



**SfL Side Event for IICA
Sustainable Agriculture of the Americas Pavilion
COP 27
Monday, November 14, 2022
12:30-14:00**

Organizer: Solutions from the Land

Title: Water is the face of Climate Change

Event/Exhibit Description:

Agriculture and food production require abundant clean water. Water management has always been critical to rainfed and irrigated agriculture production systems. Yet, the increasing uncertainties associated with the unpredictability in timing and rates of rain and snowfall have accelerated the challenges in managing the extremes--drought and flooding--that shifting weather patterns and changing climates have brought. This session will showcase how farmers across the Americas are leading the way in water management innovation and some of the plant breeding research underway to increase crop resilience under water stress.

Event/Exhibit Significance

Farmers need a variety of low- and high-tech approaches, continual re-assessments of their cropping systems and land uses, and more attentive and pro-active water-soil resource management--conservation, recycling, and redistribution- to concurrently deliver multiple ecosystem services and agriculture and food products. Further, an increasingly variable and changing climate means farmers need an expanded variety of crops with genetic capacities that thrive in both extreme wet and dry conditions. This panel will discuss the need for uncommon multistakeholder collaborations among governments, the private sector, academia, agriculture, food systems, forestry and aquaculture sectors as well as civil society if farmers, foresters, and fishers are to realize their capacities to better manage water and produce the many benefits society needs.

Panel

Moderator- AG Kawamura, former Secretary California Department of Food & Agriculture; Co-Chair, Solutions from the Land

Public funded science. Dr. Jerry Hatfield, soil scientist and agricultural climatologist, and advisory board member USDA-NIFA Rainfed Agriculture Innovation Network (RAIN) in semi-arid

southern Great Plains diversification and intensification of Southern Great Plains cropping systems. Rainfedag.org [remote]

Producers and value chain partners will share their climate smart strategies for managing and recycling water; cropping systems that increase soil resilience under drought and excess water;

- Brad Doyle, Weiner, Arkansas, USA- Berger Farms/Eagle Seed. Grows rice, soybean, 100% irrigated, Tailwater recovery system (#1 rice growing farm in the US)
- Jocelyn Anderson, Willows, CA- GSA Farms, California, USA Almonds, walnuts, row crops. Walnut huller technologies and water mgt
- John Farner, Netafim- Private-public water management innovations and partnerships in the Americas.

Potential “Water is the Face of Climate” panel questions:

1. What are the water challenges you face in managing your farm systems?
2. What climate smart system-level strategies and innovations are you using to improve the resilience of your farm systems?
3. How can producers be rewarded not just for producing commodities, but for the water they filter and store, the carbon they sequester, the biodiversity and wildlife habitat they enhance, the economic growth and local wealth they generate and the improved of life they produce?
4. How can research processes be prioritized and streamlined to integrate agriculture and forestry with water management, conservation goals and ecosystem services?
5. How can we expand and accelerate farmer-to farmer experimentation and knowledge sharing on managing water and soil resources and other ecosystem services delivery?
6. What public-private partnerships are needed to manage water resources in headwaters to ensure downriver water availability?