

Meeting Report: Caribbean Regional IPM CRSP IT and Database Global Theme Organizational Meeting

Executive Summary: This global theme held a Caribbean regional organization meeting from October 30th to 31st in Kingston, Jamaica. Over fifty (50) participants attended the meeting (see the Participant List). The Honorable Mr. Roger Clarke, Minister of Agriculture and Lands, Jamaica, gave a welcoming speech. Mr. Albert Shand, the executive director, Rural Agricultural Development Authority (RADA), Jamaica, Mrs. Janet Lawrence from CARDI, and Mrs. Karen McDonald-Gayle from USAID, also gave greeting speeches. A total of thirteen speakers from the US and the Caribbean presented their topics in day one of the meeting (see the agenda). Day two focused on work planning, methodology, timelines, and budget development. The tasks and timelines were developed by the end of the session. Participants from the US and the region also developed planning for obtaining additional funding.

Purposes for the Meeting

- a. Sensitize participants on the global project and Jamaica's involvement in it.
- b. Finalize plans to develop web-based, interactive cartography for pest surveillance of endemic fruit flies in Jamaica.
- c. Explore possible collaboration on IAS database development between Jamaica and the global project.

Participants

- a. A total of 43 persons attended the meeting, among them
 - i. 3 from CARDI
 - ii. 29 from RADA, Ministry of Agriculture and Lands, University of the West Indies, and other governmental and non-governmental organizations from Jamaica and the region
 - iii. 4 from Penn State University
 - iv. 3 from North Carolina State University
 - v. 2 from USAID
 - vi. 2 from USDA/APHIS
- b. See Appendix I for details

Day One Presentations and Day Two Planning Session

- a. The Presentation Section were divided into three sessions:
 - i. Session 1: Definitions of Goals and Programs (US version of spelling)
 - ii. Session 2: Examples of capabilities and current, relevant software and infrastructure
 - iii. Session 3: Biological, ecological, sampling, and organizational issues for planned projects
- c. Planning sessions

- i. Clarifying goals and timelines for current projects
- ii. Planning fieldwork
- iii. Software planning
- d. See Appendix II for details

Day Two Touring and Evening Reception

Participants visited IT facilities at following institutions:

RADA

Ministry of Agriculture and Land:

Data Bank & Evaluation division

Land Information Council of Jamaica

Rural Physical Planning division

The Minister Clarke kindly hosted a reception for all participants Tuesday evening at which all participants could interact and become better acquainted in an informal setting

The Main Outcomes of the Meeting

- a. Agreement on the tasks and deadlines on our project “Interactive cartography of fruit flies in Caribbean systems” (see form below III and Appendix IV)
- b. Facilitated collaborations between this project and other relevant organizations and projects. For example, USDA/APHIS and USAID mission have shown the intentions to add appropriate resources to this effort, and RADA, the Ministry and Agriculture and Lands and CARDI will also allocate the necessary manpower and other resource to it.
- c. Enhanced understanding of this global theme project and other IPM CRSP projects among the stakeholders, host country collaborators, and the relevant institutions. For example, the Minister Clarke and other local officials have a good understanding about this project as well as other IPM CRSP efforts in the region. Local and regional organizations showed strong desire to collaborate with this project.



L-R: P. Chung, Minister Clarke, H. Spaulding



Appendix I: Partial List of the Participants

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Appendix II: Meeting Agenda

Planning Meeting on Information Technologies for IPM

2006 October 30 -31
Kingston, Jamaica



Day 1

OPENING

Chair: Phillip Chung

- 9:00 **Welcome, Purpose and Introductions**..... *Phillip Chung (RADA)*
- 9:15 **Greetings**
- *Hon. Roger Clarke, Minister (MAL)*
 - *Albert Shand (RADA)*
 - *Janet Lawrence (CARDI)*
 - *Diane Dormer (USAID)*

TECHNICAL SESSIONS

Chair: Janet Lawrence (CARDI)

SESSION I- Definitions of Goals and Programmes

- 9:30 Goal and current programmes of IPM CRSP IT programme..... *Yulu Xia (NCU)*
- 9:50 Goals and development for IT with APHIS.....
..... *Ron Stinner (NCU)*
- 10:00 Goals and current priorities of CIPMNet..... *Phillip Chung (RADA)*

BREAK

10:15-10:30

SESSION II- Examples of Capacities and Current, Relevant Software and Infrastructure

- 10:30 Pest watch and interactive cartography for IPM and

11:00 Current capacity of IPM CRSP IT and Global database theme..... *Yulu Xia and Ron Stinner (NCU)*

11:30 ***Jamaica's Plant Health IT Capacity***
- PHSAPRS¹.....*Fitzroy White*
- RADA.....*Hartnell Campbell*
- JEA.....*Ainsworth Riley*

LUNCH

12:30-1:30

1:30 Jamaica's GIS capability..... *Ian Wilmot-Brown (LICJ) Glynis Forde (RPP)*

SESSION III- Biological, Ecological, Sampling, and Organizational Issues for Planned Projects

2:00 Fruit fly surveillance in Jamaica & the Caribbean
..... *Phillip Chung (RADA)*

2:30 APHIS programmes with fruit flies... *Russell Duncan (APHIS)*

3:00 Jamaica's IAS programme... *Sean Townsend (NHM)*

3:30 Inter-agency programme link-
ages..... *Janet Lawrence (CARDI)*

ADJOURNMENT

4:00

Day 2

PLANNING SESSION

- 9:00 Clarifying goals and timelines for current projects.....*All*
- 9:30 Planning fieldwork.....*All*
- 10:00 Software planning.....*All*

BREAK

10:30-10:45

10:45 –12:00 **Breakout of Programmers for System Design**

10:45 Planning Budgets
Timelines: future trips for programmer for training and tech transfer

ADJOURNMENT

12:30

1:30 –3:30 Tour IT Facilities (RADA, MAL, LICJ and RPP)

Appendix III. Objective Statement for the IPM CRSP IT Subcontract: Interactive cartography of fruit flies in Caribbean systems

Statement of work:

Develop interactive cartography for use in monitoring fruit flies and support the transfer of the software. Build from web-mapping tools currently in place (see www.pestwatch.psu.edu, and www.cei.psu.edu/cei/projects/agriculture.html) that use Active Server Pages (ASP) applications for web-based data capture into MS Access relational databases. The data from the database is ported into MySQL, and a MacroMedia Flash application is used to visualize changes over time as animations, while individual dates can be seen as still frames with linked time-series graphics.

Adapt distance education modules to enable users of these interactive cartography tools. Modules will overview basics of the underlying technologies (GIS, web) and instruct those who act as data collectors.

Deploy McPhail traps in Jamaica, and have data from those traps mapped on a regular basis.

Embed maps of fruit fly trap-catches (the MacroMedia Flash application) within webpages that help with species identification and management of soft fruits developed by RADA Jamaica.

Coordinate with the Caribbean Area Safeguarding Officer, USDA APHIS, and CIPMNet regional network coordinator to help develop the program relative to others working with fruit flies in the regions.

Coordinate this interactive cartography with efforts related to detection of invasive species in the region.

Anticipated timelines for approximately the next year:

Fall 2006 : Coordination meeting among those involved with software development for invasive species and those involved with interactive cartography of endemic fruit flies.

Fall 2006 to Spring 2007: System design meeting. Travel by Penn State software designers from the Center for Environmental Informatics (<http://www.cei.psu.edu/>) to RADA Jamaica. Determine hardware and software system criteria that will be used to host whatever software is developed, and thus facilitate technology transfer of the software. Draft software design elements for both interactive cartography and web pages within which that will be housed.

Fall 2006 to Spring 2007: System prototype development. Interactive cartography development by Penn State, and webpage development about fruit flies by RADA Jamaica.

Spring 2007: Technology transfer. Transfer of operational interactive cartography software to servers within RADA Jamaica. Embedding of the MacroMedia Application, and data capture software (ASP application), within the RADA-developed web pages.

Spring 2007 – Spring 2008: deployment of McPhail traps, and population of interactive cartography webpages, resulting in maps of fruit flies, by RADA Jamaica.

Summer 2008 – program evaluation.