



### Climate Change Impacts, Adaptation and Mitigation Technologies (V16H2S1)

Under Vertical: Agro economy & Food Security (V16)

ICAR- Indian Agricultural Research Institute, New Delhi

October 08, 2020, 17:00 to 21:00 hrs (IST)

#### Program

Details	Time (IST)
<b>Setting the stage</b>	<b>17:00 – 17:30</b>
Welcome : <b>Dr AK Singh</b> , Director, ICAR-IARI, New Delhi	
Introduction to the Session : <b>Prof. Soora Naresh Kumar</b> , ICAR-IARI, New Delhi by the Session Coordinator	
Session Chair : <b>Dr. Brahma Singh</b> , Padma Shri, Ex-Sec. Life Sciences Research Board, DRDO, New Delhi	
Session Co-Chair : <b>Dr B. Venkateswarlu</b> , Ex-VC, VNMAU, Parbhani, Ex Director, ICAR-CRIDA, Hyderabad	
Session Co-Chair : <b>Dr S. Bhaskar</b> , Asst. Director General, ICAR, New Delhi	
<b>Presentations</b>	
<b>Dr S. Naresh Kumar</b> , ICAR- Indian Agricultural Research Institute, New Delhi	17:30-17.45
<b>Dr. Dilip Swain</b> , Indian Institute of Technology, Kharagpur	17.45:18:00
<b>P.V. Vara Prasad</b> , Kansas State University, Kansas USA	18.00-18.20
<b>Uday Nidumolu</b> , CSIRO Agriculture & Food, Australia	18:20-18.40
<b>Dev Niyogi</b> , University of Texas at Austin, USA	18.40-19.00
<b>Views by the panelists</b>	
<b>Dr UC Mohanthy</b> , Indian Institute of Technology, Bhubaneswar <b>Dr H Pathak</b> , Director, ICAR-National Institute of Abiotic Stress Management, Baramathi <b>Dr Shiv Atri</b> , India Meteorological Department, New Delhi <b>Prof. Binayak P. Mohanty</b> , Texas A&M University, Texas, USA <b>Dr Bandaru Varaprasad</b> , University of Maryland, USA <b>Dr Nambi</b> , World Resources Institute, Bangalore <b>Dr M. Prabhakar</b> , ICAR-CRIDA, Hyderabad; <b>Dr Arti Bhatia</b> , ICAR-IARI, New Delhi <b>Dr Shalander Kumar</b> , ICRISAT, Hyderabad <b>Dr Niveta Jain</b> , ICAR-IARI, New Delhi <b>Dr N Ravishankar</b> , ICAR-IIFSR, Modipuram <b>Dr PU Zacharia</b> , ICAR-CMFRI, Kochi <b>Dr RC Upadhyay</b> , Ex-Principal Scientist, ICAR-NDRI, Karnal <b>Dr Bidisha Chakrabarti</b> , ICAR-IARI, New Delhi	19.00-20.00
Discussion and Q/A	20.00-20:30
Summary of the session and points emerged	20:30-20:40
Final remarks co-chairs and Chair	20:40-20.55
Vote of thanks	20.55-21.00

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Event number: 170 765 5228 For more details: <https://innovate.mygov.in/vaibhav-summit/> ; <https://vaibhav.gov.in>



**P.V. Vara Prasad** is the University Distinguished Professor and Director of the Feed the Future Innovation Lab for Collaborative Research on Sustainable Intensification at Kansas State University Manhattan, Kansas, USA. He obtained his BS and MS degrees from Andhra Pradesh Agricultural University (India), and PhD from University of Reading (United Kingdom). His research focuses on understanding responses of crops to changing environments and developing best management strategies to improve and protect yields. He is passionate about research, education, and outreach activities; and building human and institutional capacity. He

has active programs in several countries in Africa and Asia focused on improving livelihoods of people and providing food and nutritional security to smallholder farmers. He has published >255 peer-reviewed journal articles and book chapters. His research has been cited >12,600 times with h-index of 59 and i-index of 157. He has trained >150 students and research scholars. He gave >100 invited talks in 40 countries. He received > \$120 million (about \$80 million as principal investigator) in grant funding and donations. He is an elected fellow of American Society of Agronomy; Crop Science Society of America; and American Association for the Advancement of Science. He was recently elected to serve as the President of Crop Science Society of America; and to serve on International Commission on Sustainable Agricultural Intensification. Contact: [vara@ksu.edu](mailto:vara@ksu.edu); Web: [www.ksu.edu/siil](http://www.ksu.edu/siil); [Google Scholar Profile](#); [Research Gate Profile](#).



**Dr Soora Naresh Kumar** is Professor and Principal Scientist at the Centre for Environment Science and Climate Resilient Agriculture, ICAR-Indian Agricultural Research Institute, New Delhi, India. His research expertise include developing process based models for decision support systems, assessing impacts, adaptation gains and vulnerability of major field and horticultural crops to climate change and implementation of climate change adaptation options in farmers' fields. Currently he is leading the DST-National Facility for Capacity Building on Simulation Modelling in Agriculture and the InfoCrop modelling group. Developed decision support models for management of perennials (coconut, grape) and

annual crops (green gram, spinach and cauliflower). He is also leading National Innovations in Climate Resilient Agriculture (NICRA) project at IARI, NICRA Modeling Team in India, NATCOM-TNC Project of Ministry of Environment Forests and Climate Change, Govt of India and CHAMAN project of Mahalanobis National Crop Forecasting Centre, Ministry of Agriculture and Farmers, Govt of India. Is involved in Agricultural Model Inter-comparison and Improvement Project (AgMIP) since its inception in 2011 as a member of AgMIP-wheat, rice, maize, potato and soybean pilot groups. He is the Government of India as well as IPCC Expert Reviewer for IPCC reports on Climate Change. Member, Program Advisory Committee, INSPIRE, DST, GoI; Member, Global Steering Council, AgMIP, NASA, Columbia University, USA; Member, WMO Task Team on Climate and Agricultural Modelling for Sustainable Agriculture, WMO Geneva. He is widely travelled across many countries and has been bestowed with JC Bose Gold medal by ISPP and is fellow of Scientific Societies. Contact at: [nareshkumar.soora@gmail.com](mailto:nareshkumar.soora@gmail.com); [snareshkumar.iari@gmail.com](mailto:snareshkumar.iari@gmail.com); [nareshkumar@iari.res.in](mailto:nareshkumar@iari.res.in); <https://scholar.google.co.in/citations?user=DhuO73AAAAAJ&hl=en>



**Uday B. Nidumolu**, is the Principal Research Scientist, Climate Smart Agriculture Group, Sustainability Programme, CSIRO Agriculture & Food, Australia. Dr Nidumolu is a research scientist with over 20 years of experience and comes with a strong interdisciplinary background and a systems approach to research for improved primary productivity and natural resource management outcomes. He works on linking climate science (short-term weather, seasonal and multi-decadal climate change scales) with food systems analysis to support decision making processes from farm-scale through to value chains and policy levels. To achieve these, he applies a combination of spatial modelling, statistical analysis of climate-related data, whole-farm bio-economic modelling, value chain analysis and participatory engagement tools. Dr Nidumolu obtained his master's degree from Cambridge University, UK and his PhD from Wageningen University, the Netherlands and has over 100 publications to his credit. Dr Nidumolu is a Lead Author contributing to the UNEP-WMO Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report Working Group II (Impacts, Adaptation and Vulnerability) (2018-2022). Contact: [uday.nidumolu@csiro.au](mailto:uday.nidumolu@csiro.au)



**Prof. Dillip Kumar Swain**, is Professor, Agronomy (Agricultural Systems & Management), Agricultural and Food Engineering Department at Indian Institute of Technology (IIT) Kharagpur, Kharagpur – 721 302, INDIA. Prof. Dillip Kumar Swain had Post-Doctoral Research on Climate Change Adaptations at the United Nations University (Tokyo, Japan), availing Japan Society for the Promotion Science Fellowship during 2003 to 2005. Prof. Swain teaches the subjects: Systems Approach in Agriculture, Soil-Plant-Water Relationships, Crop Production Systems, Management and Productivity, and Organic Food Chain Management for undergraduate and postgraduate students in Agricultural and Food Engineering. The research areas of Prof. Swain are Climate Change Adaptations/Mitigations for Crop Production, Organic Farming and Sustainable Agricultural Production, and Crop Modeling and Simulation. Prof. Swain is actively involved in outreach activities through dissemination of weather-based agro-advisory to farmers for planning agricultural operations and demonstration of food production technologies in farmers' field. Contact: [swain@agfe.iitkgp.ac.in](mailto:swain@agfe.iitkgp.ac.in); [Dillipswain70@gmail.com](mailto:Dillipswain70@gmail.com)



**Prof. Dev Niyogi**, is Dave P. Carlton Centennial Professor at the Department of Geological Sciences, Jackson School of Geosciences and Professor, Department of Civil, Architectural, and Environmental Engineering, Cockrell School of Engineering, The University of Texas at Austin. USA. Prof. Niyogi was the most recent chair of the American Meteorological Society (AMS) Board of Urban Environment and elected advisory board member of the International Association of Urban Climate. He is currently serving on the AMS Committee on Applied Climatology, and has previously served on AMS Committee on Agriculture and Forest Meteorology, invited member FGDC Spatial Climate Working Group, Member of the Weather Research and Forecast (WRF) model WG-14 (land surface models), and Member of the AGU Biogeochemistry meetings group / spring meeting student awards chair. He has provided invited testimonies to the National Academy study group, planning summer meetings, and Senate Working groups. Contact: [dev.niyogi@jsg.utexas.edu](mailto:dev.niyogi@jsg.utexas.edu)