



**Water for Food**  
DAUGHERTY GLOBAL INSTITUTE  
*at the University of Nebraska*



**WORLD BANK GROUP**  
Water



Georgina Smith CIAT

January 29 - 30, 2018

# **WATER FOR FOOD INTERNATIONAL FORUM**

**FARMER-LED IRRIGATED AGRICULTURE: SEEDS OF OPPORTUNITY**

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# Water for Food International Forum

Farmer-led Irrigated Agriculture: Seeds of opportunity



**January 29 and 30, 2018**  
**The World Bank**  
**Preston Auditorium**  
**Washington, D.C. USA**

Smallholder agriculture is the predominant form of farming in much of the developing world, yet production falls far short of potential due to a lack of access and rights to water for irrigation, flexible financing, technology, linkages to markets, and the capacity to manage production.

Irrigation in agriculture has tremendous potential to increase crop yields, support crop and livestock value chains, reduce poverty and improve health in rural sub-Saharan Africa and parts of Asia. This forum will focus on improving water and food security, and livelihoods for smallholder farmers in developing countries by intensifying and expanding sustainable irrigated agriculture. Presenters and participants will explore the investments needed and the necessary enabling environment for enhanced agricultural production, including strong partnerships, linkages to markets support, capacity and technical training, and the role of the private and public sectors.

The event convenes national and international government organizations, academic institutions, NGOs, and private sector partners to share mutual challenges and innovative solutions to achieving sustainable water and food security.

Through case study examples, presentations on new technology and panels featuring some of the world's leading experts in this complex challenge, we aim to catalyze new partnerships and projects that will advance sustainable investments in smallholder irrigated agriculture in the developing world. Outputs from the event will include a collaborative summary report and commitment to support and advance further work to improve access to irrigation in developing countries. In addition, the forum outcomes will contribute to the high-level panel on water for food at the 2018 World Water Forum in Brasilia, Brazil, in March.

## Produced by:

The Robert B. Daugherty  
Water for Food Global  
Institute and the World  
Bank, in partnership  
with U.S. Department  
of Agriculture and U.S.  
Agency for International  
Development

# Conference Schedule

## Monday | January 29

**8:00 – 9:00 a.m. Check-in and registration, continental breakfast**

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**9:00 – 9:30 a.m. Forum Facilitator: Femi Oke, Journalist**

**Welcome and opening remarks**

- Kristalina Georgieva, CEO, World Bank
  - Lucy Muchoki, CEO, Pan African Agribusiness and Agroindustry Consortium
  - Christine Daugherty, Vice President, Global Agronomy Solutions, PepsiCo
  - Mike Johanns, Former U.S. Secretary of Agriculture and U.S. Senator of Nebraska (Ret.); Board Director, Daugherty Water for Food Global Institute at the University of Nebraska
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**9:30 – 10:45 a.m. Working Together for Water for Food**

Hank M. Bounds, President, University of Nebraska

**Trends and Drivers in Farmer-led Irrigation**

Speaker and panelists will define farmer-led irrigation and its position in the irrigation landscape and explore significant trends in the economic, demographic, geographic and policy facets of farmer-led irrigation in Africa.

**Speaker:** Shenggen Fan, Director General, International Food Policy Research Institute

**Moderator:** Howard W. Buffett, Management Advisory Board Member, Earth Institute at Columbia University; Board Director, Daugherty Water for Food Global Institute

**Panelists:**

- Seleshi Bekele Awulachew, Minister of Water, Irrigation and Electricity of Ethiopia
  - Christine Daugherty, Vice President, Global Agronomy Solutions, PepsiCo
  - Timothy Williams, Director for Africa, International Water Management Institute (IWMI)
  - Claudia Ringler, Deputy Director, International Food Policy Research Institute (IFPRI)
  - Rashid Mbaziira, Water Advisor, Africa Union Commission
  - Cissokho Cheikh Mouhamady, Honorary President, Réseau des organisations paysannes et de producteurs de l'Afrique (ROPPA)
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**10:45 – 11:00 a.m. Break**

# Conference Schedule

## Monday | January 29

### 11:00 a.m. – 12:30 p.m. **High Tech for Inclusive Growth**

*This session focuses on the role of technology in farmer-led irrigation. Panelists will discuss various types of hard and soft innovation that has worked in different parts of the world, i.e. irrigation systems, information, apps, pay-as you go models, adapted energy provision models etc. Discussion will focus on the opportunities and constraints to technology adoption and up-scaling: economic, social, policy factors etc.*

**Speaker:** Nuhu Hatibu, Head of GST3 (Tanzania, Rwanda, Uganda), Alliance for a Green Revolution in Africa (AGRA)

**Moderator:** Martha Mamo, Professor of Agronomy, University of Nebraska-Lincoln; Faculty Fellow, Daugherty Water for Food Global Institute at the University of Nebraska

**Panelists:**

- Richard Berkland, Vice President of Market Development, Global Irrigation Division, Valmont Industries, Inc.
- Christopher Neale, Director of Research, Daugherty Water for Food Global Institute at the University of Nebraska (DWF)
- Timothy Prewitt, CEO, iDE
- Elizabeth Nsimadala, President, Eastern Africa Farmers Federation
- David Ferguson, Director, Center for Development Innovation, U.S. Global Development Lab, U.S. Agency for International Development (USAID)
- Linda Kwamboka, Founder, M-Farm

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### 12:30 – 2:00 p.m. **Youth and Women are the Future of Farming**

Buffet lunch

**Speaker:** Wanjiru Kamau-Rutenberg, Executive Director, African Women in Agricultural Research and Development (AWARD)

**Moderator:** Ruth Meinzen-Dick, Senior Research Fellow, International Food Policy Research Institute (IFPRI)

**Panelists:**

- Mumba Mwape, Agricultural Research Officer, Zambian Ministry of Agriculture

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- Zuwaira Mohammed, Farmer, Nigeria
- Yahya Olubunmi, Farmer, Nigeria
- Blanche Butera, Rwandan Student, University of Nebraska-Lincoln
- Aude Gaju Ngoga, Rwandan Student, University of Nebraska-Lincoln

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### 2:00 – 3:30 p.m. **The Links to Strong Support: Inclusive Supply Chains and Financing**

*This session will examine the role of various supply chain actors in the development of farmer-led initiatives, addressing questions, such as: How are supply chains and financing tools being adapted to ensure the poor, women and youth can benefit from farmer-led irrigation solutions? What steps are involved in feasibility studies and developing viable business models? What financing options are available and how can we make them sustainable?*

**Speaker:** Anastasia Gekis, Director and Global Head for Manufacturing, Agribusiness and Services; International Finance Corporation (IFC)

**Moderator:** Nick Austin, Director for Agricultural Development, Bill & Melinda Gates Foundation

**Panelists:**

- Clement Ouedraogo Regional Coordinator; Inter-State Institute to fight Drought in the Sahel (CILSS)
- Youssouf Diallo, Water and Energy Specialist, PRACTICA Foundation
- Martin Fisher, Co-founder and CEO, KickStart International
- Tarek Kotb, Country Programme Manager, International Fund for Agricultural Development (IFAD)
- Phil Riddell, Independent Researcher and Adviser
- Kumar Ranganathan, Practice Lead, Senior Director, Water and Sanitation Infrastructure, Millennium Challenge Corporation
- Bola Olaniyan, Farmer and Executive Director, Agriculture Services, Ogun Osun River Basin Development Authority
- Bobby De Leon, Central Region Sales Manager, Jain Irrigation Inc.

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### 3:30 – 4:00 p.m. **Break**

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### 4:00 – 5:00 p.m. **Drought: From Risk to Resilience**

*Discussion of the role of farmer-led irrigated agriculture in reducing risk, increasing resilience and mitigating the effects of drought. Sharing best practices and technologies to monitor and prepare for drought.*

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**Moderator:** John Wilson, Director, Office of Technical Services, USAID Middle East and Asia Bureaus

**Panelists:**

- Daniel Tsegai, Program Officer (Drought), United Nations Convention to Combat Desertification
- Mark Svoboda, Climatologist and Director, National Drought Mitigation Center, University of Nebraska-Lincoln
- Tsegaye Tadesse, Climatologist, National Drought Mitigation Center, University of Nebraska-Lincoln
- Richard Damania, Global Lead for Water Poverty and the Economy, The World Bank

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**5:00 – 7:00 p.m. Water for Food Innovation Fair: Innovate to Irrigate**

*How are farmer-led irrigation practices driving the industry today?*

*Join us for our Innovation Fair, Innovate to Irrigate, as we showcase solutions from some of the most creative players in the irrigation field brought together under one roof. Learn about best practices being deployed in the field from top private firms, entrepreneurs, NGOs, research institutions, and cooperation between public and private enterprises. From remote-sensing solutions to mobile applications; geospatial technologies to agribusiness supply chain innovators; the fair and reception will connect you to the innovators of tomorrow's irrigation solutions.*

**Opening Remarks:**

- Congressman Jeff Fortenberry (R-NE)
- Laura Tuck, Vice President for Sustainable Development, The World Bank

**Fair Participants:**

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|--|---|
| ▪ Acclima  | ▪ Jain  |
| ▪ Ceres-WWF AgWater Challenge                          | ▪ KickStart   |
| ▪ Daugherty Water for Food Global Institute            | ▪ Lilongwe University of Agriculture & Natural Resources (LUANAR) |
| ▪ Descartes Labs                                       | ▪ M-Farm  |
| ▪ Dynamax  | ▪ Netafim   |
| ▪ EnviroAtlas  | ▪ Rivulis   |
| ▪ Feed the Future                                      | ▪ Sasaki Associates   |
| ▪ Foundation for Food and Agricultural Research (FFAR) | ▪ Solidaridad   |
| ▪ International Water Management Institute (IWMI)      | ▪ Studying African Farmer-Led Irrigation (SAFI)                   |
| ▪ Irritec  | ▪ Upstream Tech   |

# Conference Schedule

## Tuesday | January 30

**8:15 – 8:45 a.m. Check-in, continental breakfast**

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**8:45 – 9:00 a.m. Welcome and overview**

- Nick Brozović, Director of Policy, Daugherty Water for Food Global Institute (DWFI)
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**9:00 – 10:30 p.m. Collective Action is Making it Happen**

*Explore the options and innovations in sustainable water resources management for agriculture, including incentive-based water conservation tools. Panelists will discuss the risks and challenges, the role of local institutions, and governance approaches in various parts of the world. Case studies will illustrate the lessons emerging for policymakers.*

**Speaker:** Tushaar Shah, Senior Fellow (IWMI)

**Moderator:** Christopher Hartley, Deputy Director and Senior Environmental Markets Analyst, Office of Environmental Markets, USDA

**Panelists:**

- Tushaar Shah, Senior Fellow, IWMI
- Kate Gibson, Program Associate, Daugherty Water for Food Global Institute
- Dustin Garrick, Co-Director, Water Programme, Smith School of Enterprise and the Environment, University of Oxford
- Ellen Hanak, Senior Fellow and Director, Water Policy Center, Public Policy Institute of California
- Jose Luis Taylor, Director de Agro negocios, Grupo Modelo-InBev

**Discussants:**

- Bancy Mati, Director, Water Research & Resource Center (WARREC), Jomo Kenyatta University of Agriculture and Technology
  - Fred Kizito, Senior Scientist, International Center for Tropical Agriculture (CIAT)
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**10:30 – 11:00 a.m. Break**



# Conference Schedule

## Tuesday | January 30

### 11:00 – 12:30 p.m. **Bringing it all together**

*This session will focus on the enabling environment for farmer-led irrigation and will include short case studies demonstrating successful farmer-led irrigation models, highlighting key factors that contributed to their success, and identifying lessons to guide future investments.*

**Speaker:** Sithembile Mwamakamba, Climate Smart Agriculture Programmes Manager, Food, Agriculture and Natural Resources Policy Analysis Network (FANRPAN)

**Moderator:** Saa Dittoh, Researcher, University for Development Studies, Ghana

#### **Panelists:**

- Sithembile Mwamakamba, Climate Smart Agriculture Programmes Manager, FANRPAN
- Abraraw Bihonegn Dnessa, Farmer, Libokemkem (Addis Zemen) District, Amhara Regional State, Ethiopia
- Amadou Sidibé, Sidibé AgroTechniques
- George V. Lugomela, Assistant Director of Water Resources, Ministry of Water and Irrigation, Tanzania
- Qiuqiong Huang, Associate Professor, University of Arkansas
- Stanley Khalia, Community Development Specialist, Shire Valley Transformation Programme

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### 12:30 – 2:00 p.m. **Lunch buffet – Producer organizations, working together for progress**

**Speaker:** John Piotti, President, American Farmland Trust

**Speaker:** Steven Jacobson, Senior Program Officer, Cultivating New Frontiers in Agriculture

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### 2:00 – 3:30 p.m. **The Way Forward (Rooms MC 13-121)**

High-level speakers will share their vision for and commitment to how the private and public sectors can better work together moving forward to expand access to irrigation through a farmer-led and private sector-driven approach in which the public sector supports inclusiveness and resource sustainability.

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**Moderator:** Ertharin Cousin, Ambassador and former Executive Director, World Food Programme; Distinguished Fellow Chicago Council on Global Affairs

**Panelists:**

- Victor Canhemba, Mozambique Permanent Secretary in the Ministry of Agriculture and Food Security
- Gagandeep Singh Bedi, IAS, Principal Agriculture Secretary, Tamil Nadu
- Simeon Ehui, Director, Agriculture Global Practice World Bank
- Mamane Annou, Director General, MCA-Niger
- Claudia Sadoff, Director General, IWMI
- Oswald Mulenga Chanda, Director of Water, African Development Bank
- Robert Bertram, Chief Scientist, Bureau for Food Security, USAID
- Lucy Muchoki, CEO, PanAAC
- Adama Ekberg Coulibaly, Chief of Food Security, Agriculture and Land Section – Regional Integration and Trade Division, United Nations Economic Commission for Africa
- Melissa D. Ho, Managing Director, Africa, Millennium Challenge Corporation, Department of Compact Operations
- Olcay Unver, Deputy Director of Land and Water, Food and Agriculture Organization of the United Nations (FAO)
- Nuhu Hatibu, Head of GST3, AGRA
- Hamady Diop, Head of Programme, Agriculture, Food Security and NRM, New Partnership for Africa's Development (NEPAD)

**Closing Remarks**

- Guangzhe Chen, Senior Director, Water Global Practice, World Bank
- Peter G. McCornick, Executive Director, Daugherty Water for Food Global Institute

# About



The Robert B. Daugherty Water for Food Global Institute at the University of Nebraska was founded in 2010 to address the global challenge of achieving food security with less stress on water resources through improved water management in agricultural and food systems. We are committed to ensuring a water and food secure world while maintaining the use of water for other vital human and environmental needs.

Learn more at [waterforfood.nebraska.edu](http://waterforfood.nebraska.edu).



The World Bank is a vital source of financial and technical assistance to developing countries around the world. It is not a bank in the ordinary sense but a unique partnership to reduce poverty and support development. The World Bank Group comprises five institutions managed by their member countries. Established in 1944, the World Bank Group is headquartered in Washington, D.C, with more than 10,000 employees in more than 120 offices worldwide.

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