



UWI/AACCI Workshop
on
“Detection Methods for GMOs in the Food Chain”

**Institute of Critical Thinking (ICT), The University of the West Indies,
St. Augustine, Trinidad and Tobago**

10-13 February 2015

DAY 1: TUESDAY 10 FEBRUARY 2015

SESSION 1 OPENING SESSION

Chair: Dr. Michelle John, Regional Project Manager, Regional Biosafety Project

9:00 – 9:10 Welcome remarks

Professor Pathmanathan Umaharan, Head Cocoa Research
Centre/Technical Lead, Regional Biosafety Project

9:10 – 9:20 Welcome remarks

- Dr. Anne Bridges, Director of Technical Resources, AACC International (formerly American Association of Cereal Chemists, AACCI)
- Dr. Raymond Shillito, Bayer Research and Development Fellow

9:20 – 9:30 Introduction of facilitators and participants

SESSION 2 PRESENT STATUS, FUTURE OUTLOOKS

9:30 – 10:15 Cartagena Biosafety Framework (Cartagena Protocol on Biosafety - general overview - application process, risk assessment, decision making, decision implementation, biosafety clearing house)

Dr. Raymond Shillito, Bayer Research and Development Fellow

10:15 – 10:45 COFFEE BREAK

10:45 – 11:30 Global Status of GMO Crops Approved for Planting and Food and Feed

Dr. Clara Alarcon, Research Director, Analytical and Genomics
Technologies Department, Pioneer Hi Bred

11:30 – 12:00	Cartagena Biosafety Protocol in the Caribbean (seed and grain trade, overview of policy related to the biosafety and regulatory framework, regulatory implementation in Caribbean) Professor Pathmanathan Umaharan, Head Cocoa Research Centre/Technical Lead, Regional Biosafety Project
12:00 – 1:00	LUNCH
SESSION 3	SUPPLY CHAIN - TESTING OPTIONS AND MANAGEMENT
1:00 – 1:30	Supply Chain, Seed, Grain, Feed and Food – what we are testing? Dr. Anne Bridges, Director of Technical Resources, AACCI
1:30 – 2:00	It All Starts With Sampling Dr. Raymond Shillito, Bayer Research and Development Fellow
2:00 – 2:30	Sampling in the Field Mr. Doug Miller, Chief Executive Officer, Illinois Crop Improvement Association
2:30 – 3:00	COFFEE BREAK AND GROUP PHOTO
SESSION 4	MOLECULAR DETECTION METHODS
3:00 – 3:30	Developing GMO Detection Methods Dr. Raymond Shillito, Bayer Research and Development Fellow
3:30 – 4:00	Protein-based Detection Methods Dr. Clara Alarcon, Research Director, Analytical and Genomics Technologies Department, Pioneer Hi Bred
4:00 – 4:30	DNA-based Detection Methods Qualitative/Quantitative PCR Mr. Pearce Smith, Laboratory Manager, Eurofins GeneScan
4:30 – 4:45	Review of day Dr. Anne Bridges, Director of Technical Resources, AACCI and Dr. Raymond Shillito, Bayer Research and Development Fellow

END DAY 1

DAY 2: WEDNESDAY 11 FEBRUARY 2015

SESSION 5

SAMPLING

8:30 – 9:15

Design of Sampling Plans (including seed calculation)

Dr. Raymond Shillito, Bayer Research and Development Fellow

SESSION 6

CRITERIA FOR DETECTION METHODS

9:15 – 9:45

International Standards (ISO, etc.)

Mr. Doug Miller, Chief Executive Officer, Illinois Crop Improvement Association

9:45 – 10:15

Principles and Methods of Quantitation of GMO Content Using Real-time Quantitative PCR

Dr. Raymond Shillito, Bayer Research and Development Fellow

10:15 – 10:45

COFFEE BREAK

10:45 – 11:15

Performance Criteria, Validation, Reference Materials

Dr. Anne Bridges, Director of Technical Resources, AACCI

11:15 – 11:45

Design and Management of the GMO Testing Lab

Mr. Pearce Smith, Laboratory Manager, Eurofins GeneScan

11:45 – 12:15

Introduction to the Laboratory Session I

Dr. Clara Alarcon, Research Director, Analytical and Genomics Technologies Department, Pioneer Hi Bred

12:15 – 1:15

LUNCH

SESSION 7

LABORATORY MODULE I

1:15 – 5:30

Introductions: Overview, Safety and Logistics

All facilitators

END DAY 2

DAY 3: THURSDAY 12 FEBRUARY 2015

SESSION 8

IMPLEMENTATION OF THE REGULATORY FRAMEWORK

8:30 – 9:15

Role of Laboratory Testing in the Implementation of the Regulatory Framework

Dr. Raymond Shillito, Bayer Research and Development Fellow

SESSION 9	NEW TECHNOLOGIES
9:15 – 9:45	New Detection Technologies Dr. Clara Alarcon, Research Director, Analytical and Genomics Technologies Department, Pioneer Hi Bred
9:45 – 10:15	New Plant Breeding Technologies Dr. Raymond Shillito, Bayer Research and Development Fellow
10:15 – 10:45	COFFEE BREAK
SESSION 10	PRACTICAL APPLICATIONS
10:45 – 11:15	Selecting the Best Method for “The Situation” – the Rice Case (Case Study) Dr. Anne Bridges, Director of Technical Resources, AACCI
11:15 – 11:45	Challenges of “Unknowns” Mr. Pearce Smith, Laboratory Manager, Eurofins GeneScan
11:45 – 12:15	Proficiency Testing as a Quality Control Measure Dr. Raymond Shillito, Bayer Research and Development Fellow
12:15 – 1:15	LUNCH
SESSION 11	LABORATORY MODULE II
1:15 – 5:30	Introductions: Overview, Safety and Logistics All facilitators

END DAY 3

DAY 4: FRIDAY 13 FEBRUARY 2015

SESSION 12	REVIEW OF LABORATORY RESULTS
8:30 – 9:30	Group presentation of results (workshop participants)
9:30 – 10:15	Discussion of findings
10:15 – 10:45	COFFEE BREAK
SESSION 13	FUTURE PLANS
10:45 – 11:30	Panel Discussion: GMO detection, sources of methods, equipment sources, reference materials, laboratory networks, additional resources <ul style="list-style-type: none"> • Dr. Raymond Shillito, Bayer Research and Development Fellow • Dr. Clara Alarcon, Research Director, Analytical and Genomics

Technologies Department, Pioneer Hi Bred

- Mr. Pearce Smith, Laboratory Manager, Eurofins GeneScan
- Mr. Doug Miller, Chief Executive Officer, Illinois Crop Improvement Association

11.30 - 12:15 Presentation of Certificates
Workshop Feedback Survey

12:15 - 1:15 LUNCH

END DAY 4