

**INTERNATIONAL CONFERENCE ON
NANOBIOTECHNOLOGY FOR AGRICULTURE: FROM RESEARCH TO INNOVATION**

DAY 1, 20th November 2017 (Silver Oak, IHC)

0830 am-onwards : Registration (Silver Oak, IHC)

0930 am – 1115 am : Session 1: Smart nano vehicles for efficient delivery of agrochemicals and agents that can ameliorate soil health (Silver Oak, IHC)

(Convenor - Dr Dhananjay K Tiwary)

(Session Analysts and Rapporteurs: Dr Alka Pandey, Dr Nupur Bahadur)

- 0930 am – 0950 am : **Nanonutrients: An input for sustainable agriculture** - Dr Alok Adholeya, TERI
- 0950 am – 1005 am : **Nanopesticides** - Dr PK Patanjali, IPFT, Gurgaon
- 1005 am – 1020 am : **Smart Nanomaterials: Synthesis, surface chemistry and applications to Agri-Food domain** - Dr Anand Gole, TCL Innovation Centre, Pune
- 1020 am – 1035 am : **Nanostructured materials for agricultural applications**- Prof Lingxue Kong, Deakin University
- 1035 am – 1045 am : **Nano-chitosan for crop protection and growth** – Dr Vinod Saharan, MPUAT, Udaipur
- 1045 am – 1115 am : **Interactive Discussion with Panelists**
Discussants + audience

1115 am – 1135 am : Tea Break (Poster Session in parallel) (Silver Oak, Patio, IHC)

1135 am – 0130 pm : Session 2: Nano-enabled Technologies for Pre- and Post- harvest agricultural produce and the farm sector (Silver Oak, IHC)

(Convenor - Dr Alok Adholeya)

(Session Analysts and Rapporteurs: Dr K C Bansal, Dr Braj Raj Singh)

- 1135 am – 1155 am : **Lab-on-Chip Platforms for Efficient and Automated Farming (LEAF)** – Dr V Ramgopal Rao, IIT Delhi
- 1155 am – 1210 pm : **Nanomaterials for crop protection** – Prof David Cahill, Deakin University, Australia
- 1210 pm – 1225 pm : **Attempts to adopt nanotechnology for the targeted pest and diseases control in crop and crop produce**- Dr PS Vijayakumar, INST, Mohali
- 1225 pm – 1235 pm : **Electrospun nano-fibre Technology for Minimizing Post-harvest Losses in Mangoes** – Prof KS Subramanian, TNAU, Coimbatore
- 1235 pm – 0105 pm : **Interactive Discussion with Panelists**
discussants (3 minutes each) + audience

0105 pm – 0120 pm : **Trigger Talk - Agriculture of Nanoparticles and Potential Approaches to Enhance their Values** *Dr. Bal Ram Singh, Director, INADS, USA (Silver Oak, IHC)*

0120 pm – 0200 pm : Lunch Break (Silver Oak Patio, IHC)

0200 pm – 0345 pm : **Session 3: Sensing Technologies for Agriculture and the Farm** (Silver Oak, IHC)

(Convenor - *Dr Bal Ram Singh*)

(Session Analysts and Rapporteurs: *Dr Mukul Dubey, Dr Manish Gupta*)

- 0205 pm – 0225 pm : **Nanotization of phyto-active compounds** – *Prof Colin Barrow, Deakin University, Australia*
- 0225 pm – 0240 pm : **Engineered Biochar- A Smart and Sustainable Solution to Stubble Burning, Soil Fertility, Food Security, and Climate Change Mitigation** - *Prof Dinesh Mohan, JNU*
- 0240 pm – 0255 pm : **Development of Biosensors for Animal Specific Pathogens** - *Dr. Praveen Singh, IVRI, Izatnagar*
- 0255 pm – 0310 pm : **Agri-Nanotechnology** - *Dr. TNVKV Prasad, ANGRAU, Tirupati, Andhra Pradesh*
- 0310 pm – 0320 pm : **Hybrid thin film nano-composite membrane reactors for simultaneous separation and degradation of pesticides** – *Dr Ludovic Dumeé, Deakin University, Australia*
- 0320 pm – 0350 pm : **Interactive Discussion with Panelists**
discussants (3 minutes each) + audience

0350 pm – 0410 pm : Tea (Poster Session in parallel) (Silver Oak Patio, IHC)

0410 pm – 0430 pm : **Special Talk - The Nanotechnology view point of DST – Nanomission** - *Dr. Rajiv Sharma, Mission Director, Nanomission, DST, Govt of India and Secretary, SERB (Silver Oak, IHC)*

0430 pm – 0450 pm : **Special Talk - The perspective of DBT** - *Dr. Dhananjay K Tiwary, Joint Director, DBT, Govt. of India (Silver Oak, IHC)*

0500 pm – 0600 pm : **INAUGURATION (Silver Oak)**

0600 pm onwards : Networking and Banquet Dinner (Silver Oak Lawns, IHC)

DAY 2, 21st November 2017

0900 am – 1040 am : Session 4: Nanosystems in terms of their perceived hazards and mitigation strategies (Silver Oak, IHC)

(Convenor – Dr Namrata Pathak)

(Session Analysts and Rapporteurs: Dr Pushplata Singh, Dr Ratul Kumar Das)

- 0900 am – 0920 am : **Nanomaterial toxicity and toxicology** – Prof. Alok Dhawan, IITR
- 0920 am – 0935 am : **Existing regulations in Nanotechnology and way forward**– Prof. Y K Gupta and Prof Amit Dinda, AIIMS
- 0935am – 0950 am : **Safety and Concerns of Nanopesticides** - Dr Madhuban Gopal, IARI
- 0950 am – 1005 am : **Nanotoxicity** – Prof Jagat Kanwar, Deakin University
- 1005 am – 1045 am : **Interactive Discussion with Panelists**
discussants (3 minutes each) + audience

1045 am – 1100 am : Tea Break (Silver Oak Patio, IHC)

1100 am – 1215 pm : Session 5 - Facilitating Nano-based Technologies and Fostering Innovation (Silver Oak, IHC)

(Convenor – Prof Ramgopal Rao)

- **Panelists** – would present their brief views on the theme
 - Dr Renu Swarup *, MD, BIRAC
 - Dr Bindu Dey, Secretary, TDB, DST
 - Dr Rajiv Sharma, Mission Director, Nanomission, DST and Secretary, SERB
 - Dr Vipin Kumar, Director, NIF
 - Dr. A. Wali, Director, FIIT
 - Mr. V K Gour, CMD, NSC

1215 pm – 0100 pm : Lunch at Silver Oak Patio, IHC

0110 pm – Departure for TERI Gram, Gual Pahari

0230 pm – Arrival at TERI Retreat Lawns, Gual Pahari

0245 pm – 0300 pm : Introduction to the Session 6 (Ganga Hall, Retreat, Gual Pahari) by

Dr Dhananjay K Tiwary

0300 pm – 0500 pm : **Session 6– Breakout Group Discussions in the Thematic areas relevant to the Conference (Parallel sessions at Ganga, Yamuna, Cauvery at Retreat and Lecture Room, NBRC)**

- **6A: Smart nano vehicles for efficient delivery of agrochemicals and agents that can ameliorate soil health**
(Convenor - Dr Dhananjay K Tiwary)
(Session Analysts and Rapporteurs: Dr Alka Pandey, Dr Nupur Bahadur)

- **6B : Nano-enabled Technologies for Pre- and Post- harvest agricultural produce and the farm sector**
(Convenor - Dr Alok Adholeya)
(Session Analysts and Rapporteurs: Dr K C Bansal, Dr Braj Raj Singh)

- **6C : Sensing Technologies for Agriculture and the Farm**
(Convenor - Dr Bal Ram Singh)
(Session Analysts and Rapporteurs: Dr Mukul Dubey, Dr Manish Gupta)

- **6D: Nanosystems in terms of their perceived hazards and mitigation strategies**
(Convenor – Dr Namrata Pathak)
(Session Analysts and Rapporteurs: Dr Pushplata Singh, Dr Ratul Kumar Das)

0500 pm – 0600 pm : TERI Deakin Nanobiotechnology Centre facility visit by Dr Alok Adholeya

0600 pm - 0620 pm : Valedictory Session

0630 pm onwards : Cultural Evening followed by Dinner at TERI Retreat Lawns, Gual Pahari

* To be confirmed