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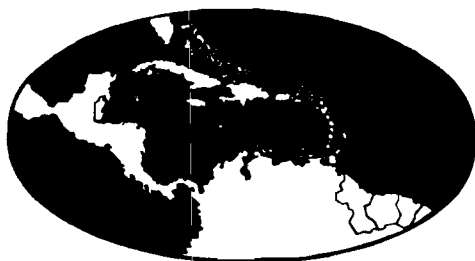
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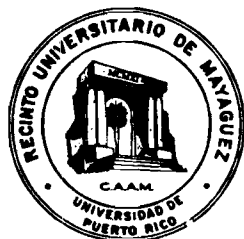
# **CARIBBEAN FOOD CROPS SOCIETY**



**THIRTEENTH ANNUAL MEETING  
ST. AUGUSTINE TRINIDAD, W. I.  
JULY 6-12, 1975**

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**PUBLISHED WITH THE COOPERATION  
OF THE  
UNIVERSITY OF PUERTO RICO  
MAYAGUEZ CAMPUS  
1980**



**VOLUME XIII**

*CARIBBEAN FOOD CROPS SOCIETY*



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*VOLUME XIII*

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*CARIBBEAN FOOD CROPS SOCIETY THIRTEENTH  
ANNUAL MEETING*

*The Thirteenth Annual Caribbean Food Crops Society Meeting was held in St. Augustine, Trinidad as a result of an invitation from the University of the West Indies.*

*This meeting was organized in Trinidad with Dr. Syed Q. Haque as President and Dr. Lawrence A. Wilson as Vice-President. The Caribbean Food Crops Society acknowledges the assistance of the Government of Trinidad and Tobago, the Caribbean Agricultural Research and Development Institute (CARDI), the University of the West Indies and other organizations and individuals too numerous to mention, who contributed to the successful organization fulfillment of the Thirteenth Annual Meeting.*

*This volume of the Proceedings was composited and coordinated under the editorship of George C. Jackson, Secretary.*

***Deep appreciation to the Chancellor Salvador E. Alemañy of the University of Puerto Rico, Mayagüez Campus and to the Staff of the Printing Section for their valuable help publishing this volume.***

CARIBBEAN FOOD CROP SOCIETY

13<sup>th</sup> Annual Meeting

PROGRAMME

SUNDAY 6TH JULY

4:00 - 5:45 p.m. Conference registration

6:00 - 6:30 p.m. Opening Session

Chairman: Dr. S.Q. Haque, President, CFCS

Inaugural address and formal opening of the Conference:

Honorable Lionel Robinson, Minister, Agriculture,  
Lands and Fisheries, Trinidad and Tobago.

6:30 - 8:00 p.m. Cocktail party hosted by the Honourable Minister of  
Agriculture, Lands and Fisheries, Trinidad and Tobago.

MONDAY 7TH JULY

8:30 - 9:30 a.m. Late registration

9:30 - 10:30 a.m. SESSION 1

Chairman: Dr. R. E. Pierre, Executive Director  
Caribbean Agricultural Research and  
Development Institute

The status and potential of Vigna unguiculata Walp in the  
Caribbean - T. U. Ferguson, Caribbean Development Bank,  
Barbados.

Plant parasitic nematodes associated with cowpea (Vigna  
unguiculata Walp) and relation of their population density  
to crop yield - C. W. D. Brathwaite, The University of the  
West Indies, Trinidad.

Canning potential of bodie bean as a green vegetable -  
G. M. Sammy and K. Henry, The University of the West Indies,  
Trinidad.

10:30 - 11:00 a.m. Coffee Break

11:00 - 12:00 m SESSION 2

Chairman: Mr. A. G. Naylor, Ministry of Agriculture, Jamaica.



Some observations on the reaction of bodie bean (Vigna unguiculata Walp) variety Los Banos Bush Sitao 1 to cowpea mosaic virus - S.Q. Haque and P. Dial, The University of the West Indies, Trinidad.

Problems encountered in mechanical harvesting of black eye peas in the immediate savannahs of Guyana - R. E. Fletcher and K. M. Gordon, Central Experiment Station, Mon Repos, Guyana.

12:00 - 1:30 p.m. Lunch Break

1:30 - 2:30 p.m. SESSION 3

Chairman: Professor J. Spence, The University of the West Indies.

Effect of Nitrogen and Phosphorous, Calcium and Molybdenum on grain yield of pigeon pea - R. C. Dalal and P. Quilt, The University of the West Indies, Trinidad.

Some aspects of natural out-crossing in Cajanus cajan (L.) Millsp. - R.P. airyanayagam, The University of the West Indies, Trinidad.

Studies for seed conservation of pigeon pea and cow pea - L. Degras and C. Suard.

2:30 - 3:00 p.m. Coffee Break

3:00 - 4:00 p.m. SESSION 4

Chairman: Mrs. C. Gonsalves, Ministry of Agriculture, Trinidad and Tobago.

Lack of response of soybeans grown on an Ultisol to broadcast residual and banded P-fertilizers -R. del Valle, J. R. Fox and M. A. Lugo-López, Agricultural Experiment Station, Río Piedras, Puerto Rico.

Influence of Oxamyl application on Meloidogyne incognita and Rotylenchulus reniformis penetration into roots of soybean - N. D. Singh, The University of the West Indies, Trinidad.

Behavioural Study of *Ancylostoma stercorea* (Zeller) a podborer on pigeon pea in Trinidad - R. Barrow, Ministry of Agriculture, Trinidad and Tobago.

#### TUESDAY 8TH JULY

9:00 - 10:00 a.m. SESSION 5

Chairman: Dr. D.B. Williams, The University of the West Indies, Trinidad.

Preliminary evidence for resistance to reniform nematode, Rotylenchulus reniformis, in Bengal bean, Stilolobium alterrium - G. Lum Chow and C. W. D. Brathwaite, The University of the West Indies, Trinidad.

Seed production of red kidney bean (Phaseolus vulgaris) at Chaguaramas Agricultural Development Project - Cheryl Gonsalves Ministry of Agriculture, Trinidad & Tobago.

A special presentation on yam propagation - Dr. Sidki Sadik, I.I.T.A. Ibadan, Nigeria.

10:00 - 10:30 a.m. Coffee Break

10:30 - 11:50 a.m. SESSION 6

Chairman: Dr. L. A. Wilson, The University of the West Indies, Trinidad.

New Results in Yam Multiplication - L. Degras and P. Mathurin - IN.R.A. - C.R.A.A.G., Domaine Duclos - 97170, Petit Bourg.

The effect of some soil physical factors on the yield of White Lisbon yams (Dioscorea alata L.) - F. A. Gumbs & T. U. Ferguson, University of West Indies, Trinidad and The Caribbean Development Bank, Barbados.

The effect of spacing of pole supports on Yam (D. Cayenses) vine exposure and yield on continuous mounds, Manchester, Jamaica - H. W. Payne, The University of the West Indies, Jamaica.

11:50 - 1:00 p.m. Lunch Break

Field tour to Chaguaramas Agricultural Development Project  
Depart from J. F. K. Carpark - 1:30 p.m. sharp.

#### WEDNESDAY 9TH

JULY

9:00 - 10:00 a.m. SESSION 7

Chairman: Mr. L. Degras

Would periderm Formation in Dasheen and its effects on storage - B. O. Been, J. Marriott and C. Perkins, Ministry of Industry, Commerce and Tourism, Jamaica.

A preliminary study of a virus disease of yam foliage in the Eastern Caribbean - N. Mohamed & S. H. Mantell, The University of the West Indies, Trinidad.

Preliminary investigations on the biology and ecology of Green Cassava mite Mononychellus tanajoa (Bonder) in Trinidad - M. Yaseen, Commonwealth Institute of Biological Control, Trinidad.

10:00 - 10:30 a.m. Coffee Break

10:30 - 12:00 M. SESSION 8

Chairman - Dr. B. R. Cooper, Caroni Research Station, Trinidad.

Response of Maize (Zea mays) to varying plant densities and time of application of different levels of Nitrogen - C. Ramcharan and R. Ganpat, Ministry of Agriculture, Trinidad and Tobago.

Yield responses of maize (Zea mays L.) in NPK fertilizer trials in some islands of the Commonwealth Caribbean - St. C. M. Forde, The University of the West Indies, Trinidad.

Rice studies at the University of the West Indies - R. A. I. Brathwaite, The University of the West Indies, Trinidad.

12:00 - 1:30 p.m. Lunch Break

1:30 - 2:50 p.m. SESSION 9

Chairman: Dr. T. N. Sreenivasan, Ministry of Agriculture, Trinidad and Tobago.

Current status of insect pests on some food crops in the Caribbean - K. U. Euckmire, The University of the West Indies, Trinidad.

The occurrence of natural hybrids of coconut (Cocos nucifera L.) in Trinidad and their reaction to red ring disease - T. N. Sreenivasan, Ministry of Agriculture, Trinidad & Tobago.

A preliminary Survey of plant parasitic nematodes associated with some cultivated crops in St. Kitts and Nevis - C. W. D. Brathwaite, The University of the West Indies, Trinidad.

The susceptibility of the palm weevil to the red ring nematode R. Griffith, Ministry of Agriculture, Trinidad.

2:50 - 3:20 p.m. Coffee Break

3:20 - 4:20 p.m. SESSION 10

Chairman: B. G. F. Springer, The University of the  
Indies, Trinidad.

An information retrieval system for results of field  
experiments in the Commonwealth Caribbean - A. C.  
Brewer, The University of the West Indies, Trinidad.

The computer as an aid to teaching biometrics to agri-  
culturists - H. L. Back, The University of the West  
Indies, Trinidad.

The Importance of Correct Design and Randomization in  
laying out statistical field trials - F. B. Lauckner,  
The University of the West Indies, Trinidad.

8:00 p.m.

Dinner and shows - Penthouse, Port of Spain  
Jointly sponsored by West Indian Tobacco Co.  
Caribbean Chemicals and Agencies Ltd.  
Geo. F. Huggins & Co. Ltd.  
Empire Sales & Agencies Ltd.  
Tractors & Machinery (Trinidad) Ltd.

THURS. 10TH  
JULY

9:00 - 10:00 a.m. SESSION 11

Chairman: Professor, E. A. Tai, The University of the  
Indies, Trinidad.

The influence of fertilizer and corm size on initial  
plantain growth - G. Samuels & A. Beale, Agricultural  
Experiment Station, Rio Piedras, Puerto Rico.

Mung bean - potential for cultivation in Trinidad &  
Tobago - A. Bart & R. Campat, The Ministry of Agriculture,  
Trinidad & Tobago.

10:00 - 10:30a.m. Coffee Break

10:30 - 11:30 a.m. SESSION 12

11:30 - 1:00 p.m. Lunch Break

Field tour to University Field Station - Texaco Food Crop  
Demonstration Farm - Agricultural Development Bank Project,  
Maracas Valley. Departure J. F. K. Carpark - 1:30 p.m.  
sharp.

FRIDAY 11TH JULY

8:30 - 10:00 a.m. SESSION 13

Chairman: Dr. T. U. Ferguson, Caribbean Development Bank, Barbados.

Workshop on Yams.

10:00 - 10:30 a.m. Coffee Break

10:30 - 12:00 noon SESSION 14

Chairman - Dr. G. Samuels, Agricultural Experiment Station, Rio Piedras, Puerto Rico.

Legume Processing Technology - R. H. Walter, Cornell University, New York, U. S. A.

An assessment of colour in some locally grown tomatoes in Trinidad, W. G. M. Ottaro and W. B. Charles, The University of the West Indies, Trinidad.

Tolerance of tomato cultivars to postemergent application of Lexone (Metribuzin) - G. C. Jackson and C. Sierra, Agricultural Experiment Station, Rio Piedras, Puerto Rico

Primary screening of new unregistered preemergence vegetable herbicides, III - G. C. Jackson, Agricultural Experiment Station, Rio Piedras, Puerto Rico.

1:30 - 4:30 p.m. SESSION 15

Presidential Address: S. Q. Haque

Coffee Break (as convenient).

Business Meeting

Chairman - S. Q. Haque, President, Caribbean Food Crop Society

Agenda: Minutes of last meeting  
Secretary's Report  
Treasurer's Report  
Publication of Proceedings  
Membership  
Report of Sub-Committees  
Election of Officers  
Venue of Next Meeting  
Any other Business

7:30 p.m.

Conference Banquet-Luciano Restaurant,Port of Spain.