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5th Floor, Hunt Library
Carnegie Mellon University
4909 Frew Street
Pittsburgh, PA 15213-3890
Telephone: 412-268-2434
Email: huntinst@andrew.cmu.edu
Web site: www.huntbotanical.org

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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.

File in folder with the title

MISSOURI BOTANICAL GARDEN

FOURTEENTH ANNUAL SYMPOSIUM ON SYSTEMATICS
(Supported by a grant from the National Science Foundation)

SYSTEMATICS OF ANIMALS AND PLANTS ASSOCIATED WITH MAN

OCTOBER 13 - 14, 1967

FRIDAY: 7 - 10 P.M. Smoker and Registration - MUSEUM BUILDING
2221 Tower Grove Avenue

SATURDAY: 9:30 A.M. Symposium - Museum Building

CHAIRMAN: Professor Bryan Patterson, Harvard University

SPEAKERS: Dr. Charles A. Reed, University of Illinois at Chicago Circle, Chicago
"Environment and hunting-habits of the Late Paleolithic,
Upper Pleistocene people of northern Iraq".

Dr. Hugh C. Cutler, Missouri Botanical Garden and Washington University
"Plant remains from Archaeological Sites".

Dr. Peter H. Raven, Stanford University
"The Botanical Ethnography of Highland Chiapas".

12:00 NOON BUFFET LUNCH - In the new greenhouse, south of Floral Display House
Registration Tag MUST be presented.

1:30 P.M. SYMPOSIUM

SPEAKERS: Dr. Richard W. Pohl, Iowa State University
"Interactions between Man and Grasses".

Dr. Barbara Lawrence, Museum of Comparative Zoology, Harvard University
"Early Domestic Dogs".

Dr. David J. Rogers, University of Colorado
"A Computer-aided Morphological Classification of
Cassava (*Manihot esculenta* Crantz)".

REMARKS: By the Chairman

6:00 P.M. DINNER - WOHL CENTER - WASHINGTON UNIVERSITY
6515 Wydown Boulevard (see attached diagram)

8:00 P.M. Evening Talk - REBSTOCK AUDITORIUM - WASHINGTON UNIVERSITY
Dr. Mildred E. Mathias, University of California, Los Angeles
"The Flower Children".

ABSTRACTS

14th ANNUAL SYMPOSIUM ON SYSTEMATICS

MISSOURI BOTANICAL GARDEN - OCTOBER 13-14, 1967

Charles A. Reed
University of Illinois

ENVIRONMENT AND HUNTING-HABITS OF THE LATE PALEOLITHIC,
UPPER PLEISTOCENE PEOPLE OF NORTHERN IRAQ

The late Paleolithic, upper Pleistocene peoples of the foothills of the Zagros Mts. of northern Iraq have been known for almost four decades by their distinctive Zarzian assemblage of microlithic stone tools, found in several small caves along the south-western flanks of the mountains. Recent geological and palynological studies have clarified the general environmental sequences for the area, and the faunal studies at one of these caves (Palegawra) illuminates such local factors as the species and ages of the animals hunted, method of butchering, utilization of animal parts, and something of the pattern of life of the people.

The general environment of 12,000 years ago, following a period of continental cold (Würm) and local montane glaciation, was one of a treeless *Artemesia* steppe, with gradual warming and infingering of streamside thickets of juniper, oak, pistachio, willow, almond, and probably other trees up the river bottoms. Present evidence indicates that the people were nomadic hunters, depending primarily on adult onager (*Equus hemionus*), red deer (*Cervus elaphus*), sheep (*Ovis orientalis*), wild goat (*Capra orientalis*), gazelle (*Gazella subgutturosa*), and fox (*Vulpes vulpes*) for food. The scarcity or absence of large carnivores (probably avoided by the people), the scarcity of wild cattle and pig, and the absence of fallow and roe deer are noteworthy, particularly as contrasted with the expected sample of animals available for hunting in more recent times. Certain of these differences (cattle, pig, and fallow and roe deer) are tentatively explained on the basis of scarcity or absence of the animals during the period of environmental change of the upper Pleistocene.

Seemingly, selective hunting of prime, adult animals was practiced, but admittedly most of the bones were not taken to the cave. However, the large numbers of jaws and feet carried to the cave indicate some special functions for these parts, functions which do not emerge from study of the faunal remains from Palegawra but may have meaning in the total context of cultural uses of bone by Paleolithic people.

No evidence of plant or animal domestication was detected, and the general period (between 12,000 and 11,000 years ago) is seemingly slightly prior to the earliest known domestication.

Hugh C. Cutler
Missouri Botanical Garden and Washington University

PLANT REMAINS FROM ARCHEOLOGICAL SITES

Plant remains from archeological sites are valuable records of evolution, ecology, climatology and economic botany. Modern excavation methods provide reliable dates for many collections. It is possible to build up a chronological record of the biological environment for a long period in many parts of the world. While most archeologists recognize the value of plant and animal materials, very few make serious efforts to save any more than the most obvious and large specimens and have them studied.

Biologists need to become aware of the value of archeological remains of plants and animals and insist upon adequate programs to recover, study, and preserve adequate amounts of these materials.

The center of origin for corn and the genus *Cucurbita* lies in Mexico and general patterns of dispersal through northern Mexico and the United States are known. Periods of greatest movement and a change in the cultivated plants coincide with periods of greatest cultural change. Much work remains to be done on the relationships of the cultivated plants and wild relatives growing in the same region.

Unless some way is found to encourage the preservation and study of archeological materials, records essential for an understanding of evolution of some plants and evidence of the flora and fauna of the past will be lost.

Peter H. Raven
Stanford University

THE BOTANICAL ETHNOGRAPHY OF HIGHLAND CHIAPAS

Since 1964, I have been engaged in a cooperative investigation of some aspects of the botanical ethnography of highland Chiapas, Mexico, most recently with Brent Berlin of the Department of Anthropology, University of California, Berkeley. These studies have been concentrated in Tzeltal-speaking areas, especially the municipio of Tenejapa, and have to date resulted in the collection of some 16,000 numbers of plants, mostly with associated ethnographic data. We have specifically addressed ourselves to the following questions:

1) What is the structure of Tzeltal plant taxonomy? In other words, how do these Mayan peoples view the structure of the living world, and what light does this shed on the way we are accustomed to view this structure?

2) What role do plants play in the life of the Tzeltal, and which plants are of critical importance?

3) How does folk taxonomy change during aculturation of a Tzeltal-speaking community? We are approaching this question through a comparative study of little-affected Tenejapa and strongly aculturated Aguacatenango. The basic philosophical importance of the way in which language affects a people's view of the world is being examined in these studies.

Richard W. Pohl
Iowa State University

INTERACTIONS BETWEEN MAN AND GRASSES

Grasses constitute man's major food supply and that of his domestic animals. The evolution of the horse was directly dependent on the evolution of steppe-type grasslands in the Miocene. Sugar cane was responsible for the origin of primitive agriculture in New Guinea. The rise of the Assyrian and Mayan civilizations illustrates dependence on specific grass crops. New developments in cereals, such as high lysine corn, high-protein oats, hybrid wheat, and high-yielding rice may change agricultural outlook greatly.

Some grasses are weeds or commensals with man. The recent spread of *Setaria faberi* in the U.S. is an example of explosive population increase, both fostered and fought by man. *Miscanthus sacchariflorus*, a potentially dangerous weed, is being spread rapidly as an ornamental. The *Dichanthelium Panicums* have increased greatly because of provision of new disturbed habitats by man.

Bromus pumPELLIANUS, a non-aggressive native species has been grossly contaminated genetically by *B. inermis*, an aggressive Eurasian congener introduced by man. *Calamagrostis porteri*, a so-called "senescent" species, has become aggressive in disturbed habitats created by man.

Barbara Lawrence
Harvard University
Museum of Comparative Zoology

EARLY DOMESTIC DOGS

The oldest, dated specimens (C 14 ± 8,400 B.C.) of domestic dog come from North America and furnish evidence that domestication took place well before the agricultural revolution. The earliest unmistakable dogs from western Europe and the Near East are roughly contemporaneous with each other and about a thousand years more recent. At these early dates, dogs were clearly dog-like and showed considerable variation in size.

Morphological evidence points strongly to a small wolf-like animal as the ancestor of the domestic dog. Polymorphy and behavioral traits bear this out. The distribution and characters of presently known specimens of early dogs suggest that we need to consider more carefully the possibility that the ancestral form came from southeast Asia.

David J. Rogers
University of Colorado

A COMPUTER-AIDED MORPHOLOGICAL CLASSIFICATION OF CASSAVA (*MANIHOT ESCULENTA* CRANTZ)

Classification is based on vegetative characters of the species. Population samples were derived from plants growing in

the Western Hemisphere tropics, in the West Indies, Central and South America. Groups of cultivars are viewed as "constellations" within a larger universe, and the groups are designated by their major morphological traits, but not given formal taxonomic name or rank. There is no adequate reflection of the reticulate nature of the cultivar relationship given in formal subspecific nomenclature required by the International Rules of Botanical Nomenclature.

The computer programs used to aid in the classification were developed primarily for the purposes of studying the complexities of relationships amongst variations of cultivated species. In the computer, each specimen (population sample) is compared with every other specimen and pair-wise measures of similarity are produced. These similarity measures are used to place the specimens in a series of partitions (hierarchies) and to cluster each with its closest neighbors. Graphing techniques following the clustering program provide a convenient method of illustration of the interrelationships. These methods are the first known application of computers to the classification of a cultivated species in its entirety. The value of the methods to students of cultivated plants is immense.

PARTICIPANTS - 1967

FOURTEENTH ANNUAL SYMPOSIUM ON SYSTEMATICS

Missouri Botanical Garden, St. Louis, Mo.

<u>NAME</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
<u>Alabama</u>		
Cunningham, Hugh B.	Auburn University	Auburn, Alabama
<u>Arkansas</u>		
Demaree, Delzie	Arkansas State University	Hot Springs, Ark.
Kinser, Ray	State College of Arkansas	Conway, Ark.
Kirkwood, Robert	State College of Arkansas	Conway, Ark.
Moore, Jewel	State College of Arkansas	Conway, Ark.
<u>California</u>		
Raven, Peter H.	Stanford University	Stanford, Calif.
Thomas, Dr. John H.	Stanford University	Stanford, Calif.
Mathias, Dr. Mildred E.	University of California	Los Angeles, Calif.
Ornduff, Robert	University of California	Berkeley, Calif.
<u>Colorado</u>		
Fleming, Henry S.	University of Colorado	Boulder, Colo.
Rogers, David J.	University of Colorado	Boulder, Colo.
<u>Florida</u>		
McDaniel, Sidney	Florida State University	Tallahassee, Fla.
Bechner, John	University of Florida	Gainesville, Fla.
Smith, Robert B.	University of Florida	Gainesville, Fla.
Ward, Daniel B.	University of Florida	Gainesville, Fla.
<u>Illinois</u>		
Balbach, Dr. Harold	Eastern Illinois Univ.	Charleston, Ill.
Funk, Richard C.	Eastern Illinois Univ.	Charleston, Ill.
Goodrich, Michael A.	Eastern Illinois Univ.	Charleston, Ill.
Evers, Dr. Robert A.	Ill. Nat. History Survey	Urbana, Illinois
Stannard, Lewis J.	Ill. Nat. History Survey	Urbana, Illinois
Sierk, Herbert A.	MacMurray College	Jacksonville, Ill.
Hall, Marion T.	The Morton Arboretum	Lisle, Illinois
Swink, Floyd	The Morton Arboretum	Lisle, Illinois
Harmet, Kenneth H.	Northern Illinois Univ.	DeKalb, Illinois
Happ, Dr. George B.	Principia College	Elsah, Illinois
Kilburn, Paul D.	Principia College	Elsah, Illinois
Bollwinkel, Carl W.	Southern Illinois Univ.	Carbondale, Ill.
Maxwell, Richard H.	Southern Illinois Univ.	Carbondale, Ill.

<u>NAME</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Hicks, Arthur J.	University of Illinois	Urbana, Ill.
Jones, Dr. G. Neville	University of Illinois	Urbana, Ill.
Jones, Mrs. G. Neville	University of Illinois	Chicago, Illinois
Payne, Willard W.	University of Illinois	Urbana, Ill.
Reed, Dr. Charles A.	University of Illinois	Chicago, Ill.
Seago, Katherine B.	University of Illinois	Urbana, Ill.
Sieren, David J.	University of Illinois	Urbana, Ill.
Williams, Louis O. or Burger, W. C.	Field Museum	Chicago, Illinois

Indiana

Coons, Patricia	Indiana University	Bloomington, Ind.
Hausman, Beth	Indiana University	Bloomington, Ind.
Heiser, Charles	Indiana University	Bloomington, Ind.
Jones, C. Eugene	Indiana University	Bloomington, Ind.
Kirby, Bonnie	Indiana University	Bloomington, Ind.
McCullough, James	Indiana University	Bloomington, Ind.
Matz, Charles	Indiana University	Bloomington, Ind.
Nelson, David	Indiana University	Bloomington, Ind.
Starr, Martha	Indiana University	Bloomington, Ind.
Walters, Dirk	Indiana University	Bloomington, Ind.
Hennen, Joe F.	Indiana State University	Terre Haute, Ind.

Iowa

Durkee, L. H.	Grinnell College	Grinnell, Iowa
Heimann, G. Allen	Grinnell College	Grinnell, Iowa
Morse, Nancy M.	Grinnell College	Grinnell, Iowa
Wetzel, Howard W.	Grinnell College	Grinnell, Iowa
Will, Susan L.	Grinnell College	Grinnell, Iowa
Isley, Duane	Iowa State University	Ames, Iowa
Lersten, Nels R.	Iowa State University	Ames, Iowa
Mickel, John T.	Iowa State University	Ames, Iowa
Pohl, Dr. Richard W.	Iowa State University	Ames, Iowa
Pyrab, Grant	Iowa State University	Ames, Iowa
Riggins, Rhonda	Iowa State University	Ames, Iowa
Smith, James Payne Jr.	Iowa State University	Ames, Iowa
Schwab, Charlotte	Iowa State University	Ames, Iowa
Weyland, Hendrik B.	Iowa State University	Ames, Iowa
Wetmore, Clifford M.	Wartburg College	Waverly, Iowa

Kansas

McGrath, Larry	Kansas State Teachers' Col.	Emporia, Kansas
Schaefer, Dr. Kurt	Kansas State Teachers' Col.	Emporia, Kansas
Wilson, James S.	Kansas State College	Emporia, Kansas
Anderson, Loran C.	Kansas State University	Manhattan, Kan.
Barkley, T. M.	Kansas State University	Manhattan, Kan.
Robinson, Dr. Albert	Kansas Wesleyan University	Salina, Kansas

<u>NAME</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
<u>Kentucky</u>		
Davis, William S.	University of Louisville	Louisville, Ken.
Hunter, Gordon E.	Murray State University	Murray, Kentucky
Hunter, John	Murray State University	Murray, Kentucky
<u>Louisiana</u>		
Brown, Clair A.	Louisiana State University	Baton Rouge, La.
Christian, Dr. James	Louisiana Polytechnic Inst.	Ruston, La.
Rhodes, Dr. Donald G.	Louisiana Polytechnic Inst.	Ruston, La.
Montgomery, George	Northeast La. State College	Monroe, La.
Stegall, Horace F.	Northeast La. State College	Monroe, La.
Thomas, R. Dale	Northeast La. State College	Monroe, La.
<u>Maryland</u>		
Chambers, Dr. Kenton		Kensington, Md.
<u>Massachusetts</u>		
Lawrence, Dr. Barbara	Harvard University	Cambridge, Mass.
Patterson, Dr. Bryan	Harvard University	Cambridge, Mass.
Schultes, Dr. Richard	Harvard University	Cambridge, Mass.
Nickerson, Norton H.	Tufts University	Medford, Mass.
<u>Michigan</u>		
Beaman, John H.	Michigan State University	East Lansing, Mich.
Denton, Melinda	University of Michigan	Ann Arbor, Mich.
Farrar, Donald R.	University of Michigan	Ann Arbor, Mich.
Hines, David M.	University of Michigan	Ann Arbor, Mich.
McWilliams, Dr. Edward	University of Michigan	Ann Arbor, Mich.
Stephenson, Susan	University of Michigan	Ann Arbor, Mich.
Taylor, Marvin J.E.	University of Michigan	Ann Arbor, Mich.
Tessene, M. F.	University of Michigan	Ann Arbor, Mich.
Voss, Edward G.	University of Michigan	Ann Arbor, Mich.
<u>Minnesota</u>		
Owney, Dr. Gerald B.	University of Minnesota	Minneapolis, Minn.
<u>Missouri</u>		
Braasch, Norman L.	Southeast Mo. State College	Cape Girardeau, Mo.
Dudgeon, Edna	Southeast Mo. State College	Cape Girardeau, Mo.
Huckabay, Dr. John P.	Southeast Mo. State College	Cape Girardeau, Mo.
Johnson, Paula	Southeast Mo. State College	Cape Girardeau, Mo.
Kuster, Robert J.	Southeast Mo. State College	Cape Girardeau, Mo.
Ohmart, Edna	Southeast Mo. State College	Cape Girardeau, Mo.
Ohmart, Otto	Southeast Mo. State College	Cape Girardeau, Mo.
Phillips, Davida	Southeast Mo. State College	Cape Girardeau, Mo.

<u>NAME</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Bartlett, Ann	University of Missouri	Columbia, Mo.
Dunn, David B.	University of Missouri	Columbia, Mo.
Fleak, Sam	University of Missouri	Columbia, Mo.
Harmon, William E.	University of Missouri	Columbia, Mo.
Hess, Lloyd	University of Missouri	Columbia, Mo.
Walker, Nancy E.	University of Missouri	Columbia, Mo.
Redfearn, Paul L. Jr.	Southwest Mo. State College	Springfield, Mo.

St. Louis

Anderson, Dr. Edgar	Mo. Botanical Garden	St. Louis
Blackwell, Dr. Will	Mo. Botanical Garden	St. Louis
Burch, Dr. Derek	Mo. Botanical Garden	St. Louis
Croat, Thomas B.	Mo. Botanical Garden	St. Louis
Cutler, Dr. Hugh C.	Mo. Botanical Garden	St. Louis
Gates, Dr. David M.	Mo. Botanical Garden	St. Louis
Lewis, Dr. Walter E.	Mo. Botanical Garden	St. Louis
Muehlenbach, Viktor	Mo. Botanical Garden	St. Louis
Oliver, Mr. Royce	Mo. Botanical Garden	St. Louis
Paddock, Mark W.	Mo. Botanical Garden	St. Louis
Peck, Mr. Kenneth	Mo. Botanical Garden	St. Louis
Putman, Patricia E.	Mo. Botanical Garden	St. Louis
Robyns, Dr. Andre	Mo. Botanical Garden	St. Louis
Taylor, S. Elwynn	Mo. Botanical Garden	St. Louis
Van Schaack, Dr. George	Mo. Botanical Garden	St. Louis
Verhoek, Susan	Mo. Botanical Garden	St. Louis
Elias, Tom	St. Louis University	St. Louis
Dwyer, Dr. John	St. Louis University	St. Louis
Hathaway, Loline M.	St. Louis University	St. Louis
Hayden, Sis. Mary V.	St. Louis University	St. Louis
Herrera, Olga S.	St. Louis University	St. Louis
Kirksbride, Joseph	St. Louis University	St. Louis
Lallathin, Bernard	St. Louis University	St. Louis
Mulligan, Fr. James	St. Louis University	St. Louis
Nowak, Judith	St. Louis University	St. Louis
Mrs. Sauer	St. Louis University	St. Louis
Altevoigt, Ray	Washington University	St. Louis
Austin, Dan	Washington University	St. Louis
Baker, R. K.	Washington University	St. Louis
Ballinger, Royce	Washington University	St. Louis
Delgado, Mike	Washington University	St. Louis
Eisendrath, Erna R.	Washington University	St. Louis
Emlet, Alice	Washington University	St. Louis
Gordon, Vance	Washington University	St. Louis
Hawker, Jon	Washington University	St. Louis
Johnseine, Mrs. Paula	Washington University	St. Louis
Kohl, Dr. Dan	Washington University	St. Louis
Kohl, Mrs. Dan	Washington University	St. Louis
MacBryde, Bruce	Washington University	St. Louis

<u>NAME</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Mack, Alice	Washington University	St. Louis
Marion, Ken	Washington University	St. Louis
Nowicke, Joan W.	Washington University	St. Louis
Ochs, Kay	Washington University	St. Louis
Ridgway, Dr. John	Washington University	St. Louis
Robertson, Mr. Kenneth	Washington University	St. Louis
Sexton, Dr. Owen J.	Washington University	St. Louis
Stalker, Harrison D.	Washington University	St. Louis
Suda, Yutaka	Washington University	St. Louis
Williams, Stephen	Washington University	St. Louis
Chambers, Katherine P.	Harris Teachers College	St. Louis
Hoffman, Joyce B.	Harris Teachers College	St. Louis
Nagel, Lillian	Harris Teachers College	St. Louis
Lissant, Mrs. K. J.	Fontbonne College	St. Louis
Lissant, Kenneth J.	Petrolite Corp.	St. Louis
Ortle, Edward P.	St. Louis Board of Education	St. Louis
<u>Nebraska</u>		
Rand, Dr. Patricia L.	University of Nebraska	Lincoln, Nebr.
<u>New York</u>		
Stimson, William R.	Columbia University	New York, N. Y.
<u>Ohio</u>		
Macior Dr. Lazarus W.	University of Akron	Akron, Ohio
DeJong, Dick C. D.	University of Cincinnati	Cincinnati, Ohio
Anderson, Dennis	Ohio State University	Columbus, Ohio
Cooke, John F.	Ohio State University	Columbus, Ohio
Fisher, T. Richard	Ohio State University	Columbus, Ohio
Frederick, Mrs. V. R.	Ohio State University	Columbus, Ohio
Lowden, Richard	Ohio State University	Columbus, Ohio
Phillips Allene	Ohio State University	Columbus, Ohio
Settle, Wilbur	Ohio State University	Columbus, Ohio
Stuckey, Ronald L.	Ohio State University	Columbus, Ohio
Weber, W. R.	Ohio State University	Columbus, Ohio
Eshbaugh, W. Hardy	Miami University	Oxford, Ohio
<u>Oklahoma</u>		
deWet, Dr. J. M. J.	Oklahoma State University	Stillwater, Okla.
Barclay, Harriet G.	University of Tulsa	Tulsa, Okla.
Buck, Dr. Paul	University of Tulsa	Tulsa, Okla.
<u>Tennessee</u>		
Brown, Floyd	Austin Peay State College	Clarksville, Tenn.
Chester, Dr. Wayne	Austin Peay State College	Clarksville, Tenn.

<u>NAME</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Ellis, William H.	Austin Peay State College	Clarksville, Tenn.
Fowlkes, Richard	Austin Peay State College	Clarksville, Tenn.
Hunter, Nelson B.	Austin Peay State College	Clarksville, Tenn.
Wert, Jonathan	Austin Peay State College	Clarksville, Tenn.
Evans, Dr. A. Murray	University of Tennessee	Knoxville, Tenn.
Channell, R. B.	Vanderbilt University	Nashville, Tenn.
Kral, Robert	Vanderbilt University	Nashville, Tennessee
<u>Texas</u>		
Shinners, Lloyd H.	Southern Methodist Univer.	Dallas, Texas
<u>Utah</u>		
Shaw, Dr. Richard J.	Utah State University	Logan, Utah
<u>Washington D. C.</u>		
Fosberg, F. R.	Smithsonian Institution	Washington, D.C.
Shetler, Stanwyn G.	Smithsonian Institution	Washington, D.C.
Wurdack, John J.	Smithsonian Institution	Washington, D.C.
<u>Wisconsin</u>		
Freckmann, Robert W.	Milwaukee Public Museum	Milwaukee, Wisc.
<u>Canada</u>		
Gillett, Dr. John M.	Plant Research Institute	Ottawa, Ontario
Taylor, R. L.	Plant Research Institute	Ottawa, Ontario
<u>Colombia</u>		
Idrobo, Dr. Jesus	National University	Bogota, Colombia

MISSOURI BOTANICAL GARDEN
"SHAW'S GARDEN"



2315 TOWER GROVE AVENUE
ST. LOUIS, MISSOURI 63110
TOWNSEND 5-0440

10 Oct 67
OCT 10 1967

October 6, 1967

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

Dear Dave:

It turns out that it will be impossible to have your seminar on Thursday morning, 12 October, as planned. When I tried to get hold of people during your long distance call I was unsuccessful. I overlooked the fact that the Editorial Committee of the Flora of North America was meeting here at the Garden on that day. This seriously interferes with an opportunity to hear from you that day.

I have discussed this with Dr. Lewis and Dr. Burch. They feel that if you would be willing to give a presentation on Sunday morning, they could have most of the systematists together.

I hope you can do this for we are anxious to hear from you on this topic. Perhaps you will wish to change your travel plans and not come until Friday.

Sincerely,

Dave

David M. Gates
Director

DMG:fg

Trip to Ho Bot Garden

~~Thurs~~ 10 7⁴⁵ am
13 Fri 10²⁷ am TWA 458
Out ev

Sun 10 9⁰⁵ am
17 Oct Ar 9⁴⁵ am TWA 457

Change ticket
dates

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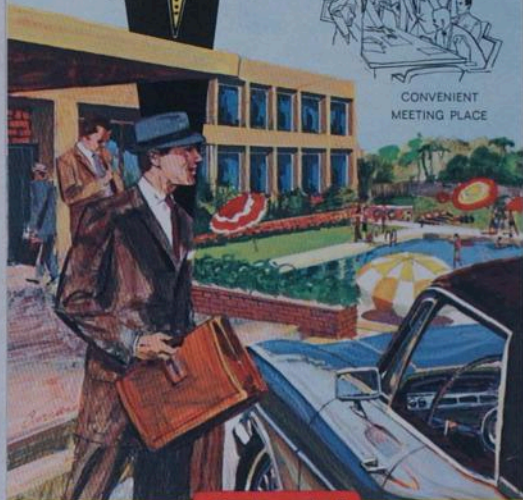
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Oct. 2, 1967

MISSOURI BOTANICAL GARDEN
"SHAW'S GARDEN"



2315 TOWER GROVE AVENUE
ST. LOUIS, MISSOURI 63110
TOWNSEND 5-0440

September 26, 1967

Dr. David J. Rogers
Professor of Botany
Colorado State University
Fort Collins, Colorado

Dear Dave:

We are making final arrangements for the symposium and should have a title for your report and a one or two paragraph summary which we can mimeograph for distribution. Can you let me have this soon?

If you are planning to use slides we have a 2 x 2 projector and a blackboard.

We have made a reservation for you at the Quality Motel, 5120 Oakland Ave., which is just a short distance from the Garden. If you come in from the airport why not take a taxi right to the motel? Let me know when you plan to arrive so I can notify them to make certain they hold your reservation.

The Garden phone number is TO 5-0440 and my home telephone is PR 2-0741.

I am looking forward to seeing you.

Sincerely,

Hugh Cutler
Hugh Cutler
Symposium Chairman

HC:am

Let me know if you want this reservation. Pending the outcome of the American League Pennant race and the coming World Series games in St. Louis, hotels and motels are filling up rapidly.

Summary mailed to Hugh Cutler 30 Oct 67

A Computer-aided Morphological Classification
of Cassava (Manihot esculenta Crantz)

Classification is based on vegetative characters of the species. Population samples were derived from plants growing in the Western Hemisphere tropics, in the West Indies, Central and South America. Groups of cultivars are viewed as "constellations" within a larger universe, and the groups are designated by their major morphological traits, but not given formal taxonomic name or rank. There is no adequate reflection of the reticulate nature of the cultivar relationship given in formal subspecific nomenclature required by the International Rules of Botanical Nomenclature.

The computer programs used to aid in the classification were developed primarily for the purposes of studying the complexities of relationships amongst variations of cultivated species. In the computer, each specimen (population sample) is compared with every other specimen and pair-wise measures of similarity are produced. These similarity measures are used to place the specimens in a series of partitions (hierarchies) and to cluster each with its closest neighbors. Graphing techniques following the clustering program provide a convenient method of illustration of the interrelationships. These methods are the first known application of computers to the classification of a cultivated species in its entirety. The value of the methods to students of cultivated root crops is immense.

2 October 1967

Dr. David Gates
Missouri Botanical Gardens
St. Louis, Missouri 63110

Dear Dr. Gates,

The best schedule arrives at the St. Louis Airport at 10:27 A.M., so I cannot make it to the Garden by 11:00, but I should arrive about 11:30, on Thursday, October 12.

Sincerely,

David J. Rogers
Professor of Biology

DJR:gm

Can you give a short report on your work →
The program is set but we could put in 10 or 15 minutes

Your check has been received and you are registered
for the 14th annual Symposium October 13 - 14, 1967.

Glad you can attend.

Hugh Cutler
Symposium Chairman

Reg. #90

Have to find site
pay transportation
though
Hugh

14th ANNUAL SYMPOSIUM ON SYSTEMATICS
(Supported by a Grant from NSF)

MISSOURI BOTANICAL GARDEN - OCTOBER 13-14, 1967

ATTENDANCE RESTRICTED TO ONLY 170 - All Places are Filled

SUBJECT: ANIMALS AND PLANTS ASSOCIATED WITH MAN

FRIDAY: 7:00-10:00 P.M. Smoker and Registration
(Museum Bldg., 2221 Tower Grove Avenue)
SATURDAY: 9:30 A.M. Symposium - Museum Building
12:00 Noon Buffet Luncheon
6:00 P.M. Dinner - Washington University followed
by a talk by Dr. Mildred Mathis, UCLA

CHAIRMAN: Dr. Bryan Patterson, Harvard University

SPEAKERS: Dr. Barbara Lawrence, Harvard University
Dr. Charles Reed, University of Illinois (Chicago)
Dr. Richard Pohl, Iowa State University
Dr. Hugh Cutler, Missouri Botanical Garden and Washington
University

SPECIAL REPORTS: Dr. Peter Raven, Stanford University
Dr. David Rogers, University of Colorado

PRE-REGISTRATION: Only those who registered and received confirmation
may attend because space is limited. No one who has
not registered will be admitted.

ACCOMMODATIONS: It is not possible for the Garden to make reservations.
"World Series" games may make space scarce. Nearby
hotels and motels are as follows:

⇒ Quality Motel
5120 Oakland Ave.

\$12.00 single; \$14.00 double

2 for Oct 12, 13, 14

Crystal Motel
7746 Watson Road

\$7.00 for 1; \$8.00 for 2.

Y.M.C.A.
1528 Locust St.

\$4.00; \$5.00 and \$6.00 - Single only, air conditioned.

Congress Inn
6543 Chippewa

\$11.00 single; \$14.00 double (2 double beds)

BARRACKS:

Floor space (hard) will be available for participants.
Bring your own sleeping bag, air mattress.

MEALS:

For those using barrack accommodations a simple
breakfast will be available Saturday morning. Buffet
lunch Saturday noon in the concourse of the new green-
house; Dinner 6:00 P.M. at Wohl Center, Washington
University, 6515 Wydown Boulevard, St. Louis, Mo.

LIBRARY & HERBARIUM:

It will be possible to make arrangements to use the
library and/or herbarium from 10 to 3 P.M. on Sunday

NO TRAVEL ALLOWANCE WILL BE PAID THIS YEAR

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NO TRAVEL ALLOWANCE WILL BE PAID THIS YEAR

MISSOURI BOTANICAL GARDEN
"SHAW'S GARDEN"



2315 TOWER GROVE AVENUE
ST. LOUIS, MISSOURI 63110
TOWNSEND 5-0440

314

June 7, 1967

Dr. David J. Rogers
Professor of Botany
Colorado State University
Fort Collins, Colorado

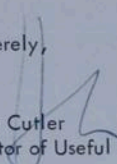
Dear Dave:

I am glad that you and Fleming are coming to the Symposium and that you would be willing to spend a few minutes to give a brief report on your work. We have set up the program so that we do not have any more travel money available. I think it would be a good time, however, to report on your progress and refer to the Annals paper if you could do this in ten or fifteen minutes. It should be good propaganda for your institution. I am looking forward to seeing you in the Fall.

We have been very busy here and I expect that we won't get out to the West before 1968.

If you and your family are coming this way I hope you will stop in. We plan to go to Wisconsin most of the summer where I hope to do some catching up on reading and writing. Bill is in Buffalo with VISTA and will go back to the University of Kansas next Spring if the draft doesn't catch him.

Sincerely,


Hugh Cutler
Curator of Useful Plants

HCC:am

2 October 1967

Quality Motel
5120 Oakland Avenue
St. Louis, Missouri

Gentlemen:

Please reserve a double room for me and Mr. Henry Fleming for the nights of Thursday, Friday, and Saturday, October 12, 13, and 14. We will be attending the meeting at the Missouri Botanical Garden.

I am enclosing a postcard on which you can confirm this reservation.

Yours truly,

David J. Rogers
Professor of Biology

DJR:gm

- Taximetrics Laboratory

June 8, 1967

Dr. Hugh Cutler
Missouri Botanical Garden
2315 Tower Grove Ave.
St. Louis, Missouri 63110

Dear Hugh:

I'll take the 10 or 15 minutes. Sorry I wasn't in on
the planning of this.

Sincerely,

David J. Rogers
Professor of Botany

DJR/ch

- Taximetrics Laboratory

May 26, 1967

Dr. Hugh Cutler
Missouri Botanical Garden
2315 Tower Grove Ave.
St. Louis, Missouri 63110

Dear Hugh:

Glad to hear the topic for the Missouri Botanical Garden's annual symposium. Mine and Fleming's reservations are enclosed. Fleming is writing a check for both fees. You note that we will be moving to Boulder July 1, and that is the reason the address is given as University of Colorado and not Colorado State University.

If you haven't fixed the program entirely, I would very much like to report on our completed computer classification of the cultivars of M. esculenta. The computer has given us a number of new insights into how groups of these types of plants may be classified and offers a chance to see the overall variation that exists in a cultivated group. I think the model and the method offer some significant advances in cultivated plant taxonomy.

We will hopefully have produced by that time a fair sized paper for the Annals (I have already been in correspondence with Lewis on this), so I should have a good sound contribution to make. I hope you can arrange it.

Best regards,

David J. Rogers
Professor of Botany

DJR/ch

Enc. 2 reservation forms
1 check (\$10.00)