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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.

INTERNATIONAL SOCIETY  
FOR  
TROPICAL ROOT CROPS

c/o DEPARTMENT OF BIOLOGICAL SCIENCES,  
THE UNIVERSITY OF THE WEST INDIES  
St. Augustine, Trinidad, W.I.

SECOND CLASS  
AIR MAIL

Dr. David J. Rogers,  
Department of Biology,  
University of Colorado,  
Boulder, Colorado 800302,  
U.S.A.

THIRD INTERNATIONAL  
SYMPOSIUM ON TROPICAL ROOT CROPS

TO BE HELD AT  
THE INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE  
IBADAN, NIGERIA

2nd - 9th December, 1973

INFORMATION CIRCULAR No. 2

## THIRD INTERNATIONAL

### SYMPOSIUM ON TROPICAL ROOT CROPS

The Symposium is scheduled to be held between December 2nd and 9th, 1973. Our hosts for this meeting will be the International Institute of Tropical Agriculture (I. I. T. A.), Ibadan, Nigeria. It is hoped that those who replied to the 1st Information Circular will reconfirm their intention to attend the Ibadan Symposium.

#### THE SYMPOSIUM

As stated in the 1st Information Circular, the Symposium will be designed to review recent achievements in research as well as in production and utilisation of tropical root crops. It should also provide opportunities for developing collaborative work both on an international and on a regional basis. Reports of study groups on Cassava utilisation and processing and on the Process of tuberisation in tropical root crops will be presented at the Symposium.

#### I.S.T.R.C. TRAVEL FELLOWSHIPS

With the support of the International Development Research Centre (I.D.R.C.) Canada, the Society is now in a position to offer at least eighteen (18) Travel Fellowships, to young scientists from developing countries in Africa, Asia and Latin America, including the Caribbean. Application forms for fellowships have been circulated to Society members. The closing date for application is 30th April, 1973.

#### CALL FOR PAPERS

Abstracts of papers to be presented at the Symposium should be submitted by 30th April, 1973 and full texts of papers by 31st August, 1973, in English, French, or Spanish. Abstracts should be restricted to not more than 100 words and papers to not more than 3,000 words. Five copies of abstracts

and papers should be submitted in the format described in the loose leaf enclosure.

#### HEADQUARTERS OF THE SYMPOSIUM

Meetings will be held at the I. I. T. A. Conference Centre, which is fully equipped to accommodate up to 176 delegates, seated at tables. Each table is supplied with two microphones and four sets of earphones for simultaneous translations.

#### TRANSLATION

Summaries of papers will be translated into English, French and possibly Spanish provided they are submitted by 30th April, 1973. There will also be simultaneous translation of presented papers in English and French at the Symposium.

#### PROJECTION FACILITIES

Projection facilities include 16 mm. motion picture projectors, 35 mm. slide projectors and an overhead projector.

#### DEMONSTRATIONS

Delegates are encouraged to bring compact demonstrations of their work for display during the Symposium e.g. pictures, illustrated diagrams, models of equipment etc. Indication of intention to mount demonstrations, with brief descriptions of demonstrations, including size and space required, should be communicated to the Society by 30th August, 1973.

#### PROCEEDINGS OF SYMPOSIA

In order to facilitate rapid publication of Proceedings of the Ibadan Symposium, delegates will be asked to check their papers during the Symposium and to deposit corrected copies with Society representatives before leaving Ibadan. The second volume of the Proceedings of the Hawaii Symposium will be available shortly. Copies of Proceedings of Volume 2, as well as Volume 1, could be obtained by

contacting Professor Donald Plucknett, College of Tropical Agriculture, Department of Agronomy and Soil Science, University of Hawaii, Honolulu, U.S.A.

#### ACCOMMODATION AT IBADAN

Accommodation for approximately seventy delegates is available at the I.I.T.A. Training Hostel. Rooms are designed for double occupancy, are quite comfortable and cost of room and full board will be US \$15/day (approx.). Reservations for delegates will also be sought at the University of Ibadan Guest House, located four miles from I. I. T. A. at an approximate cost of US \$15/day. A limited number of single rooms are available at this Guest House. Accommodation is also available at the Premier Hotel, located nine miles from I. I. T. A. at costs ranging from US \$15 to \$24/day.

#### TRAVEL TO NIGERIA

Delegates are advised to seek visas for entry into Nigeria well in advance of departure dates. All on-going visas should also be secured before arriving in Nigeria. Health certificates for small pox, cholera, and yellow fever are necessary for entry into Nigeria, inoculations against typhoid are advised and prophylactic drugs against malaria should be taken one week before, while in Nigeria, and for two weeks thereafter. Nigeria is a tropical country and light summer clothing will be appropriate.

#### CORRESPONDENCE

Correspondence on the Symposium should be addressed to the Organising Committee, Third International Symposium on Tropical Root Crops, Department of Biological Sciences, U.W.I., St. Augustine, Trinidad, W.I.

#### GROUP TRAVEL

The Delegates interested in participating in Group Travel from London to Nigeria are asked to contact the Organising Committee before 30th April, 1973.

INTERNATIONAL SOCIETY FOR TROPICAL ROOT CROPS

THIRD INTERNATIONAL SYMPOSIUM  
ON TROPICAL ROOT CROPS

SUBMISSION OF PAPERS & PREPARATION OF MANUSCRIPTS

SUBMISSION OF PAPERS

The Organizing Committee of the Symposium must receive five (5) copies of each paper.

Papers should be word-perfect, free from typographical errors and should require minimal editing. Abstracts should not exceed 100 words (10 lines approx.) and texts of papers, 3,000 words (10 pages approx.) using double spacing.

PREPARATION OF MANUSCRIPTS

A. Texts

Text and tables must be typed on good-quality, white paper. Printing should be on one side only.

The text should measure 16 cm (6.4 in.) in width and 24 cm (9.5 in.) in height. Diagrams and tables should also fit these dimensions. Paper of 21 x 27 cm (8.5 x 11 in.) is recommended.

B. Pagination

Pages must be numbered consecutively. The number should be placed in the center top of each page, above the text and should take into account tables and figures which will occupy an entire page.

The first page must include:-

- The title
- Name(s) of the author(s), institutional affiliation (briefly noted) and address.
- The abstract in the same language as the text (approx. 10 lines).
- The translated abstract placed just below the preceding abstract. If this has not been included, a space large enough to accommodate the translation should be left.

The second page will bear the title and the name of the author and also the beginning of the text. If texts (pages 2 et seq.) are submitted separately from abstracts (page 1) affiliations and addresses of authors should be submitted on a separate page attached to the text.

C. Subtitles and Notes

Subtitles of sections should be typed on a separate line and not underlined.

Notes must be typed at the foot of the page to which they relate and should be separated from the text by a solid horizontal line across the page.

D. Tables, Diagrams, Photographs

Tables and diagrams will be numbered consecutively in Arabic numerals, adopting two separate numbering sequences - one for the tables, and one for the diagrams:-

Table 1 . . . Table 2 . . . etc.

Fig 1 . . . Fig 2 . . . etc.

It is recommended that tables be typed within the text. If they are submitted separately, please put them in their proper place within the text pages.

Original drawings and diagrams should be in black India ink on white, unlined drawing paper. Clear photocopies should be used for extra copies of papers.

Photographs should be printed in black and white on glossy paper.

E. Units

Authors are requested to use the International System of Units.

F. References and Bibliography

References within the text should be indicated by a bracketed number e.g. (1), which refers to the bibliography at the end of the manuscript.

The bibliographical references should be typed on a separate sheet and should be in the following order:-

For a Book - Author's name and initial, title of book, publisher, page number, year of publication.

For a Journal Article - Author's name and initial (if there are several, include only the first name followed by et al.), year of publication (bracketed), title of the article, accepted abridged title of the journal, volume number underlined, page numbers.

e.g. Spence, J.A. (1972) Effect of moisture supply, root temperature and growth regulators on photosynthesis of isolated leaves.

Ann. Bot. 36, 115 - 121.

16 cm 6 1/4"

COMPARISON OF THE YIELD POTENTIAL OF TEN SWEET POTATO CULTIVARS

by

C. Mc David

The University of the West Indies, Department of Biological Sciences,  
St. Augustine, Trinidad, W.I.

and

W. Omawale

University of Guyana, Department of Biology, Georgetown, Guyana, S.A.

Abstract in first language (approximately 10 lines)

Abstract in second language (approximately 10 lines)

Sample first page 24 cm 9 1/4"

16 cm 6 1/4"

16 cm 6 1/4"

COMPARISON OF THE YIELD POTENTIAL OF TEN SWEET POTATO CULTIVARS

by

C. MC DAVID and W. OMAWALE

Sample second page 24 cm 9 1/4"

16 cm 6 1/4"



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Fold along this line

PLACE  
STAMP  
HERE

To:  
Treasurer

INTERNATIONAL SOCIETY FOR TROPICAL ROOT CROPS

Department of Biological Sciences,  
University of the West Indies,  
St. Augustine,  
Trinidad.

Fold along this line

*D. G. Rogers -  
Univ. of Colorado -*



INTERNATIONAL SYMPOSIUM ON TROPICAL ROOT CROPS  
UNIVERSITY OF THE WEST INDIES  
ST. AUGUSTINE, TRINIDAD.

PROGRAMME  
AND  
SUMMARIES OF PAPERS

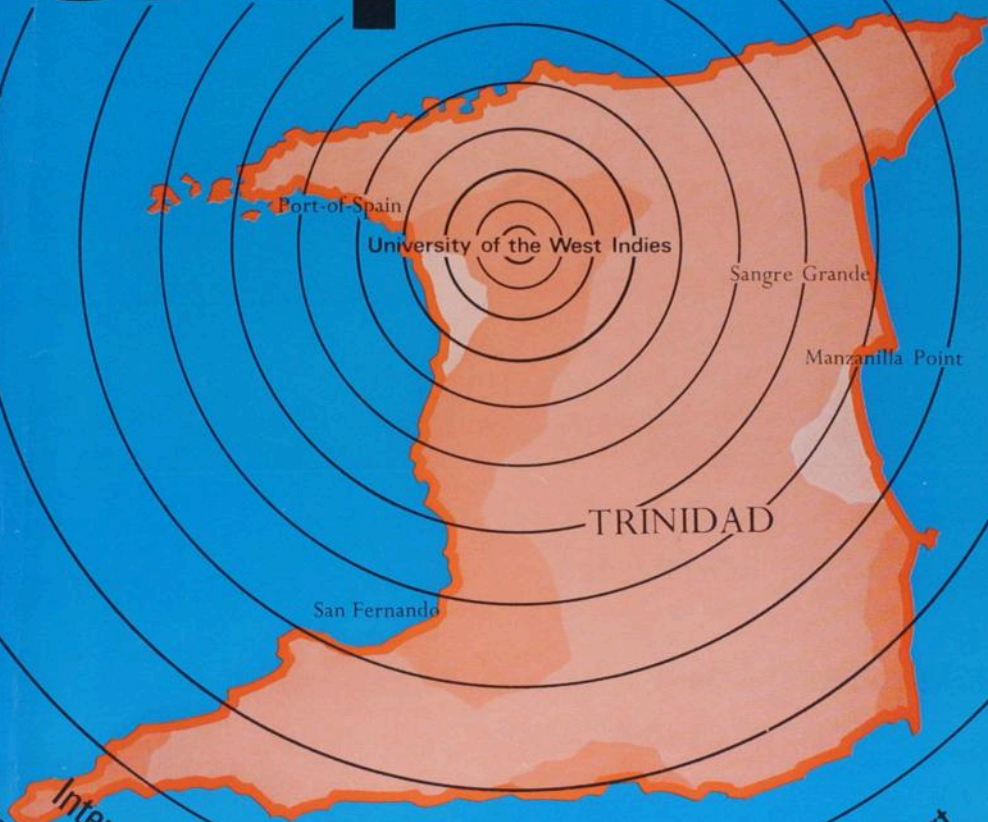
2 — 8 April 1967

# world crops

the journal of international agriculture

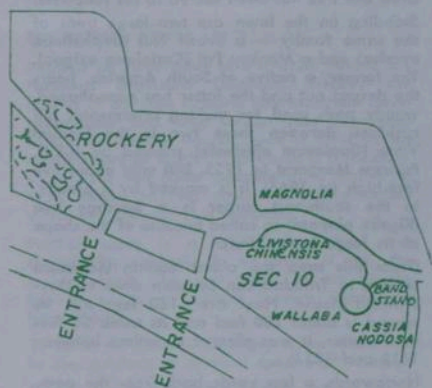
AUG 9 1967

June 1967



International Symposium on Tropical Root Crops Conference Report

# royal botanic gardens



a trinidad and tobago  
tourist board publication



INTERNATIONAL AGRICULTURAL SYMPOSIUM  
UNIVERSITY OF THE WEST INDIES, ST. AUGUSTINE, TRINIDAD  
APRIL 2 - 8, 1967

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# world crops

JUL 24 1967

THE TOWER · 229-243 SHEPHERD'S BUSH RD · HAMMERSMITH · LONDON W6 · RIVERSIDE 3071 · GRAMS : INDUSTPRES LONDON W6

18 July 1967

Dr. David J. Rogers,  
Department of Botany,  
Colorado State University,  
Ft Collins,  
Colorado 80521,  
U.S.A.

Dear Dr. Rogers,

As a delegate to the International Symposium on Tropical Root Crops organised by the University of the West Indies in Trinidad you may be interested to know that a full report appears in the current issue of WORLD CROPS.

A copy of the journal is being sent to you, surface mail, which you should be receiving in the next few weeks. I would be pleased if you would accept this with my compliments as a reminder of the week.

Yours sincerely,  
WORLD CROPS



*W* K. W. Bean,  
Editor.

Universidad de Puerto Rico  
RECINTO DE MAYAGUEZ  
ESTACION EXPERIMENTAL AGRICOLA  
Río Piedras, Puerto Rico 00928

PROGRAMA DE SEMILLAS  
Oficina del Director

May 1, 1967

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

Through: Director's Office

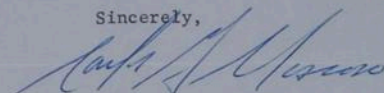
Dear David:

I was pleased to receive your letter of April 24. Thank you very much for the information. I will try to get a copy of the book you mentioned as soon as possible.

I really appreciated the opportunity of having an exchange of ideas with you at the Symposium in Trinidad, and I hope that you will be able to come back to visit Puerto Rico again.

Once again, my best wishes to you, and with personal regards

Sincerely,



Carlos G. Moscoso  
Horticulturist

INTERNATIONAL SYMPOSIUM ON TROPICAL ROOT CROPS

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7. Mr. Carlos Sanchez,  
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2. Mrs. P. Jelliffe }
3. Mr. L. Kasasian - Herbioides Unit
4. Dr. G. Sidrak, Dept. of Botany
5. Prof. A.D. Skelding, Dept. of Botany.
6. Mr. J. McKigney Caribbean Food & Nut. Inst.

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2. Dr. B. D. Ainscough, Zoology.
3. Dr. M. Alexander,  
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4. Dr. C. Allen,  
Dept. of Agric. Animal Prod.
5. Mr. C.P. Cacho, Bursar's Office.
6. Mr. W. Charles, Food Crops.
7. Mr. S.M. Chhangur, Public Rel. Adm.
8. Mr. R.F. Barnes, Bot. & Plant Path.
9. Dr. F.W. Cope, Bot. & Plant Path.,
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Dean, Faculty of Agriculture
21. Mr. A. MacIntyre,  
Econ. Fac. of Social Sc.
22. Dr. R.E. Pierre,  
Crop Protection.
23. Dr. R.W. Radley  
Dept. of Agric. Crop Prod.
24. Dr. W.V. Royes, Food Crops
25. Mr. V. Sargeant  
Chemistry
26. Prof. E. Sauer  
**Agric. Econ. & Farm Man.**
27. Dr. C.E. Seaforth  
Chemistry, New. Chem Bldg.
28. Mr. M.D.J. Seeyave,  
Herbicides
29. Dr. J.A. Spence, Botany
30. Prof. B.T. Stephanson  
Dept. of Agric. Crop Prod.
31. Prof. E.A. Tai, Hd.  
Dept. of Agric. Crop Prod.

UNIVERSITY OF THE WEST INDIES,  
St. Augustine,  
TRINIDAD (cont'd)

32. Dr. C.C. Weir, Citrus Res.
33. Mr. S.J. Williams,  
Dept. of Agric. Crop Prod.
34. Mr. D.B. Williams,  
Food Crops.

STUDENTS

1. Mr. H. Beckford
2. Mr. T. Beddoe
3. Mr. V. Bernhard
4. Mr. E. Christie
5. Mr. T. Ferguson
6. Miss T. Gardner-Brown
7. Mr. W. Georges
8. Mr. W. Gordon
9. Mr. D. Henry
10. Mr. C.B. Holder
11. Mr. J. Johnson
12. Mr. L. Liverpool
13. Mr. F. Neckles
14. Mr. L. Russell
15. Mr. G. Stewart
16. Mr. H. Wallace

MINISTRY OF AGRICULTURE, LANDS AND  
FISHERIES,  
ST. CLAIR CIRCLE. PORT OF SPAIN

1. Dr. T.W.A. Carr
2. Dr. R. Barrow
3. Mr. L. Cross
4. Mr. M. Dookeran
5. Mr. S.E. Edwards
6. Mr. E.J. Hamilton
7. Mr. Moosai-Naharaj
8. Dr. M. Singh
9. Dr. L.A. Wilson

TRINIDAD ( SHELL)

Shell T'dad Ltd.

1. Mr. M. Clarke
2. Mr. V. Ho-a-Shu
3. Mr. L. James

TRINIDAD

1. Mr. L. LeGendre,  
Empire Sales and Agencies,  
Cor. St. Vincent & Trag. Rd.,  
Port of Spain.
2. Mr. J. Pires,  
c/o Caribbean Chemicals  
& Agencies Ltd.,  
57 Aberromby Street,  
Port of Spain.
3. Mr. Phil Vieira,  
c/o T'dad. Guardian,  
22, St. Vincent Street,  
Port of Spain.
4. Dr. G. Montserin,  
2, Pasea Street,  
St. Augustine.

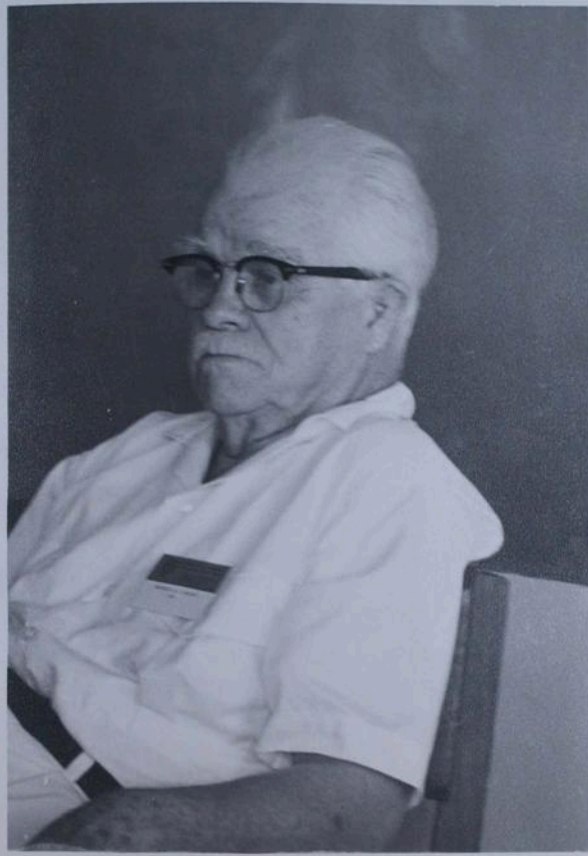
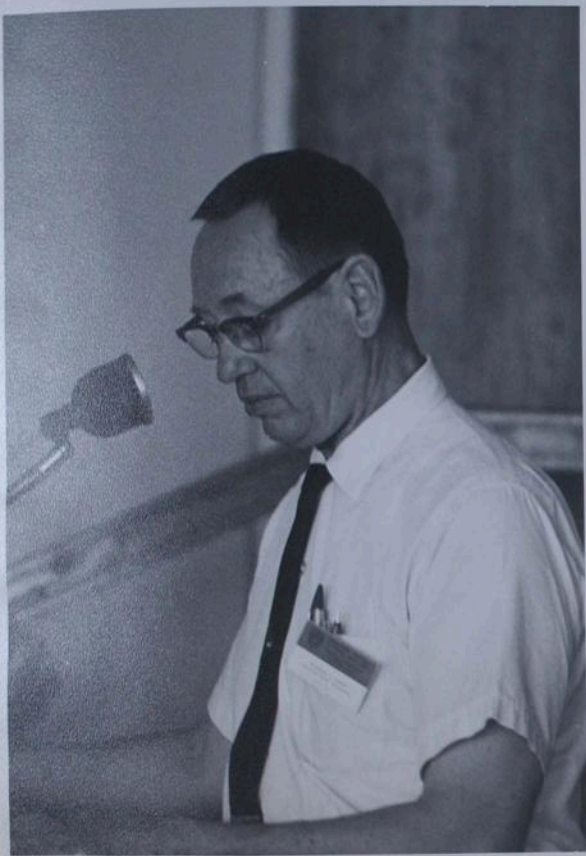
U.S.A., HAWAII & THE PHILIPPINES

1. Mr. Ramon S. de La Pena,  
Dept. of Agronomy and Soil Science,  
University of Hawaii,  
2525 Varney Circle,  
Honolulu,  
Hawaii 96822,  
HAWAII
2. Professor T. Hernandez,  
Louisiana State University,  
Baton Rouge,  
Louisiana,  
U.S.A.
3. Professor B.F. Johnston,  
Food Research Institute,  
Stanford University,  
Stanford,  
California 94305,  
U.S.A.
4. Dr. W.O. Jones,  
Food Research Institute,  
Stanford University,  
Stanford,  
California 94305,  
U.S.A.
5. Dr. William N. Lipe,  
Santo Domingo (AID/JK),  
Dept. of State, Washington D.C. 20521,  
U.S.A.
6. Dr. W.J. Martin,  
Dept. of Plant Pathology,  
Louisiana State University,  
Baton Rouge, Louisiana 70803,  
U.S.A.
7. Dr. J.H. MacGillivray,  
Rte 1, Box 7,  
Meadowbrook,  
Davis, California,  
U.S.A.
8. Dr. Eion G. Scott,  
2062 Agric. Sciences Bldg.,  
West Virginia University,  
Morganstown,  
W. Virginia 26506,  
U.S.A.
9. Dr. E.E. Trujillo,  
Dept. of Plant Patholog ,  
University of Hawaii,  
1825 Edmondson Rd.,  
Honolulu,  
Hawaii 96822,  
HAWAII
10. Mr. Douglas E. Yen,  
B.P. Bishop, Museum,  
Honolulu, Hawaii 96819,  
HAWAII
11. Dr. David J. Rogers,  
Dept. of Botany,  
Colorado State University,  
Ft. Collins,  
Colorado 80521,  
U.S.A.
12. Dr. R. Richardson,  
Associate Director,  
The Rockefeller Foundation,  
111 West 59th Street, New York,  
N.Y. 10020,  
U.S.A.

Addresses - Trinidad Symposium  
(Root Crops)  
April 2-8, 1967

Mr. S. G. Appan  
Farm Manager  
Central Tuber Crops Research Institute  
Indian Council of Agricultural Research  
Trivandrum-3, Kerala  
India

Dr. M. L. Magoon  
Director  
Central Tuber Crops Research Institute  
I.C.A.R.  
Trivandrum-3,  
India



UNIVERSITY OF THE WEST INDIES

SYMPOSIUM ON TROPICAL ROOT CROPS

CABLE: "STOMATA" PORT-OF-SPAIN

OFFICE OF SECRETARY:

DEPARTMENT OF AGRICULTURE, CROP PRODUCTION  
UNIVERSITY OF THE WEST INDIES,  
ST. AUGUSTINE, TRINIDAD, W.I.



OUR REFERENCE: CP332/19/67

31st March, 1967.

Dear *D. J. Rogers,*

Welcome to the International Symposium on Tropical Root Crops! I hope that you will find it interesting and we look forward to your contribution,

Enclosed herewith is a cheque for \$357.00 TT to meet your day to day expenses for the duration of the Symposium, 2nd - 8th April,

Yours sincerely,

Handwritten signature of Egbert A. Tai in dark ink.

EGBERT A. TAI,

(Chairman, Organising Committee).

Professor D.J. Rogers,  
c/o International Symposium  
on Tropical Root Crops,  
University of the West Indies,  
St. Augustine.

# Clerk of the District Court


Larimer County

FORT COLLINS, COLORADO

March 10, 1967

Received from David James Rogers \$2.00 for execution  
of Application for Passport.

Also received from David James Rogers check payable  
to the Passport Office in the sum of \$9.00 for Passport.  
Said check mailed to Passport Agency in San Francisco,  
California, with the application.

  
Deputy Clerk of the District Court

MOVIE PLANTS--MANIHOT

<u>Original Specimen Numbers</u>	<u>Movie Numbers</u>	<u>Group Numbers</u>	<u>Membership</u>
114	1	I	<u>Linear</u>
120	2	IIa	1
127	3	IIc	6
128	4	IIc	14
129	5	IIa	16
132	6	I	<u>Obovate</u>
134	7	IIa	<u>Unbranched</u>
271	8	IIc	2
289	9	IIc	5
294	10	IIa	7
299	11	IIc	10
301	12	IIId	15
302	13	IIId	<u>Few Branched</u>
303	14	I	18
291	15	IIa	19
319	16	I	<u>Many Branched</u> <u>7-Lobed</u>
378	17	IIc	3
432	18	IIb	4
448	19	IIb	8
450	20	IIId	9
			11
			17
			<u>5-Lobed</u>
			12
			13
			20

REQUEST FOR OUT-OF-STATE TRAVEL AUTHORIZATION  
 COLORADO STATE UNIVERSITY

Name: David J. Rogers

Destination: Trinidad & Tobago

Title: Professor of Botany

Purpose: Attend International Symposium

Proposed mode of travel: (Check applicable)

on Tropical Root Crops and to collect  
additional plant material of Manihot.

Train \_\_\_\_\_ Plane  Bus \_\_\_\_\_

State Vehicle \_\_\_\_\_ Federal Vehicle \_\_\_\_\_

Car   
 Plane

Dates of Absence:

Personal Vehicle \_\_\_\_\_ Other \_\_\_\_\_

Leave: Date April 1 Time 7 a.m.

Auto Rental

Airline United Flight No. 164

Passengers if travel by vehicle \_\_\_\_\_

Return: Date April 10 Time 10:30 p.m.

Airline United Flight No. 165

Dates of meetings: From April 2 To April 8

ESTIMATED EXPENSE:

Dates of annual leave: From \_\_\_\_\_ To \_\_\_\_\_

Train Fare \_\_\_\_\_  
 Plane Fare \$482.10  
 Bus Fare \_\_\_\_\_  
 Taxi Fare 40.00  
 \*Private Vehicle \_\_\_\_\_  
 Auto Rental 115.25  
 Other \_\_\_\_\_

Source of Reimbursement:

Fund \_\_\_\_\_ Fund \_\_\_\_\_

Transportation, tax exempt: \$637.35

State \_\_\_\_\_

Federal \_\_\_\_\_

Per Diem: 10 days @ \$15 <sup>17</sup> \$150.00

CSURF 26% 17%

Other To be paid by the Univ. 83%  
College, West Indies

If more than one fund is used, incideate amount per fund by percent.

→ Other authorized expenses: \$25.00

Telephone 315.00  
 Vehicle storage \_\_\_\_\_  
 Registration fee \_\_\_\_\_  
 Total \$355.00  
882.35 RR

\*\*Requested by David J. Rogers

TOTAL ESTIMATED EXPENSE: \$882.35

Approved: \_\_\_\_\_  
 Department Head or Section Chief

\*Must be justified by explanatory letter.

Dean or Director

\*\* This authorization must be presented to travel agency when purchasing tax exempt transportation tickets.

CSU Research Foundation

→ Other expense, \$25.00. This amount will be used to hire an assistant for two days in Trinidad to help with the labor of plant collecting and to purchase formaldehyde locally.

Academic Vice-President

Secretary, State Board of Agriculture

From the desk of:

3/20/67

RUTH RITTENHOUSE

Prof. Rogers:

A copy of your approved  
Travel Request was returned to  
A.P. but we don't really need it.  
Perhaps an extra one will be  
convenient for you to have.

R.R.



OFFICE MEMO

TO:

Date

FROM:

SUBJECT:

Trinidad

REMARKS:

Get 2 copies of Agricultural &  
Horticultural Plants of Trinidad & Tobago  
at Bot. Gar. of Port of Spain

REQUEST FOR OUT-OF-STATE TRAVEL AUTHORIZATION  
 COLORADO STATE UNIVERSITY

Name: David J. Rogers : Destination: Trinidad & Tobago  
 Title: Professor of Botany : Purpose: Attend International Symposium  
 Proposed mode of travel: (Check applicable): on Tropical Root Crops and to collect  
 Train \_\_\_\_\_ Plane  \_\_\_\_\_ Bus \_\_\_\_\_ additional plant material of Manihot.  
 State Vehicle \_\_\_\_\_ Federal Vehicle \_\_\_\_\_  
 Car  \_\_\_\_\_  
 Plane  \_\_\_\_\_  
 Personal Vehicle \_\_\_\_\_ Other \_\_\_\_\_  
 Auto Rental  \_\_\_\_\_  
 Passengers if travel by vehicle \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Dates of Absence:  
 Leave: Date April 1 Time 7 a.m.  
 Airline United Flight No. 164  
 Return: Date April 10 Time 10:30 p.m.  
 Airline United Flight No. 165  
 Dates of meetings: From April 2 To April 8

ESTIMATED EXPENSE:

Train Fare \_\_\_\_\_  
 Plane Fare \$482.10  
 Bus Fare \_\_\_\_\_  
 Taxi Fare 40.00  
 \*Private Vehicle \_\_\_\_\_  
 Auto Rental 115.25  
 Other 95.00 (37.35)  
 Transportation, tax exempt: 662.35  
 Per Diem: 10 days @ \$15 \$150.00  
 → Other authorized expenses: 25  
 Telephone \$15.00  
 Vehicle storage \_\_\_\_\_  
 Registration fee 15.00 55.00  
 Total \$20.00  
 TOTAL ESTIMATED EXPENSE: \$882.35 \$842.35

Dates of annual leave: From \_\_\_\_\_ To \_\_\_\_\_  
 Source of Reimbursement:  
 Fund \_\_\_\_\_ Fund \_\_\_\_\_  
 State \_\_\_\_\_  
 Federal \_\_\_\_\_  
 CSURF 2696 17%  
 Other To be paid by the Univ. College of West Indies - 83%

If more than one fund is used, indicate amount per fund by percent.

\*\*Requested by \_\_\_\_\_  
 Approved: \_\_\_\_\_  
 Department Head or Section Chief \_\_\_\_\_  
 Dean or Director \_\_\_\_\_  
 CSU Research Foundation \_\_\_\_\_  
 Academic Vice-President \_\_\_\_\_  
 Secretary, State Board of Agriculture \_\_\_\_\_

\*Must be justified by explanatory letter.  
 \*\* This authorization must be presented to travel agency when purchasing tax exempt transportation tickets.  
 → Other expense, \$25.00. This amount will be used to hire an assistant for two days in Trinidad to help with the labor of plant collecting, and to purchase formaldehyde locally.

H. Collier

Res. April confirmed

Trinidad - Conferum

April - U 164 JFK 9 AM - 2:30

BWIA 421 " 3:30 P - 10:30 P  
Port-Spain

Apr. 9 - BWIA 400 JFK 9 AM - 2:10

U-165

6:30 - 8:30

no passport  
no visa

needs small pox  
vaccinations (yellow health  
card)

Proof of  
matrimony

Birth certificate  
voter registration card

Symposium on Tropical Root Crops  
Trinidad, West Indies  
2nd-8th April, 1967

Contributing author: David J. Rogers, Taxonomy Lab., Department of Botany,  
Colorado State University, Fort Collins, Colorado, USA

Title: A computer-aided morphological classification of cassava (Manihot  
esculenta Crantz).

ABSTRACT

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 inter-relationships. 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.

October 21, 1965

Your reference: CP822/19/65.

Dr. Egbert A. Tsi  
University of the West Indies  
Department of Agriculture  
St. Augustine  
Trinidad, W. I.

Dear Dr. Tsi,

Enclosed herewith is the form indicating my interest in attending the symposium on Tropical Root Crops. I will definitely be interested to hear when you have fixed a date for this symposium.

One question in connection with this symposium, which you may or may not have an answer for, do you have any idea of the financial arrangements for participants at this symposium? Any information in this area will be appreciated.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR/ec  
Encl.

UNIVERSITY OF THE WEST INDIES  
DEPARTMENT OF AGRICULTURE  
CROP PRODUCTION

CABLE: "STOMATA" PORT-OF-SPAIN



In reply please quote

OUR REFERENCE: CPB22/19/65.

ST. AUGUSTINE,  
TRINIDAD, W.I.

4th October, 1965.

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

Dear Dr. Rodgers,

Thank you for your letter of September 27 on the subject of the proposed symposium on Tropical Root Crops which was originally scheduled to be held on March 27 to April 2, 1966. I am pleased to learn of your interest and there is no doubt at all about the welcome that a paper from you on the Classification of Manihot esculenta cultivars will receive.

A copy of the original circular issued on the symposium is enclosed. The information it contains is no longer strictly correct, however, as it has proved unavoidable to have the symposium postponed until next year. At the moment the exact dates have not been decided; you will be kept informed of all developments as they occur.

Yours sincerely,

A handwritten signature in blue ink that reads "Egbert A. Tai".

EGBERT A. TAI,  
(Professor of Agriculture -  
Crop Production).

Enc.

How financed

UNIVERSITY OF THE WEST INDIES

ST. AUGUSTINE, TRINIDAD, W. I.

Dear Sir,

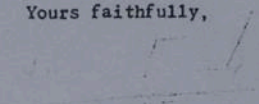
A symposium on "Tropical Root Crops" is being organised by the School of Agriculture of the University of the West Indies during the Easter recess of 1966. It will be held at St. Augustine and is scheduled for 27th March to 2nd April. x

The purpose of the Symposium is to review existing knowledge of the common starchy 'roots' grown in the tropics for food and to define paths that may, with advantage, be followed in future investigations. The main emphasis will be on topics of basic importance to rootcrop production.

We invite your participation in the Symposium and recommend that you complete and return early the enclosed application.

Circulars giving information on the Symposium and the background against which it is to be held are also enclosed.

Yours faithfully,

  
J. Lamb,  
Director,  
School of Agriculture.

x Dates given in this circular are no longer valid.

UNIVERSITY OF THE WEST INDIES

ST. AUGUSTINE, TRINIDAD, W.I.

Preliminary Notice of Symposium on Tropical Root Crops

A Symposium on Tropical Root Crops will be held at the University of the West Indies at the St. Augustine campus in Trinidad during Easter 1966.

Purpose of Symposium.

As countries in the tropics seek to rationalise their food supplies, increasing attention is being given to root crops. In the West Indies, this interest is demonstrated by the work of the School of Agriculture at the University of the West Indies, formerly the Imperial College of Tropical Agriculture. Here research is being carried out on both basic questions and in the field of production. In the study of root crops the Department of Agriculture (Crop Production) in the School of Agriculture has pioneered mechanical methods of harvesting and planting. Other work in the same department has been carried out on storage and out of season production in an attempt at regularising the supplies of these crops. Recent work has involved the use of growth analysis techniques in investigating the response of these crops to chemical fertilizers and staking.

About eight years ago a breeding unit in the Regional Research Centre was established. This unit initiated a programme of crop improvement which included sweet potatoes, yams and edible aroids. A range of cultivars was collected and types with high yield potential and with a tuber disposition suitable for mechanisation were selected. At the same time an active breeding programme with the sweet potato was initiated.

Interest in these crops has spread to other departments in the School, and programmes are in train in Botany, Chemistry (nutrition and biochemistry) and in Crop Protection. Parallel to these more academic interests, the School of Agriculture is associated with Texaco Trinidad Inc. and the Government of Trinidad and Tobago in the operation of a Food Crop Farm. One of the main purposes of setting up this unit is to assess the profitability of various systems of root crop production.

The time now seems opportune for the organisation of a symposium at which workers from the tropics and other related regions can review the present status of knowledge of root crop production. It is hoped that through published proceedings the most recent information on tropical root crops can be disseminated.

### Nature of the Meeting

The proceedings of the meeting will be arranged in six broad sections as detailed below. Papers will be read under these sections during the morning sessions. It is planned to have field and laboratory demonstrations during the afternoon sessions. There will be at least one general seminar period during which the factors contributing to differences in yield of starchy roots in different countries will be discussed. At the end of the meeting a field tour through some of the principal root producing areas and regions of general interest will be organised.

Papers will be presented on topics grouped into six broad sections. These are listed below with samples of some of the topics to be discussed.

#### I. Range of species, their origin, breeding and improvement.

Subjects covered will include:

The origin and spread of sweet potatoes.

Mechanisms militating against the development of breeding programmes in root crops.

Incompatibility mechanisms in sweet potato.

Breeding and selection methods as applied to the improvement of tropical root crops.

#### II. Physiology and Nutrition.

The mineral nutrition of root crops.

The effects of temperature and day length on tuberisation.

The physiology of dormancy.

The physiology of growth.

#### III. Agronomic Production.

Agronomic practice.

Mechanisation.

Out of season production.

#### IV. Crop Protection.

Selected subjects under the three broad groupings:

Pests.  
Disease.  
Weeds.

V. Economics.

The importance of root crop production in the tropics.  
Production costings and input requirements.  
Marketing.

VI. Storage Processing Utilization.

This section will be brief, with a general review of methods available for root crops. It is worth noting that the Department of Chemical Engineering is contemplating holding a conference on Food Processing at St. Augustine also in April 1966.

Dates:

Symposium: 27th March - 2nd April, 1966.

Submission of Abstracts: Final date for submission of abstracts from which final papers will be selected for presentation at the symposium is 31st October, 1965. Abstracts should be submitted in English and while papers in other languages will not be excluded it should be noted that facilities for translation are limited.