



**The University of the West Indies, St. Augustine,  
Cocoa Research Centre**

**Annual Cocoa Research Seminars**

**Wednesday April 10, 2013  
Room 2&3, Level 3, Critical Thinking Institute**



**Programme**

**Conservation**

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- 8:15 am Exploring the Health of the International Cocoa Genebank, Trinidad  
*Annelle Holder, Valmiki Singh and P. Umaharan*
- 8:30 am 'A Participatory Approach to Sustainable Management of Cocoa Genetic Resources'  
*Rena Kalloo Surendra Surujdeo-Maharaj and P. Umaharan*
- 8:45 am An Alternative Approach for Cocoa Establishment in the Genebank.  
*T.N. Sreenivasan*
- 9:00 am The Effect of Inbreeding on Populations of *Theobroma cacao* L.  
*Nicole Adimoolah*
- 9:15 am A Study of the Morphological and Molecular Diversity of Cacao in Uganda  
*Janielle Bacchus, Lambert A. Motilal and P. Umaharan*

**Characterisation**

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- 9:30 am The Quest to Find the Perfect Bean among Cacao Accessions at the International Cocoa Genebank, Trinidad  
*Frances L. Bekele, Gillian G. Bidaisee and Junior Bhola*
- 9:45 am New Insight into the Genetic Diversity of Cacao Revealed by Single Nucleotide Polymorphism (SNP) Markers: Consequences for Classification within Cacao.  
*Michel Boccara*
- 10:00 am Family Linkage & Redundancy in the ICG,T.  
*Lambert Motilal*

**Cocoa Break**

- 10:30 am An Update on the Characterisation of Cocoa Trinidad Virus (CTV)  
*Surendra Surujdeo-Maharaj and T.N. Sreenivasan*

## Evaluation

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- 10:45 am Development of a Standardized Screening Method to determine Genetic Resistance to Black Pod disease in *Theobroma cacao* L.  
Kadine David
- 11:00 am Genetic and Biochemical basis for Resistance to Witches' Broom disease in Cacao  
Romina Umaharan
- 11:15 am Anatomical and Biochemical Basis for Differences in Rooting Response in Cacao  
Ravi Moustache
- 11:30 am Understanding the Genetic Basis for Differential Uptake and Bioaccumulation of Cadmium in Cocoa  
Caleb Lewis
- 11:45 am A Genetic Study of Self-Incompatibility, Yield and Yield Components in Cocoa.  
Valmiki Singh
- 12:00 am General discussion

## LUNCH BREAK

## Utilisation

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- 1:15 pm The Effect of Cacao Pulp on Final Flavour  
Naailah A. Ali, Gail S.H. Baccus-Taylor, Darin A. Sukha & Path Umaharan
- 1:30 pm Varietal Effect on the Physico-Chemical Properties of Cacao pulp.  
Rena Kalloo
- 1:45 pm A Small-Scale Fermentation Method for Limited Pod Material.  
Gerard Fourny
- 2:00 pm Exploring Value Addition Opportunities in Trinidad & Tobago through the Formulation of Carbonated Cocoa Beverages  
Matthew Escalante, Neela Badrie & Frances Bekele

## Outreach

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- 2:15 pm An MSc Genetic Resource Management and Utilisation; a proposal  
Marissa Moses & Path Umaharan
- 2:30 pm CDE Project: Caribbean Fine Flavour Cocoa Industry Commercialisation  
Component 1- Farmer Field Schools  
Frances Bekele, Naailah A. Ali & Path Umaharan

2:45 pm CDE Project: Caribbean Fine Flavour Cocoa Industry Commercialisation  
Component-2: Quality Control and Food Safety of Caribbean Cocoa  
*Erna A. Amsterdam, Naailah A. Ali & Path Umaharan*

3.00 pm **GENERAL DISCUSSION**

**COCOA BREAK**