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Horticulture Innovation Lab

2015 Annual Meeting Conference June 8-10 in Lusaka, Zambia

Welcome

On behalf of the management team of the Horticulture Innovation Lab, I would like to welcome you to our fifth annual meeting. We look forward to engaging with you to exchange information that promotes the use of horticulture to improve the livelihoods of smallholder farmers in Southern Africa and around the world.

This is our program's first meeting after receiving a positive evaluation and approval for five more years' worth of funding from the U.S. Agency for International Development. We believe this decision not only validates the work we have done through the Horticulture Innovation Lab thus far, but recognizes the pivotal role that fruits and vegetables play in people's lives—both in improving health and increasing rural incomes. We appreciate the important role that many of you have played in the success of the Horticulture Innovation Lab.

Over the past year, we have launched several new projects, with a focus on nutrition-sensitive horticulture, gender equity, postharvest losses, and scaling innovations. Additional projects will be developed in the coming years. As always, collaboration is key to programs like ours. Research collaborations between U.S. universities and institutions in developing countries increase opportunities for capacity building, while improving horticultural practices in the developing world. Thank you for joining us at this meeting. We look forward to continued collaboration with you.

- Elizabeth Mitcham, Director



HORTICULTURE INNOVATION LAB













Participating Projects

In Latin America

Gender equity: Honduras

Janelle Larson of the Pennsylvania State University, leads a project focused on empowering women through horticulture called, "Women in Agriculture Network: Honduras."

Vegetable grafting: Honduras and Guatemala

James Nienhuis of the University of Wisconsin-Madison, leads a spin-off project that will expand tomato grafting for entrepreneurs called, "Plántulas de Esperanza."

Regional Center at Zamorano: Honduras

Julio Lopez of the Panamerican Agricultural School, Zamorano, directs this regional center, which is also called "El Centro Regional de Innovación para las Hortalizas y Frutas en Zamorano."

In Africa

Nutrition: Zambia and Kenya

James Simon of Rutgers, The State University of New Jersey, leads a nutrition-sensitive horticulture project called, "Improving Income and Nutrition of Smallholder Farmers in Eastern Africa using a Market Driven Approach to Enhance Value Chain Production of African Indigenous Vegetables."

Irrigation: Uganda

Kate Scow of the University of California, Davis, leads a spin-off project focused on small-scale irrigation solutions, "Innovations in Dry Season Horticulture for Women and Smallholders in East Africa."

In Asia

Conservation agriculture: Cambodia and Nepal

Manny Reyes of North Carolina Agricultural and Technical State University, leads a spin-off project that promotes conservation agriculture and drip irrigation, "Incentives and Markets for Vegetable Smallholders to Practice Water and Labor Saving Technologies."

Potato storage: Bangladesh

Michael Reid, Horticulture Innovation Lab, UC Davis, leads an associate award called, "Innovative potato storage for smallholder farmers in Bangladesh."

Regional Center at Kasetsart University: Thailand

Poonpipope Kasemsap of Kasetsart University directs this regional center, with responsibilities in Bangladesh, Nepal and Cambodia.

Please note: Additional projects are currently in various stages of discussion, development and funding. These are the projects primarily represented at this meeting. This list was updated May 2015, and will be updated in the future.

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Workday - Monday, June 8

0.00	Description bearing
8:00 a.m.	Registration begins
9:00 a.m.	Welcome Group introductions and overview of the day.
	Horticulture Innovation Lab directions: Broad goals of the program's new phase Beth Mitcham, Director, Horticulture Innovation Lab, UC Davis
	Recent changes at USAID: What's new and relevant? John Bowman, AOR for the Horticulture Innovation Lab, Bureau for Food Security, USAID
10:00 a.m.	Group photo Followed by tea and coffee break
11:00 a.m.	Meet the projects, bus stop round #1 At each stop, a host presents what they are doing and receives questions. Travelers take note of "what I'd like to know" and "what I could offer" on worksheet, for each stop. Each session lasts 10 minutes. Output: Knowledge of projects and project members. Identify possible areas of interest and who might have information to help.
	Conservation agriculture in Cambodia and Nepal
	Vegetable grafting in Honduras and Guatemala
	Regional Center at Zamorano in Honduras
	Nutrition in Zambia and Kenya
12:00 p.m.	Lunch
1:00 p.m.	Meet the projects, bus stop round #2
	• Irrigation in Uganda
	Gender equity in Honduras
	Regional Center at Kasetsart University in Thailand
	Potato storage in Bangladesh
2:00 p.m.	Gender workshop: Simple tools and opportunities to incorporate gender issues into projects. Janelle Larson and Leif Jensen, Penn State; Arie Sanders, Panamerican Agricultural School, Zamorano
3:00 p.m.	IPM Innovation Lab presentation: What can we offer each other? Rangaswamy (Muni) Muniappan, Director, IPM Innovation Lab, Virginia Tech
3:30 p.m.	Coffee break
4:00 p.m.	Seeking synergies Break into groups. Use lessons learned from the bus stop sessions and your worksheet notes to guide you. Identify potential synergies in terms of content, activities and approaches. Think about: training, materials, partners, sharing networks, joint visits, major issues and how to improve efficiencies. Output: Each group will share in plenary 1-2 specific areas of potential synergy.
4:45 p.m.	Wrap-up and closing
7:00 p.m.	Conference Dinner
Tuesday	

Tuesday 7:00 a.m.

P.I.s - Meet tomorrow morning for mandatory, PI-only breakfast meeting with Amanda Crump.











Horticultural Innovation Lab in Southern Africa

W ith funds from the U.S. Agency for International Development, the Horticulture Innovation Lab has supported more than \$2 million in horticultural research projects that affect smallholder farmers in countries in Southern Africa. Projects in this region account for approximately 16 percent of the Horticulture Innovation Lab's total portfolio. Projects have included:

Improving horticultural production:

• Establishing GIS data for horticultural production in Malawi

Postharvest practices:

• Improving postharvest practices with local market support in Zambia

Agricultural marketing and market access:

- Strengthening the value chain for African indigenous vegetables in Zambia
- Improving vegetable quality through a collaboration with local tourist hotels in Zambia
- Evaluating support for smallholder production of paprika and tomatoes in Zimbabwe

Enabling environment and policy:

 Integrating Rooibos tea farmers with fair-trade markets in South Africa

Nutrition:

Improving nutrition with African indigenous vegetables in Zambia

Partners in Southern Africa

- Agribusiness in Sustainable Natural African Plant Products, Ghana, South Africa and Zambia
- International Relief and Development, Zimbabwe
- Sandra Kruger and Associates, South Africa
- Stellenbosch University, South Africa
- University of the Western Cape, South Africa
- World Relief, Malawi



In Malawi, agents from the Bvumbwe Agricultural Research Station worked with Mark Lundy, then a UC Davis graduate student, on a Horticulture Innovation Lab Trellis Fund project that introduced modern cultivars and practices to smallholder tomato growers.



Using a markets-first approach, vegetable farmers in Zambia expanded their businesses into nursery production that generated nearly \$170,000 in its first year and impacted 135 farmers.

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Conference - Tuesday, June 9

9:00 a.m.	Registration
9:30 a.m.	Horticulture in Zambia
	Welcome and Introductions
	Horticulture Innovation Lab Activities in Southern Africa: Why horticultural research is important for international development Elizabeth Mitcham, Director, Horticulture Innovation Lab, UC Davis
	USAID programs in Zambia Olive Kaluwa, USAID/Zambia
	Importance of Innovation for Agricultural Transformation: Implications for the horticultural sector in Zambia Samuel Bwalya, United Nations Development Programme
10:35 a.m.	Break
11:00 a.m.	Workshop: A New Model for Extension "Farm Business Advisors: Comprehensive Extension Services to Enhance Productivity and Improve Resiliency" Melanie Wilkinson and Kenneth Chelemu, International Development Enterprises (iDE)
12:30 p.m.	Lunch
1:30 p.m.	Panel: Future Opportunities in Horticulture Guest speakers will discuss innovative business models and opportunities for smallholders to grow their businesses in Zambia.
3:00 p.m.	Horticulture Expo: Innovation and entrepreneurship in Zambia Reception with snacks. Room TBA Representatives have been invited to share information about their work, from individual booths. • local food companies • NGOs • ag suppliers
4:30 p.m.	End



Tour - Wednesday, June 10

8:00 a.m. **Tour departure**

Objective: Participants will visit a variety of entrepreneurial enterprises in Zambia's horticultural sector, including a farm, a small-scale processor, and a network of start-up businesses.

Groups will depart from hotel on separate buses for tours. Each group will rotate through all three stops, but in a different order.

Boxed lunches will be provided.

- Stop A: Agri-business incubator
 The Agribusiness Incubation Trust (AgBIT) is a public-private partnership that aims to accelerate innovation and support the growth of start-up businesses in agriculture. Many of their current start-up businesses are related to the horticulture sector, from seed production to fruit and vegetable processing.
- Stop B: Small-scale processing and packaging operation
 Sylva Foods is a food-processing business that works with local farmers to procure and dry a variety of African indigenous vegetables, which the company packages and sells to supermarkets.
- Stop C: Farm growing horticultural crops
 Lilayi Cooperative is a farming cooperative with approximately 50 members. The farm grows African indigenous vegetables, sweet potatoes, and cabbage using greenhouses and rainwater harvesting. This farm works with USAID's Commercial Agribusiness for Sustainable Horticulture (CASH) project.

4:00 p.m. Estimated return to the hotel

Participants

Moses Banda
The University of Zambia, School of
Agriculture
moses.banda@unza.zm

David Byrnes Rutgers University rohanbyrnes@gmail.com

Emily Burrows Catholic Relief Services emily.burrows@crs.org

Samuel Bwalya UNDP Ethiopia samuel.bwalya@undp.org

Kenneth Chali ASNAPP-Zambia kenneth@asnapp.org

Kenneth Chelemu Technical Director, iDE kchekemu@ideorg.org

Mukwemba Habeenzu Agribusiness Incubation Trust (AgBIT) mukwemba@agbit.co.zm

Lyda Hok Royal University of Agriculture, Cambodia hoklyda@rua.edu.kh

Leif Jensen Penn State University lij1@psu.edu

Carl Jensen Zasaka cjensen208@gmail.com

Guy Kahokola USADF guykahokola1@yahoo.com

Olive Kaluwa USAID/Zambia nkaluwa@usaid.gov

Poon Kasemsap Kasetsart University, Thailand agrppk@ku.ac.th

Tiuzeyani Khondiwa Concern Worldwide tiuzeyani.khondiwa@concern.net

Janelle Larson Penn State University Jbl6@psu.edu

From the International Advisory Board

Josette Lewis, chair World Food Center, UC Davis jolewis@ucdavis.edu

Walter Bowen University of Florida wbowen@ufl.edu

Dyno Keatinge AVRDC - The World Vegetable Center dyno.keatinge@worldveg.org

Julio López University of Zamorano jlopez@zamorano.edu

Robert Nanes Independent consultant bobnanes@gmail.com

Robert Paull University of Hawai'i at Mānoa paull@hawaii.edu Idah Sithole-Niang University of Zimbabwe isniangzw@yahoo.com

Sally Smith
The University of Adelaide, Australia sally.smith@adelaide.edu.au

Detlef Virchow Global Horticulture Initiative dvirchow@globalhort.org

L. George Wilson North Carolina State University george_wilson@ncsu.edu

John Bowman (ex-officio) USAID jobowman@usaid.gov

Dale Lewis COMACO dlewis@itswild.org

Peter Manda Nutri-Aid Trust peterjmanda@nat.org

Muunga Mapenzi ASNAPP muunga@asnapp.org

Carol Mfune COMACO carolwezi@gmail.com

Bernard Moonga University of Zambia, Dept of Food Science & Technology himoongam@yahoo.com

Amrita Mukherjee UC Davis, Bangladesh amukherjee@ucdavis.edu

Joe Munalula Syngenta joe.munalula@syngenta.com Muni Muniappan IPM Innovation Lab rmuni@vt.edu

Brian Mwanamambo AgBIT brian@agbit.co.zm

Precious Nanja Agribusiness in Sustainable Natural African Plant Products (ASNAPP) precious@asnapp.org

Jim Nienhuis University of Wisconsin nienhuis@wisc.edu

Mandla Nkomo TechnoServe Zambia Mnkomo@tns.org

Evaristo Nyeleti ASNAPP evaristo@asnapp.org

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Participants

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Nyabinda Naman Academic Model Providing Access to Healthcare (AMPATH) nyabindex@gmail.com

Alex Pavlovic
ACDI/VOCA PROFIT +
apavlovic@acdivoca.org

Donald Phiri Peace Corps dphiri@peacecorps.gov

John Powers COMACO jpower@itswild.org

Manny Reyes North Carolina A&T State University reyes@ag.ncat.edu

Lupiya Sakala ASNAPP sakala@asnapp.org

John Shindano University of Zambia, Dept of Food Science & Nutrition jshinda@yahoo.co.uk Sunday Silungwe Zasaka sundaysilungwe@yahoo.com

Clara Sinyinda ASNAPP clara@asnapp.org

Arie Sanders Zamorano University asanders@zamorano.edu

Jate Sathornkich Kasetsart University, Department of Horticulture jate.sat@gmail.com

Kate Scow University of California, Davis kmscow@ucdavis.edu

Jim Simon Rutgers University jesimon 123@gmail.com

Lumba Siyanga Women for Change lusiyanga@hotmail.com Mark Stokes MRi/Syngenta mark.stokes@syngenta.com

Emil van Wyk ASNAPP emil@asnapp.org

Carl Wahl
Concern Worldwide
carl.wahl@concern.net

Catherine Wandera Busitema University cathywandera@yahoo.com

Steve Weller Purdue University weller@purdue.edu

Melanie Wilkinson IDE Zambia mwilkinson@ide.org

From the Horticulture Innovation Lab management team



Elizabeth Mitcham Director ejmitcham@ucdavis.edu



Mark Bell ICT leader mark.andrew.bell@gmail.com



Diana Puccetti Event planner djpuccetti@ucdavis.edu



Amanda Crump Associate director acrump@ucdavis.edu



Michael Reid Technology leader msreid@ucdavis.edu



Brenda Dawson Communications bldawson@ucdavis.edu



Jim Hill Associate dean jehill@ucdavis.edu



Britta Lilley Hansen Program officer bhansen@ucdavis.edu



Paul Marcotte Evaluator plmarcotte@ucdavis.edu

Thank you for attending!

For presentations, photos, and other information from this meeting, visit: http://horticulture.ucdavis.edu/2015



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