

# **Colorful Harvest:** From Feeding to Nourishing a Growing World

HORTICULTURE RESEARCH FOR DEVELOPMENT CONFERENCE MARCH 26–27, 2019 • WASHINGTON, D.C. • #HORT4DEV

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This conference represents the nexus of thought leaders within horticulture for development, gathered together for an outcome-driven conversation to advance global goals in nutrition and economic security.

A growing body of research shows the importance of diversified diets for a healthy population. In the face of widespread malnutrition and climate change, now is the time to examine the impactful role horticulture, across the value chain, has in benefiting the lives of smallholder farmers globally.

In the next two days, we will focus on broadening conversations surrounding horticulture and building partnerships to leverage a new future in horticulture for development — one that recognizes the challenges and opportunities in fruits and vegetables, and commits to a vision that truly nourishes a healthy, productive society.



HORTICULTURE





 7:30 - 8:30 a.m.
 Registration

 8:30 a.m.
 Welcome and Introduction

 Elizabeth Mitcham, Director of the Feed the Future Innovation Lab for Horticulture

9:00 a.m. Keynote – Why Horticulture? Why Now?

Emmy Simmons, Senior Adviser of the Global Food Security Project at the Center for Strategic and International Studies

#### 9:30 a.m. Keynote Dialogue – Seizing Opportunities in Horticulture for Development

Robert Bertram, Chief Scientist at USAID's Bureau for Food Security

Elizabeth Mitcham, Director of the Horticulture Innovation Lab

Marco Wopereis, Director General of the World Vegetable Center

Emmy Simmons, Senior Adviser at the Center for Strategic and International Studies

#### 10:30 a.m. Networking Break

11:00 a.m.Working Along the Horticulture Value Chain for Women's Economic EmpowermentModerated by Jan Middendorf, Associate Director for the Sustainable Intensification<br/>Innovation Lab at Kansas State University<br/>Amanda Crump, Teaching Professor at University of California, Davis

Janelle Larson, Associate Professor at Penn State University

Sarah Sahlaney, Director of Social and Behavior Change and Gender for ACDI/VOCA

12:00 - 1:00 p.m. Lunch

12:30 p.m.Spotlight – Growing the Trellis Fund from the Ground Up

Peter Shapland, Independent consultant and Trellis Fund founder

Lauren Howe, UC Davis graduate student and Trellis Fund manager

Conference materials will be made available at <u>https://horticulture.ucdavis.edu/event/hort4dev</u>. Follow conference discussions and share your insights with <u>#Hort4Dev</u> on Twitter.

This event is made possible by the generous support of the American people through USAID. The contents are the responsibility of the Horticulture Innovation Lab and do not necessarily reflect the views of USAID or the United States Government.

1:00 p.m.	Targeting Youth Livelihoods in Horticulture
	Moderated by John Bowman, Senior Agricultural Advisor at USAID's Bureau for Food Security
	Macani Toungara, Director of Program Development at TechnoServe
	Mamadou Thiam, Chief of Party for the Horticulture Training and Services Center in Guinea for the Horticulture Innovation Lab
	Lisa Lauxman, National Program Leader for USDA NIFA Center for International Programs
2:00 p.m.	Innovations and Challenges in Water Management for Nutrient-Dense Foods
	Moderated by Michael Tiboris, Global Water Fellow of the Chicago Council
	Thomas Gerik, AgriLife Center Director and Professor for the Innovation Lab for Small Scale Irrigation at Texas A&M University
	Debora Rivera, Chief of Party for MásRiego project for the Horticulture Innovation Lab
	Abraham Salomon, Project Manager for Farmer-Led Irrigation Solutions in Uganda for UC Davis
3:15 p.m.	Poster Session and Networking Break
	Poster gallery with the latest horticulture for development research, presented by the Horticulture Innovation Lab's global network. See current research projects on p. 4.
4:00 p.m.	Leveraging Nutrition Impacts from Horticulture Research
	Rafael Flor, Director of YieldWise at The Rockefeller Foundation
	Shibani Ghosh, Research Associate Professor for the Nutrition Innovation Lab at Tufts University
	Jim Simon, Professor at Rutgers, the State University of New Jersey
	Valerie Davis, Senior Technical Advisor at Catholic Relief Services
5:00 p.m.	Keynote – Making the Case: Pushing Policy for a Diverse Global Plate
	Kimberly Flowers, Director of the Humanitarian Agenda and Global Food Security Project at the Center for Strategic and International Studies
5:30 - 7:00 p.m.	Networking Reception
7:00 - 8:30 p.m.	Trellis Fund Evening Breakout Session
Hamilton Room	Building Scientific and Organizational Capacity by Engaging Local Partners and Young Scientists
	<ul> <li>5-minute presentations from a panel of in-country organizations and U.S. students who have participated in Trellis Fund projects</li> </ul>
	Interactive discussion about lessons learned from these collaborations     and ways to better build upon similar experiences in the future

# Fruit and vegetable research projects target poverty and malnutrition

### Collaborating across borders to strengthen horticultural value chains

The Horticulture Innovation Lab has collaborated with more than 200 organizations and universities on research projects that improve the horticultural value chain for smallholder farmers around the world.

. .

Project collaborators include partners from U.S. universities and organizations in emerging economies in Africa, Asia or Latin America, as part of the U.S. government's Feed the Future initiative.

In the program's first 9 years, research teams also trained more than 50,000 individuals, including 18,000 farmers who improved how they grow, process or sell horticultural crops — by adopting new practices or technologies.

Establishing a horticulture center in Guinea

Led by the Horticulture Innovation Lab with the

Agriculture Research Institute of Guinea (IRAG)

**Burkina Faso** 

and ACDI/VOCA

Improving postharvest

Led by Gurbinder Gill of

Agribusiness Associates with

the Environmental Institute for

Agricultural Research (INERA)

practices for tomatoes in

#### **Empowering women through horticulture in Honduras** Led by Janelle Larson of Penn State University with the Panamerican Agricultural School, Zamorano

#### Promoting drip irrigation and climate resilience in Guatemala (MásRiego)

Led by the Horticulture Innovation Lab with the Centro de Paz Bárbara Ford and EAP Zamorano

#### Expanding tomato grafting for entrepreneurship in **Guatemala and Honduras**

Led by James Nienhuis of University of Wisconsin-Madison with Catholic Relief Services and EAP Zamorano

#### Managing nematodes and soil health in Guatemala Led by Brent Sipes of the University of Hawai'i at Manoa with Universidad de San Carlos de Guatemala

#### Horticulture Innovation Lab Regional Center at Zamorano in Honduras

Led by Julio López Montes of the Panamerican Agricultural School, Zamorano

#### **Designing for horticulture development with D-Labs** in Honduras and Thailand

Led by Kurt Kornbluth of UC Davis with Kasetsart University and EAP Zamorano

#### **Examining nutrition impacts** of horticultural innovations in **Bangladesh**

Led by Tufts University with World Fish Bangladesh and Bangladesh Agricultural University **Promoting conservation** agriculture for vegetable growers in Cambodia and Nepal Led by Manuel Reves of Kansas State University with the Royal University of Agriculture

#### Improving practices for dried apricots in Tajikistan

Led by Ariana Torres of Purdue University with Tajik Agrarian University

**Developing farmer-led** irrigation solutions in Uganda

Led by Kate Scow of UC Davis with Teso Women's Development Initiative

Improving nutrition with African

indigenous vegetables in Kenya

Led by James Simon of Rutgers,

with the University of Eldoret, the World Vegetable Center, and Hantambo Women's Group

the State University of New Jersey.

and Zambia

Led by Gurbinder Gill of Agribusiness Associates with the Rwanda Ministry of Agriculture and Natural Resources, National Agriculture Export Board, University of Rwanda, and the Rwanda Agriculture Board

## nets in Kenya

Led by Vance Baird of Michigan State University with the Center for International Cooperation in Agronomic Research for Development (CIRAD)

#### **Building postharvest** capacity in Tanzania Led by Eleni Pliakoni of Kansas State University with Sokoine University of Agriculture



Scaling up seed-drying technologies in Bangladesh Led by Johan Van Asbrouck of Rhino Research

#### **Building safe** vegetable value chains in Cambodia

Led by Karen LeGrand of UC Davis with the Royal University of Agriculture and the University of Battambang

#### **Reducing postharvest losses in Rwanda**

#### Assesing feasability of pest-exclusion

Investigating integrated vegetable-livestock systems in Cambodia Led by Jessie Vipham of Kansas State University with the Royal University of Agriculture and the University of Battambang

Horticulture Innovation Lab Regional Center at **Kasetsart University in Thailand** Led by Poonpipope Kasemsap of Kasetsart University



8:30 a.m.	Welcome
	Erin McGuire, Associate Director of the Horticulture Innovation Lab
8:40 a.m.	Keynote – Harvesting Opportunity from Farm to Market
	Bonnie McClafferty, Director of Food Systems for the USAID Advancing Nutrition project
9:00 a.m.	Proven Postharvest Strategies: Reducing Food Loss and Powering Economic Growth
	Moderated by Amanda Brondy, Director of International Projects for the World Food Logistics Organization
	Rashmi Ekka, Project Manager of Postharvest Programs for Agribusiness Associates
	Rachael Cox, CEO and Co-Founder of EarthEmpower
10:00 a.m.	Flash Talks – Horticulture Technologies Poised for Uptake
	<ul> <li>Nethouses for pest management Karen LeGrand, Principal Investigator at UC Davis and Adjunct Professor at the Royal University of Agriculture in Cambodia</li> </ul>
	<ul> <li>DryCard for dry chain management Anthony Phan, Project Analyst for the Horticulture Innovation Lab at UC Davis</li> </ul>
	<ul> <li>Trichoderma for soil health Rangaswamy Muniappan, Director of the IPM Innovation Lab at Virginia Tech</li> </ul>
	<ul> <li>Multi-channel farmer extension and digital knowledge base platform Gina Assaf, Digital Design Lead for Souktel</li> </ul>
10:30 a.m.	Networking Break, sponsored by the 🛞 World Vegetable Center
11:00 a.m.	Moving Research Success to Scale
	Moderated by Julie Howard, Senior Adviser (Non-resident) at the Center for Strategic and International Studies
	Nora Lapitan, Research Division Chief for USAID's Bureau for Food Security
	Anna-Marie Ball, Chief of Staff and Director of External Affairs for HarvestPlus at the International Food Policy Research Institute
	Julia DeGennaro, Sales and Marketing Manager at Store It Cold, LLC

12:15 – 1:15 p.m.	Lunch
12:45 – 1:00 p.m.	Keynote – How Academia Can Better Nourish the Future
	Jeff Lansdale, President of the Panamerican Agricultural School, Zamorano
1:15 p.m.	Meeting Tomorrow's Horticulture Needs through University Engagement
	Moderated by Rose Koenig, Interim Director of the University of Florida Institute of Food and Agricultural Sciences Global offices
	Betty Bugusu, Technical Director of LASER PULSE (Long-term Assistance and Services for Research, Partners for University-Led Solutions Engine) at Purdue University
	Julio López Montes, Professor and Director of the Horticulture Innovation Lab Regional Center at Zamorano University
	Ramadhani Majubwa, Professor at Sokoine University of Agriculture
2:15 p.m.	Doing Business with Feed the Future Innovation Labs
	Moderated by Peter Saling, Associate Director of Agriculture and Volunteer Programs for Winrock International
	Jan Middendorf, Associate Director for the Sustainable Intensification Innovation Lab
	Erin McGuire, Associate Director for the Horticulture Innovation Lab
	Shibani Ghosh, Associate Director for the Nutrition Innovation Lab
3:00 p.m.	Networking Break, Technology Fair and Trellis Fund Poster Gallery
	Flash talk technology fair. Poster gallery from Trellis Fund Summit participants, including impacts of Trellis Fund micro-grants. See more information about the Trellis Fund on p. 11.
3:30 p.m.	World Café – Identifying Key Areas for Investment and Partnership in Horticulture for Development
	Facilitated by Jessie Vipham, Assistant Professor at Kansas State University and Detlef Virchow, Head of Programming at Plan International Germany
	Divide into groups by topic to find opportunities for future collaborations.
4:30	Funding Innovations in Horticulture
	Moderated by Robert Bertram, Chief Scientist at USAID's Bureau for Food Security
	Elisa Burrows, Portfolio Manager for Feed the Future Partnering for Innovation at Fintrac
	Sheila Assibey Yeboa, Project Manager for HortiFresh SNV
5:45 p.m.	Closing Keynote – From Feeding to Nourishing a Growing World
	Elizabeth Mitcham, Director of the Horticulture Innovation Lab

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## Horticulture Innovation Lab: Trellis Fund Engaging U.S. graduate students in international development

The Horticulture Innovation Lab's Trellis Fund connects organizations in developing countries with U.S. graduate students who have agricultural expertise, generating benefits for both the students and the in-country institutions. Together, they collaborate on short-term projects to address horticultural challenges faced by local farmers.

Started in 2011 by UC Davis graduate students, the Trellis Fund endeavored to support local in-country organizations that are already well connected to smallholder farmers, while also providing international experience to tomorrow's agricultural researchers. Organizations apply for a small horticulture-focused grant, and each grant awardee is matched to a knowledgeable graduate student who serves as a consultant on the project.

## 12,675 participants trained

including 65 percent women. Trellis Fund projects support smallholder farmers with new knowledge on topics from soil health to postharvest processing. In addition to supporting more than 375 extension meetings, Trellis outreach has also established more than 260 demonstration plots.

# 60 in-country organizations

supported in 17 countries with Trellis Fund grants. Small grant awards of \$2,000 - \$4,000 lead to big impact, with a total of \$182,000 invested. Organizations can build off each activity and receive multiple Trellis Fund grants over time.

# **76** students applying lessons globally

from the Horticulture Innovation Lab's partner institutions – including North Carolina State University, University of Hawai'i at Mānoa, University of Florida, UC Davis and Cornell University. Student alumni have continued into careers in domestic agricultural research, agricultural extension, and international agricultural development.

## **Trellis Fund Summit this week**

HORTICULTURE

INNOVATION LAB

This week the Horticulture Innovation Lab is hosting more than 30 alumni of the Trellis Fund program – both students and grant awardees — from 10 countries for the Trellis Fund Summit. Part of an ongoing commitment to adaptive management, the Trellis Fund Summit will reflect on program success, lessons learned, and ideas for the future. Trellis Fund Summit participants are also attending the "Colorful Harvest" conference, and will finish their week with a workshop focused on fundraising and grant writing, followed by a local farm visit.

**Learn more about the Trellis Fund model:** An evening breakout session will focus on "Building scientific and organizational capacity by engaging local partners and young scientists," with 5-minute talks and interactive discussions about lessons learned. Join at 7 p.m. on Tuesday, March 26, in the Hamilton Room. See p. 3 for details.

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http://horticulture.ucdavis.edu/trellis

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HORTICULTURE RESEARCH FOR DEVELOPMENT CONFERENCE

UNIVERSITY of HAWAI'I\*

MĀNOA

## **Partner with the Horticulture Innovation Lab**

The Feed the Future Innovation Lab for Horticulture advances fruit and vegetable innovations, empowering smallholder farmers to earn more income while better nourishing their communities. Horticulture solutions can reduce women's labor, reduce waste between the farm and the market, and increase the availability of highly nutritious fruits and vegetables at markets.

**Regional centers for horticulture production and postharvest training:** Educating in-country professionals in postharvest practices and horticulture technologies. We partner with national universities and agricultural leaders to build hubs for horticultural education and research.

Value chain analysis: Investigating new opportunities for partnerships and efficiency by understanding relationships between stakeholders in the value chain and their context.

Technology innovation: Exploring new ideas and concepts in improving productivity, food quality, or postharvest practices.



More information at https://horticulture.ucdavis.edu.

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