

Global Agriculture Innovation Forum



March 19, 2021

9:00-10:30 a.m. EDT, USA (UTC-4)

**Farms and Farmers of the Future Will Be:
Sustainable and Climate-Smart**

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Moderator

Dr. Adam Chambers, Air Quality Scientist, USDA-Natural Resources Conservation Service. Adam leads Environmental Markets activities under NRCS's Energy and Environmental Markets Team. His work focuses on leveraging markets that value ecosystem services, building strategic partnerships, and getting 'more conservation on the ground'. Over the past two decades Dr. Chambers' project work has focused on the applied sciences and reducing atmospheric pollutants (air pollutants and greenhouse gases). He is currently working to implement conservation practices on managed agricultural lands that reduce greenhouse gas emissions and enhance carbon sequestration in soils.



Resilient Agricultural Systems

Dr. Robert Bertram, Chief Scientist, USAID Bureau for Resilience and Food Security. In this role, he leads USAID's evidence-based efforts to advance research, technology and implementation in support of the U.S. Government's global hunger and food security initiative, Feed the Future. He coordinates the Bureau for Food Security's research portfolio spanning the U.S. University Feed the Future Innovation Labs, the CGIAR and other International Agricultural Research Centers, public-private partnerships in biotechnology, all of which collaborate and build capacity with partner country organizations.



Soil Quality and Health

Dr. Rattan Lal, Distinguished University Professor of Soil Science, The Ohio State University, member of the U.N. Food Security Summit Science Committee. Dr. Lal was awarded the World Food Prize in 2020 "for developing and mainstreaming a soil-centric approach to increasing food production that restores and conserves natural resources and mitigates climate change. Dr. Lal has promoted innovative soil-saving techniques benefiting the livelihoods of more than 500 million smallholder farmers, improving the food and nutritional security of more than two billion people and saving hundreds of millions of hectares of natural tropical ecosystems." In addition to being listed the top of his field in a Stanford University study of the top 2% of scientists globally, Dr. Lal is laureate of the 2018 GCHERA World Agriculture Prize, 2018 Glinka World Soil Prize, 2019 Japan Prize, 2019 U.S. Awasthi IFFCO Award, 2020 Arrell Global Food Innovation Award, and the 2021 Padma Shri Award.



Adapting Agricultural Systems to the Effect of Climate Change

Dr. M.L. Jat, Principal Scientist-Sustainable Intensification, CIMMYT. Devoted two decades to intensively work on basic and applied science in agronomy, soils and environment to promote Conservation Agriculture (CA) based sustainable intensification and climate smart agriculture in smallholder systems of Asia. His significant research outputs, capacity development initiatives and policy communications have led to impact at scale in Smallholder systems of south Asia.



Integrated Crop-livestock Systems as a Climate-smart Strategy for Food Security

Dr. Paulo Carvalho, Discipline Leader in the Grazing Ecology Research Group, Federal University of Rio Grande do Sul, Brazil. The topics of his research include conservative management of pastoral ecosystems and integrated crop-livestock systems. He leads the Technical Coordination of PISA Extension Program reaching 1819 small stakeholders in Southern Brazil, being awarded the “Futuro da Terra” Medal for this achievement. Featured in a study by Stanford University on the list of 2% of the most influential researchers in the world in 2019. He was awarded as “Outstanding Researcher in Agricultural Sciences” in 2020 by FAPERGS.

Future forum themes

- Innovations in Genetic Improvement of Agricultural Systems – beginning **May 4, 2021**
- Innovations in Post-Harvest Management – beginning **June 29, 2021**
- Innovations in Entrepreneurship, Especially Among Youth – beginning **August 24, 2021**
- Innovations in Information and Communication Technologies – beginning **October 19, 2021**
- Innovations in Scaling – beginning **December 14, 2021**

About the Global Agriculture Innovation Forum:

The Global Agriculture Innovation Forum is a joint undertaking between USDA's Foreign Agricultural Service and Purdue University's Office of International Programs in Agriculture. The Forum will be valuable to entrepreneurs, producers, value-chain operators, service providers, and researchers, as well as donor agencies and implementing partners and will consist of a series of virtual events held throughout 2021. All events are free, but registration is required. Registration provides post-event access to all presentations as well as access to additional curated material on the topic.

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