

NATIONAL ACADEMY OF AGRICULTURAL SCIENCES

XIII INDIA NATIONAL AGRICULTURAL SCIENCE CONGRESS (INASC)

21ST – 24TH FEBRUARY 2017 'CLIMATE SMART AGRICULTURE'

SATELLITE DISCUSSION MEETING

"I.C.T NEXT- CLIMATE SMART AGRI-TECH"

Date & Time

Thursday, the 23RD FEB 2017 Pre-Lunch Sessions

11.30 AM thru 1.30 PM PRESENTATION & PANEL DISCUSSIONS

03.30 PM thru 4.00 PM POSTER & TEA

Venue - Dr Rajendra Prasad Convention Hall, Univ Of Agricultural Sciences, Bengaluru

DISRUPTIVE SMART AGRI-TECH TRENDS – CLIMATE ADAPTIVE INITIATIVES

Agricultural Value Chain, as a whole, revolves around a highly dynamic environment, considering its dependence on multi-various factors viz agro-climate, geographical locations, available resources- land, labour & capital and importantly the demand & supply of inputs, services as well as produce. ICT is envisaged to be an important tool towards Smart-Agricultural Value Chain. Enormous initiatives in this direction are already in vogue, both in terms of R & D with successful field trails & demonstrations evolving dependable results. Yet, the vastness of agricultural domain is still to capture the magnitude of innovations in Information Technology & Communication. We recognise the huge potential to explore, which should be a continuous exercise in the ensuing years. Need of the hour is blending ICT with Agricultural Domain, across the globe.

Smart ICT applications towards climate change mitigation technologies supporting the agricultural operations across the value chain, considering its backward / forward integration, and production / processing as well, are necessarily of low carbon footprint in order to reduce GHG emissions.

The Satellite Discussion Session of XIII INASC is proposed to illustrate how new and emerging ICTs should be applied in to mitigate impacts of climate change. The brainstorming session is envisaged to bring together the experts from ICT as well as agricultural domain to highlight some smart applications & solutions, like the smart grid, mobile phone, IOT, Machine Learnings, Virtual / Augmented Reality, ICT-enabled technologies for energy efficiency and management, ICT-enabled smart technologies for transportation, land use change and forestry emissions mitigation, smart motors for enhancing carbon footprint reduction in manufacturing and smart buildings technologies.

These discussions should bring about collaboration amongst policymakers, academia, research and business from ICT as well as agricultural domain. Focus shall be on identifying the challenges and recommend locally adaptable appropriate ICT-enabled climate change mitigation technologies. Priority shall be on ICTs with low carbon footprints, which are potentially capable of mitigating impacts of climate change. The prevailing constraints across the agro-climatic zones must be overcome, which will necessary include capacity building and also, ICT-embedded carbon-offset bankable project financing. Next actionable will also focus on capacity building thereon as a continuous efforts towards the realisation of Climate Smart Agriculture.

DISRUPTIVE SMART AGRI-TECH TRENDS – CLIMATE ADAPTIVE INITIATIVES

11.30 AM – 11.40 AM -

Introduction & Expert Advisory – Panel Chairman’s Address

Dr. Venkatesh Kumaran

Vice President, India Electronics & Semi-Conductor Association (IESM)

“Paradigm Shift In Smart Agro-Tech”

Introducing ICT Applications – Viz - IOT, Machine Learning, Drones, Virtual Reality & Augmented Reality etc.,– Challenges and Solutions

Convener – Mr Ashok Kumar Meda, CEO, ShriPrabha GMEXIM

11.40 PM – 12.40 PM

Expert Panelists – Experiential Sharing / Success Stories (7+1 Min Each) & Discussions

- **GIS and Remote Sensing Techniques for decision making in climate change control**
Mr. Navin Twarakavi, Research Lead, Digital Farming Initiative, Tata Consultancy Services(TCS)
- **Risk Mitigation - Data Analytics /Agri-Business Analytics, Machine Learning, Predictive Analytics**
Mr. Prasenjit Mukherjee, Lead Data Scientist, Microsoft India
- **Value Chain Agriculture - IT Support Towards Resource Optimization & Sustainable Farming Practices**
Dr. M.J. Chandre Gowda, Principal Scientist, ATARI, ICAR
- **Smart Agro-Tech ‘Next’ – IT Applications Initiatives**
Dr Rajendra Nath Goswami – Senior General Manager, Business-Agric. RBEI/EBD-Robert Bosch
- **Mitigating Impact of Climate Change & Natural Disaster Management in Agricultural Practices – ‘Varuna Mitra’**
Dr. G.S. Srinivasa Reddy – Director, Karnataka State Natural Disaster Monitoring Centre
- **Global Perspectives On Agricultural Commodities – Economics & Predictive Analytics**
Dr. G. Srivastava, President, Foretell Business Solutions
- **ICT Solutions - Agricultural Advisory, Extension Education Services, Inclusive Agriculture**
 - Mr. Anand Babu, Founder & CEO, Jayalaxmi Agri-Tech (AgriPole)
 - Mr Ganesh Shanker, FluxGen Engineering Tech

12.40 PM – 1.30 PM - PANEL DISCUSSIONS, Q & A with Audience Participation

REPORTEUR – Dr, C N Prabhu, Scientist, KSNDMC

3.30 PM – 4.00 PM - POSTER PRESENTATIONS & TEA