And idleness leads to behavioral problems, he said.

IT IS the duty of horticulture to attempt to correct the problems it creates when it solves problems, he said at the three-day meeting's opening session.

ASHS also has a responsibility to participate in politics to provide leadership in problems involving plant life, environment, and research funding, said Frazier.

It is shameful, he said, that scientists now attacking problems in agriculture have only a fraction of funds with which to work when compared to many scientists backed by new granting agencies.

THE COMMON argument that agricultural research has done so well that it can afford to relax is folly, Frazier said. "Major research in agriculture commonly has a time lag of 20 to 50 years. If we expect the next generation to escape hunger, we must pave the way by research today."

It is vital to the interests of the U.S. to bolster, without delay, agricultural science by funds assigned to agriculture, "not to some diffuse agency which knows little of agricul-

ture's problems," Frazier said.

"THE CONGRESS should insist upon broad consultation between all of the states and the U.S. Department of Agriculture when major agricultural appropriations are made," he said.

Speaking of horticulture education, Frazier favored a better job of blending the two areas horticulturists have stressed, physiology and culture, and genetics and plant breeding.

He also favored weaving more humanism and philosophy into science and technology courses in horticulture. "We have forgotten the philosophy of Doctors of Philosophy degrees. It is a tragedy of our times -- and we are by no means the worst offenders among today's sciences."

Horticulturists have another problem, that of retrieving knowledge already gathered, Frazier said. However, with computers, horticultural information scholars today could be said to plantmen throughout the world, he said.

THE COSTS of a world horticulture information retrieval system appear beyond the means of the ASHS, he said, but asked if ASHS could not sell the idea to enough professional and political organizations.

ASHS needs to establish a horticultural foundation so that those who wish to contribute to the society on a memorial, interperpetuity basis may do so, with only the earnings from such funds available for Society usage.

In addition, he said, ASHS must broaden its base of membership by welcoming large numbers of people from industry and from the ranks of amateurs. He does not believe exclusiveness can be well-defended; does believe active participation by these groups is the best insurance of a strong organization serving American horticulture.

"WE MUST BE prepared to serve vast corporate farming of the future and the housewife with the geranium in her kitchen window. We might call it suburban and urban horticultural ecology."

was using units measured to divert sewage away," he said. Lake Washington is now clearing up, Funk said.

Funk said the WSU research, which has included weekly checks at Rock and Williams lakes, "has shown a prodigious growth of algae caused indirectly either by heavy use of rich fertilizers in adjacent farm land, sewage seepage from nearby lake residences, or from nutrients added by chum fishing and motor boat fuels."

HE DEFINED algae as "mostly single celled plants with tremendous capabilities for reproduction." However, he said, some colonial forms exist and others grow to giant sizes, Funk said that three main types of algae -- diatoms, green and blue-green -- had been identified in the lakes studied. He warned also that some types of algae can be toxic.

"Many western lakes are just now encountering this problem, which has plagued eastern bodies of water for many years," he said. Klamath Lake in Oregon also is suffering from a severe algae problem, Funk said.

Funk said that due to cutbacks in federal water pollution control funds "many excellent research projects are not being sponsored. Our investigation, thus, has been limited to Rock and Williams Lakes. Many other lakes in the area, however, are likewise affected by this fast growth of pollution-caused algae."

He said he had been assisted in his research by Dr. Srinidhar Bhargat, assistant professor of civil engineering, and Jerry Koelling.

(1) Slicing Machine (meat)

(1) Blower

(1) 1 1/2 HP Compressor

(1) Skuffer

(1) Table

(1) Meat Block

(1) Gas Stove

(1) Stainless Steel pan

(2) Counter plastic top

(3) Plastic tubes, meat row Blor

(1) Exact weight scale

levied on the hereinabove described cause to satisfy a judgment of foreclosure of real and chattel mortgages, said judgment amounting to \$30,073.96 together with interest, attorney's fees and costs, in favor of plaintiff.

DATED this 25th day of July, 1969.

C.A. Humphreys  
Sheriff of Whitman County  
Washington

IRWIN, FRIEL & MYKLEBUST  
236 First National Bank Bldg.  
Pullman, Washington 99163  
LOGAN 4-1179

Pub: July 31, Aug. 7, 14, 18,  
1969 (1661)

FORCE ACCOUNT  
PROJECT ANNOUNCEMENT  
It is the intention of Washington State University to make certain alterations and additions in Albrook Hydraulic Laboratory at an estimated cost of \$15,898.11.

Bruce Rutherford,  
Director  
Department of  
Physical Plant  
Pub: Aug. 21, 1969 (1679)

NO. 11842  
Notice of Hearing Final Report and Petition for Distribution

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON IN AND FOR THE COUNTY OF WHITMAN  
In the Matter of the Estate

p.m. (PDT), September 2, bids received opened at the Council of man, Washington and place above bids submitted

(a) The lowest bid above par at der will purchase or  
(b) The lowest bid above par at der will purchase or

All bids shall be accompanied by a cash deposit of (5 per cent) of the bid, either certified check, will be returned not accepted, or the purchase price. If the successful bidder fails to furnish bonds of Local District No. 14 neglect to complete chase of said bond (5) days following of the City, the good faith check felted to the CH Washington. Ma checks payable to Pullman, Washington

The legal app of Bureham & B torneys, of Spokane, will be furnished the successful bidder, ready for execution furnished the su der.

The City of Pull the right to reject bids submitted.

CITY OF P  
WAS  
By: OSCAR E.

Attest: JOHN V

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICEREGIONAL PLANT INTRODUCTION STATION  
WASHINGTON STATE UNIVERSITY  
JOHNSON HALL 59  
PULLMAN, WASHINGTON 99165

June 30, 1969

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

Dear Dave:

Since Sam is out of town and won't be back until about the 21st of July I am taking the liberty of answering your request of June 25 for accommodations during your stay here in August. It so happens the American Society for Horticultural Science is holding their annual national meeting in Pullman at the same week as the Phytopath meetings are in Spokane. There is no conflict in the formal meeting of the two groups since the Phytopath meetings are the first part of the week and Hort. Science meetings the last part of the week. However, the Hort. people have University housing reserved for the whole week since the first part of the week is given over to field trips and other preliminaries. The enclosed brochure explains pretty well the housing situation in Pullman at that time. You may note the camping facilities named at the end of the brochure in case you want to take that approach to the problem. Dr. Kalin, who is in charge of housing arrangements for the Hort. Science group, said that registration of only one in the party should be sufficient for making you all eligible for space in University housing.

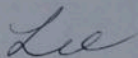
I might say here that we are planning an informal presentation for the Hort Science people of the same demonstration that the Phytopath people will have at their meetings. We are not sure whether we will have a unit available for Todd Hall where the meetings will be on campus or whether it will be restricted to a demonstration unit here in Johnson Hall. Since getting your letter I have been making some last minute inquiries and I find that the date for the demonstration has not actually been set yet. The place of demonstration on campus has not been scheduled either due to lack of information this far ahead as to availability of proper test sites away from Johnson Hall. Conceivably this demonstration could take place either on Thursday or Friday and since you will probably be here on Thursday I am hopeful that it can be arranged for that date so

June 30, 1969

if you desired you could participate. As you probably know Bill Walden will not be around at all during that week in August so we will have to rely on Ron Dutton for computer arrangements. As you know, Bill is quite adamant, and rightly so, that the computer hookup and arrangements enable the machinery to operate perfectly. At this date there seems to be some doubt as to whether a proper terminal can be installed in either the Union Building or Todd Hall on campus for maximum availability by Hort. Science.

This has turned out to be quite a wandering epistle in a simple request for accommodations for sleeping. However, I did not want you to arrive here unaware of perhaps some other opportunities for a TAXIR demonstration. I will try to keep you abreast of developments as they occur here on WSU campus. If you have any thoughts in this regard, I would appreciate very much receiving them.

Sincerely,



Leland W. Hudson  
Assistant Horticulturist

Enc.

**ADVANCE REGISTRATION,  
HOUSING AND TOUR  
INFORMATION**

**66th ANNUAL MEETING**

**AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE**

**WASHINGTON STATE UNIVERSITY, PULLMAN**

**Tours: August 18-19 and 24, 1969**

**Program: August 20-22, 1969**

Spencer Demo

25 June 1969

Dr. S. M. Dietz  
USDA - ARS - Plant Introduction Sta.  
Johnson Hall 59  
Washington State University  
Pullman, Wash. 99163

Dear Sam:

A small matter in connection with the demonstration -  
We need four beds, cheap, for about two days before the  
demonstration and perhaps one day after for a total of four  
days.

Since we are operating on practically no money, I hope  
you can find some arrangement so we get by with the least  
amount. Clearly, fancy hotel or motel rooms are not indica-  
ted. If you have trouble with arrangements on this score,  
just tell us so.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

April 2, 1969

Dr. Shirl O. Graham  
Department of Plant Pathology  
Washington State University  
Pullman, Washington 99163

Dear Dr. Graham:

At the suggestion of Dr. George Hepting, I am writing to find out the possibilities of putting on a demonstration of our TAXIR information retrieval system at the A.P.S. meeting in Spokane, this coming August.

Several problems are outstanding, and I hope that you can help in ironing them out. But first, I'll give you a little background which may be helpful in your understanding. TAXIR, mentioned above, is an information retrieval system developed by a team of biologists, mathematicians, and programmers here in the Taximetrics Lab. The system is receptive of a wide range of biological information in the raw data form and is not a retrieval system for literature. We have recently been collaborating with your Computing Center, where Dr. William Walden has been in charge of converting our programs to run on the IBM 360 there. The purpose of this collaboration has been to provide Dr. Sam Dietsz with a system he could use for the data gathered in the Plant Introduction Section of USDA under Dr. Dietsz' direction. Dr. Dietsz and Dr. Cal Konzak have both become fairly well acquainted with TAXIR and can probably tell you something about it.

With this short introduction, let me say that we would like to demonstrate the powers and utility of our system to the plant pathologists. I have met with Dr. Ellis, Dr. Wellman and Dr. Lucas at North Carolina State recently, and they encouraged me to participate in the information retrieval discussions of A.P.S. and to show what our system would do.

We would need to work very closely with the Computing Center there in Pullman in order to put on a "live" demonstration and need close collaboration with the computer people to make the demonstration go.

The first question to answer is whether the Computing Center there is willing to go after this type of work, and to that end, I am

Dr. Shirl O. Graham  
April 2, 1969  
Page 2

going to contact both Dr. Walden and Dr. Dietz to determine their willingness and interest. If they are agreeable, then we will have to determine whether they expect to be ready by the time of the meetings. Then, and perhaps you can participate in this decision, we need to find out whether the computing center can set up a remote terminal at the meeting site in Spokane. If they are, then we will have to know what the remote terminal facilities are and how they operate, so that we can take full advantage of them with the least amount of difficulty.

If the computing center there cannot provide such remote terminal facilities, then do you think it possible to put on the demonstration in Pullman, and ask that those members of A.P.S. interested in seeing the demonstration get to Pullman for it? This is perhaps the first question to be answered, but it is hard to tell which is first.

One outstanding problem is costs--we had not anticipated putting on such a demonstration and do not, therefore, have anything in our budget for costs and travel. Can you suggest any possible support? I do not expect that there would be large costs, but certainly someone has to pay for computing time, personnel costs for operators, supervisors, etc. We will need about four round-trip tickets from here to Pullman, plus per diem while there.

I hope that I have not over-burdened you with problems and hope that you will be able to give us some sort of answer. Since I will be in Europe during most of this month, there is no immediate rush to answer the letter, and I suspect you will need some time to get the answers anyway. Looking forward to your reply.

Sincerely,

David J. Rogers  
Professor of Biology

cc: Dr. Hepting, Asheville, N. C.  
Dr. Walden, W.S.U.

srh  
Air Mail

JUN 10 1969

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE

REGIONAL PLANT INTRODUCTION STATION  
WASHINGTON STATE UNIVERSITY  
JOHNSON HALL 59  
PULLMAN, WASHINGTON 99163

June 6, 1969

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

Dear Dave:

Thanks for your phone call of June 5. I checked with Dr. Graham and he says that it will be extremely difficult to obtain a room close to where the teletype can be set up. I then requested that he try to reserve two booths for our TAXIR demonstration. Incidentally, each booth is 80 sq. feet (8 x 10). I think you could use one for flow charts and other explanations of the TAXIR system and the other booth could be used for the teletype demonstration. Dr. Graham will let me know when plans are finalized.

Sincerely yours,



S. M. Dietz  
Coordinator

*See you Aug. 20.*

April 1, 1969

Dr. George Hepting  
Forest Service, U. S. Department of Agriculture  
Southeastern Forest Experiment Station  
P. O. Box 2570  
Asheville, North Carolina 28802

Dear Dr. Hepting:

I will be pleased to join with you at the A.P.S. Literature Retrieval committee, provided we can find some way to meet the costs of transportation, etc. I do not now have in my budget any funds for this trip, but hope that you can suggest some means by which these can be achieved.

With respect to the possibility of a demonstration of our TAXIS system, I want to check out the possibilities of a "live" demonstration through the facilities of the Computing Center at Washington State University, where we have already been doing some collaborative work to support the USDA's Plant Introduction Station, under the direction of Dr. Sam Dietz. What I have to do is to find out if the computing center there is willing to join with us in putting on the demonstration and, if so, what costs will be involved.

In connection with this demonstration, it may be difficult (if not impossible) to set up a remote terminal in Spokane, where the meetings are to be held. If we cannot get a remote terminal setup in Spokane, do you think it would be possible to put on the demonstration in Pullman, at the WSU Computing Center? What would be the problems, if any, from the standpoint of A.P.S.? I must check with Dr. William Walden, Director of WSU Computing Center, to discover his willingness to cooperate, and what arrangements for programs, personnel, etc. will be required.

With respect to the retrieval problem itself, I would like to tell you that we have not yet addressed ourselves to the literature problem, but intend to work on it. Our system so far developed is most capable of retrieving primary biological data, but we have designed the system in packages, or modules, with the idea that expansion to cover other interesting facets of the "total" problem of information retrieval be made possible. I do believe, after some conversations with Fred Wellman, that there is a need for our type of retrieval package, as

Dr. George Hepting  
April 1, 1969  
Page 2

well as for the literature capacity. Our philosophy has been to work on areas different from the ones that others, like yourself, have been working very hard in. We do have some ideas about a literature retrieval system, however, which are now "on the back burner."

At your suggestion, I am writing to Dr. Graham, and am enclosing a copy of my letter to him, so that you will be aware of what is going on.

Thanks for your letter. I hope that we can work out something.

Sincerely,

David J. Rogers  
Professor of Biology

Enclosure 1

cc: Dr. Graham  
Dr. Walden

srh

April 2, 1969

Dr. William Walden, Director  
Computing Center  
Washington State University  
Pullman, Washington 99163

Dear Bill:

We have been invited by the Committee on Information Retrieval of the American Phytopathological Society to demonstrate TAXIR at their meeting this coming August in Spokane. Clearly, we cannot put on such a demonstration without your full cooperation, and that is what I'm writing to find out about now. The questions are as follows:

1. Do you think TAXIR will be ready some time in advance of August 20?
2. Can you hook up a remote terminal I/O in Spokane, at the A.P.S. meeting place? How much?
3. Are you willing to put on such a demonstration?
4. How much money do you need? Are funds forthcoming in your own budget?
5. Have you sufficient personnel to put the system to work in Spokane?
6. If it were decided to ask A.P.S. members to come to Pullman for a demonstration, could we do it in shop? Do you have CRT hookup?
7. Is Sam Dietz willing to provide some input? Is he willing to do anything for such a demonstration?

I have written to Dr. Shirl Graham in your Department of Plant Pathology, Chairman in charge of local arrangements for A.P.S., and told him that I was writing to you about these problems. You should be hearing from him soon. It will take some real hard work to put over the demonstration, as you're probably well aware. It was no trivial task when we put one on last October, and we had been working on it for some weeks before it happened.

Dr. William Walden  
April 2, 1969  
Page 2

I'll be out of town until the 23rd, so you've some time to mull this over and come to some decision. I'll be interested to hear from you.

Sincerely,

David J. Rogers  
Professor of Biology

cc: Dr. Graham  
Dr. Hepting

srh

Air Mail