



TECHNICAL PROGRAMME

International Society for Horticultural Science (ISHS)

Third International Conference on Postharvest and Quality Management of Horticultural Products of Interest in the Tropics.

"Postharvest technological initiatives to improve food security and market access"

July 1-5, 2013. Hyatt Hotel, Port of Spain Trinidad.

http://sta.uwi.edu/conferences/13/postharvest/References.asp

SUNDAY 30th JUNE 2013

9.00am - 5.00pm	Registration	setting up	posters	ISHS Board Meeting
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6:00pm – 9:00pm Opening Ceremony

Welcome Remarks (Prof. Margrethe Serek (ISHS Commission on Quality

and Postharvest Horticulture)

Guarrero and S. Mitra.

MONDAY 1ST JULY 2013

7:30 – 9:15 am	Registration
9:15 – 10:15am	Professor C. Sankat's feature address
10:30–11:00am	COFFEE BREAK
	POSTHARVEST LOSSES AND PRE-HARVEST EFFECTS Regency Room #2 Moderator: Dr. Lynda Wickham
11:00–11:30 am	Regency Room #2 Keynote address: Reduction of perishable food losses: Integrating concepts from farm to table. Professor Jorge Fonseca, FAO Postharvest Scientist.
11:30-11:45am	Auroria: Good Horticultural practices for reducing postharvest losses and enhancing quality of vegetables. Dr. H. Ramirez- Guarrero, J.C. Moyeja-

11:45–12:00pm	Effect of some biological fertilizers on productivity and postharvest fruit quality of "Adalia onions growing in UAE. Prof. A.F. El-Shiekh, Suez Canal University Egypt.
12:15-12:30pm	Variations of reducing and total sugars in bulb onion tissues during growing and bulbing stages. Ms. S. Steen and Prof. N. Benkeblia.
12:30-1:00pm	DISCUSSION
1:00-2:00pm	BUFFET LUNCH
	PRE-HARVEST EFFECTS Moderator: Dr. Rohanie Maharaj
2:00-2:15pm	Effects of curing treatments on physico-chemical and sensory quality attributes of three pumpkin cultivars. Dr. M. Mohammed, Dr. W. Isaac, Ms. N. Mark and L. Solomon.
2:15-2:30pm	Influence of growth media, cultivars and harvest times on postharvest quality attributes of seven tomato cultivars grown under tropical greenhouse conditions. Mr. J. James Dr. M. Mohammed, Dr. W. Isaac, Ms. N. Mark and Mr. L. Solomon.
2:30-2:45pm	Breeding multi-purpose hot peppers for increased capsaicinoid content. Dr. Musa Mohamed and Dr. P. Bridgemohan.
2:45–3:00pm	Rapid qualitative assessment methodology to determine postharvest levels of capsaicinoids content in ornamental hot pepper crosses. Dr. Musa Mohamed and Dr. Puran Bridgemohan.
3:00-3:15pm	Postharvest quality and nutrient composition of sweet pepper (<i>Capsicum annum</i>) cultivated in different growing media and fertigation. Dr. G. Eudoxie Mr. M. Martin and M. Mohammed.
3:15-3:30pm	DISCUSSION
3:30-4:00pm	COFFEE BREAK
	MATURATION INDICES Moderator: Professor Nourredine Benkeblia
4:00pm – 4:15pm	Correlation of skin colour, firmness, dry matter and maturity of mango cv. East Indian.Mr. B. Diop and Prof. N. Benkeblia.
4:15pm – 4:30pm	Relationship between skin colour, aril and firmness and dry matter and maturity of ackee fruits. Mr. M. Emmanuel Prof. N. Benkeblia.

4:30pm – 4:45pm	Horticultural maturity indices of breadnut Dr. M. Mohammed and Dr. L. Wickham.
4:45pm – 5:15pm	DISCUSSION/ SUMMARY/ POSTER SESSION
6:00pm – 9:00pm	Shuttle Service to UWI Principal's Reception
	TUESDAY 2 ND JULY 2013 Symposium on Postharvest Logistic Systems for Horticultural Commodities in Latin America and the Caribbean Moderator: Dr. L. Roberts-Nkrumah Regency Room #2
8:30-9:00am	Assessment of food logistics in fivecountries in Central and South America. Prof. J. Fonseca, FAO Postharvest Specialist.
9:00-9:30am	Postharvest logistic management strategies in Jamaica. Prof. N. Benkeblia.
9:30-10:00am	Postharvest logistics management strategies in Trinidad and Tobago. Dr. G. Seepersad, Dr. A. Iton and Mr. N.Felix.
10:00-10:15am	A model for postharvest extension in the Caribbean. Dr. W. Ganpat.
10:45 11:30am	PANEL DISCUSSION ON POSTHARVEST LOGISTICS Panelists: Professor Jorge Fonseca, Professor Nourredine Benkeblia. Dr. Govind Seepersad, Dr. Ardon Iton, Mr. N.Felix and Dr. W. Ganpat
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1:00 - 2:00pm LUNCH

ETHYLENE ANTAGONISTS AND POSTHARVEST TREATMENTS

Moderator: Dr. Reynold Stone

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2:00-2:30 pm	<i>Keynote address</i> : Derivatives of 1-MCP interacting with ethylene receptor in plants. Professor Margarette Serek.
2:30–2:45pm	Effect of refrigeration and packages with ethylene absorbents on postharvest quality of miniature bananas cv. Bananito. Dr. A. O. Herrera, Dr. H. E. Balaguera, Dr. J.C. Garcia and Dr. F. A. Salamanca.
2:45-3:00pm	Effects of postharvest dips on quality and level of decay of mango fruits in storage in Yola Nigeria Dr. V.T. Tame, Dr. T.V. Gungula and Dr. I.I. Yarkwan.
3:00–3:15 pm	Conservation of mangoes cv. Palmer treated with UV-C radiation in association with coatings after their transference to environmental conditions. Prof. J. Durigan, Brazil
3:15–3:30 pm	DISCUSSION
3:30 –4:00pm	COFFEE BREAK
	Moderator: Dr. Wayne Ganpat
4:00 – 4:15pm	Moderator: Dr. Wayne Ganpat Studies on preparation and preservation of value-added kinnow-aonia ready to serve. Prof. B. Vickram, Mr. D.V. Persad, V. Bahadur.
4:00 – 4:15pm 4:15– 4:30pm	Studies on preparation and preservation of value-added kinnow-aonia ready
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4:15–4:30pm	Studies on preparation and preservation of value-added kinnow-aonia ready to serve. Prof. B. Vickram, Mr. D.V. Persad, V. Bahadur. Evaluation of decoction extracts of two types of sour-sop for annonaceous acetogenin. Dr. P. Bridgemohan and Mr. R.S.H. Bridgemohan. In-vitro evaluation of anti-microbial activity of crude extracts of <i>Pimentia</i>
4:15– 4:30pm 4:30 – 4:45pm	Studies on preparation and preservation of value-added kinnow-aonia ready to serve. Prof. B. Vickram, Mr. D.V. Persad, V. Bahadur. Evaluation of decoction extracts of two types of sour-sop for annonaceous acetogenin. Dr. P. Bridgemohan and Mr. R.S.H. Bridgemohan. In-vitro evaluation of anti-microbial activity of crude extracts of <i>Pimentia dioica</i> Mr. F. Boyd and Prof. N. Benkeblia. Evaluation of the quality of mangoes cv. Tommy Atkins stored at injury conditions after their transference to the environment using multi-variate

WEDNESDAY 3RD JULY 2013

ALL DAY FIELD TRIP DEPARTURE FROM HYATT HOTEL AT 9:00AM

FIELD TRIP #1: a. Bundoo's Farm (Production and harvesting)

- b. Trinidad and Tobago Agribusiness Association (TTABA) (Postproduction and Marketing)
- c. PCS Nitrogen Model Farm (Production, GAPS, Postproduction).

FIELD TRIP #2: a. Institute of Marine Affairs (Aquaculture, Coastal dynamics)

- b. Chaguaramas Agricultural Development Programme
- c. Botanical Gardens.

FIELD TRIP #3: Sugar Cane Feed Centre (Livestock Production, Biogas Technology, Composting).

THURSDAY 4TH JULY 2013

QUALITY MANAGEMENT OF VALUE-ADDED PRODUCTS Moderator: Dr. Musa Mohamed Regency Room #2

8:30-9:00am	Keynote address : Value-added products from tropical carbohydrate storage crops and its significance for food security in tropical countries. Dr. Lynda Wickham.
9:00–9:15am	Quality and HACCP-based compliance for primary processing of fine cocoa beans in Trinidad. Dr. R. Maharaj, Mr. M. Ramdawar and K. Kerr.
9:15–9:30am	Comparison between chocolate and an analog product from copoazu. Prof. Cucaita, Prof. R.H. Gutierrez and Prof. M.S. Hernandez.
10:00–10:15am	An assessment of the quality attributes of the Imperial College selections of cocoa lines. Dr. D. Sukha, Dr. D. M. Barath, Ms. N.A. Ali and Prof. P. Umaharan.
10:15-10:30am	A preliminary investigation of the effect of cocoa pulp on final flavor. Ms. N. Ali, Dr. G.S.H. Baccus-Taylor, Dr. D. Sukha, and Prof. P. Umaharan.

DISCUSSION COFFEE BREAK

QUALITY MANAGEMENT OF VALUE-ADDED PRODUCTS Moderator: Dr. Gaius Eudoxie

11:15-11:30am	The impact of processing location and growing environment on flavour in cocoa (<i>Theobroma cacao</i> L): Implications of "Terrior and Certification". Dr. D. Sukha and Prof. P. Umaharan.
11:30- 11:45am	Utilization of Amazon seje oil extracted by mechanical and manual methods. Prof. Castillo, Dr. M. Lares and Prof. M.S. Hernandez.
11:45-12:00pm	Asai (<i>Euterpe precatoria</i>) fruit: harvest and postharvest uses. Prof. M. S.Hernandez, Dr. M. Lares, Dr. M. Carillo, Dr. R.O. Diaz, Prof. R.H. Gutierrez and Dr. J.P. Fernandez-Trujillo.
12:00-12:15pm	Microwave extraction of anti-oxidant compounds from dry copoazu seeds. Prof. Herrera, Prof. R.H. Gutierrez and Prof. M.S. Hernandez.
12:15-12:30pm	Little – used and neglected species from the American tropics: value chain. Prof. M. S. Hernandez.
12:30-1:00pm	DISCUSSION
1:00-2:00pm	LUNCH
	METABOLOMICS AND NUTRACEUTICALS Moderator: Dr. Isaac Bekele
2:00–2:30pm	<i>Keynote address</i> : Metabolomics and postharvest science: Challenges and Perspectives. Prof. N. Benkeblia.
2:30–2:45pm	Fruit and vegetable juice blending for developing anti-oxidant rich, nutritious and thirst – quenching health drink. Prof. S. Mitra and Dr. H.O.Ramirez-Guerrero.
2:45-3:00pm	Evaluation of a powdered drink with anti-oxidant properties from asai fruit. Prof Castillo, Dr. M. Lares and M.S. Hernandez.
3:00 -3:30pm	DISCUSSION

3:30-4:00pm	COFFEE BREAK
	NUTRACEUTICALS Moderator: Dr. Govind Seepersad
4:00–4:15pm	Extra- Virgin oil: Physico-chemical parameters in deterioration. Dr. P. Bridgemohan .
4:15–4:30pm	The production of a spray-dried pineapple powder. Dr. S. Mujaffar and Ms. G. Ramtahal-Dhun.
4:30-4:45pm	Quality attributes of pumpkin powder via foam-mat drying. Dr. L. Harrynanan and Professor C. Sankat. University of the West Indies, Trinidad.
4:45-5:00pm	Export potential of Tamil Nadu mangoes to United Kingdom. Mr. A. Siddick and Dr. S. Ganesh.

5:00-5:15pm

5:15-5:30pm

7:00-11:00pm

DISCUSSION

CLOSING REMARKS

BANQUET AND AWARDS CEREMONY

POSTERS

Antifungal effect and quality evaluations on whole fresh papaya fruit treated with chitosan-based edible coatings. M. Hernandez-Lopez, L.L. Barrera-Necha, S. Bautista-Banos, M. Rufina-Diaz, D. Guillen- Sanchez.

Antioxidant capacity in microencapsulated dehydrated Amazonian fruits. M.S. Hernandez, J. E. C. Cardona, R. O. Diaz, M. Carillo, R.H. Gutierrez and J. P. Fernandez-Trujillo.

Consumer perception and willingness to pay for slow food. G. Seepersad, A. Iton and N. Felix.

Impact of physico-chemical quality attributes of breadnut fruit harvested at different stages of maturity on post-cooking quality. M. Mohammed

Quality changes in cocoa liqueur made from infused beans with or without spices and pulp. A. A. John, L.D. Wickham and M. Mohammed.

Compositional changes in breadnut fruit during ripening. M. Mohammed and L. D. Wickham.

Formulation and assessment of selective physico-chemical, microbiological, nutritional and sensory properties of three snack bars. S. A. Onfry, L. D Wickham, L. and M. Mohammed.