



Innovations for Future

8th-9th December, 2021 | Hybrid Event (Online + In person), Venue: TERI-Deakin Nanobiotechnology Centre, TERI, Gurugram, Haryana, India

NANOFORAGRI 2021:

Technology Readiness and Overcoming Regulatory Barriers to Implement Nanotechnology-Enabled Agriculture for Sustainable Future

8th-9thDecember, 2021

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Day 1	8 th December 2021
08:30 AM - 09:30 AM	REGISTRATION
09:00AM – 09:05 AM	OPENING OF NANOFORAGRI - 2021 Welcome – Dr Pushplata Singh, Director, TERI-Deakin Nanobiotechnology Centre (TDNBC), TERI, Gurugram Haryana, India
09:05 AM – 10:15 AM	Session I - Advances in Nano-fertilizers and Nano-pesticides
Chair – Prof. David Cahill, Personal Chair, Deakin University, Australia Rapporteur – Dr. Ruchi Agrawal, TDNBC, Gurugram Haryana, India	

09:05 AM – 09:20 AM	Keynote Speaker Nanonutrients for crop production and plant protection Dr J C Tarafdar, Former ICAR Emeritus Scientist, Central Arid Zone Research Institute (CAZRI), Jodhpur, India.
09:20 AM – 09:35 AM	Agri Nanomaterials for sustainable agriculture: Advantages and limitations Dr Pushplata Singh, Director, TDNBC, TERI, Gurugram, Haryana, India
09:35 AM – 09:50 AM	Indo-Norway Scientific Collaboration: Activities and Opportunities Dr Maan Singh Sidhu, Science and Technology Counsellor, Royal Norwegian Embassy, New Delhi, India
09:50 AM – 10:05 AM	Efficacy-Biosafety-Toxicity of Nanofertilizers – IFFCO's Experience Dr Tarunendu Singh, Head (Agriculture Services), IFFCO Sadan, New Delhi, India
10:05 AM – 10:20 AM	Nano-driven Farm Inputs Shri Sagar Kaushik, UPL Limited, Mumbai, India
10:20 AM – 10:30 AM Panel Discussion	Advances in Nano-fertilizers and Nano-pesticides Panelists: Speakers from the session Moderator: Dr Anand Gole, Coromandel International Limited, Hyderabad, India





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10:30 AM – 11:35 AM	INAUGURAL SESSION
10:30 AM – 10:35 AM	Arrival of Dignitaries, Felicitation and Lamp Lighting
10:35 AM – 10:40 AM	Welcome Address
	Dr Vibha Dhawan, Director General, TERI, India
10:40 AM – 10:45 AM	Keynote Address
	Dr Namrata Pathak, Technology Mission Division (Nano Mission), Department
	of Science & Technology, India
10:45 AM – 10:50 AM	Relevance of the Conference
40 50 484 40 55 484	Dr A. K. Singh , Director IARI, India
10:50 AM- 10:55 AM	Special Address Dr S.K.Malhotra, Agriculture Commissioner, Department of Agriculture,
	Cooperation & Farmers Welfare, Ministry of Agriculture and Farmers Welfare,
	India
10:55 AM - 11:00 AM	Special Address
	Prof Julie Owens(Virtual), Deputy Vice-Chancellor Research and Alfred Deakin
	Professor, Deakin University, Australia
11:00 AM- 11:05 AM	Special Address
	Prof Bas Baskaran(Virtual), Pro Vice Chancellor International Research
	Partnerships, Deakin University, Australia
11:05 AM- 11:10 AM	Chief Guest
	Mr Mathew Johnston, Minister-Counsellor (Education & Research) for South Asia, Australian High Commission, India
11:10 AM- 11:15 AM	Special Address
11.10/11/1 11.13/11/1	Mr Rakesh Daultabad, MLA, Chairman of Haryana Agro Industries
	Corporation, India
11:15 AM – 11:20 AM	Dr Rashmi Sharma, Department of Science & Technology, Technology
	Bhawan, India
11:20 AM – 11:25 AM	Special Address
	Mr. Kanwal Singh Chauhan, Padma Shri Awardee, Haryana, India
11:25 AM – 11:30 AM	Vote of Thanks
	Dr Pushplata Singh, Director, TDNBC, TERI, Gurugram, Haryana India

*To be confirmed

11:30 AM – 12:00 AM HIGH TEA





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Venue: TERI-Deakin Nanobiotechnology Centre, TERI, Gurugram, Haryana, India

12:00 PM – 02:10 PM	Session II – Smart Delivery, Sensing and Precision Engineering
	Chair: Prof H.B. Bohidar, TDNBC, TERI, Gurugram, Haryana, India
	porteur : Dr Rita Choudhary, TDNBC, TERI, Gurugram, Haryana, India
12:00 PM – 12:15 PM	Nanomaterials for enhanced photosynthesis, drought tolerance and plant
	protection
	Prof David Cahill, Personal Chair, Deakin University, Australia
12:15 PM – 12:30 PM	Nanopolymers for agri-input delivery: advances and future outlook
	Dr Dhruba Jyoti Sarkar, Scientist, ICAR-Central Inland Fisheries
	Research Institute, Kolkata, India
12:30 PM – 12:45 PM	Development Of Doped Calcium Phosphate Nanofertilizers: From the
	Chemical Bench to Field Tests
12:45 PM – 01:00 PM	Prof Norberto Masciocchi, Università Degli Studi dell'Insubria, Italy Production And Utilization of Nanocellulose and Nanochitosan for Edible
12:45 PIVI — U1:00 PIVI	Coating
	Dr Erwann Guénin, Professor, Université de Technologie de Compiègne,
	ESCOM, France
01:00 PM - 01:15 PM	Nanomaterials and nanotechnology – enabling technology for a sustainable
	agriculture future
	Dr Lingxue Kong, Professor, Institute of Frontier Materials, Deakin University,
	Australia
01:15 PM – 01:30 PM	Developing Nano-Delivery Systems for Agriculture and Food Applications
	Prof Neena Mitter, Director, Centre for Horticultural Science at Queensland Alliance for Agriculture and Food Innovation, University of Queensland, Australia
01:30 PM – 01:45 PM	Sensing makes Sense using Al and Nano-range Sensors for Precision
01.30 FIVI — 01.43 FIVI	Agriculture
	Dr Arun Banerjee, Team Lead, Reliance Industries Limited, Mumbai, India
01:45 PM - 02:00 PM	Development of an intelligent geo-spatio temporal decision platform for
	farmer collectives
	Dr Sarabjot Singh Anand, Co-founder and Chief Data Scientist, TATRAS, New
	Delhi, India
02:00 PM – 02:10 PM	Delivery Systems for agrochemicals
Panel Discussion	Panellist: Shri Sagar Kaushik, UPL Limited, Mumbai, India, Dr Manoj Varma, Indian Institute of Science, Bangalore, India, India and Speakers from the
	Session
	Moderator: Dr Shruti Shukla, TDNBC, TERI, Gurugram, Haryana, India
02:10 PM - 03:00 PM	LUNCH
03:00 PM – 04:25 PM	Session III: Perceptions amongst farmers, Industries and Field Trials
Chair: Dr Mandira Kochar, TDNBC, TERI, Gurugram, Haryana, India Rapporteur: Dr Palash K Manna, TDNBC, TERI, Gurugram, Haryana, India	
03:00 PM – 03:15 PM	Bio-Agriculture in India-An industry perspective
	Shri Dhananjay Edakhe, Senior VP-Sales & Marketing (Agri Solutions),
	Zydex Industries, Pune, India





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	eakiii Nanobioteeiinology Centre, Eki, Gurugrani, Haryana, india
03:15 PM – 03:30 PM	Carbon based agriculture nano-technologies- regulatory limitations and ways to overcome Dr P S Vijayakumar, Scientist, INST, Mohali, India
03:30 PM – 03:45 PM	Dr Anand Gole, GM R&D - Fertilizers & Speciality Nutrients, Coromandel International Limited, Secunderabad, Telengana, India
03:45 PM – 04:00 PM	Dr Naresh Prasad, Deputy General Manager, Chambal Fertilizers & Chemicals Limited, Ghaziabad, India
04:00 PM – 04:15 PM	Inspirational talk for agricultural community Mr Kanwal Singh Chauhan, Padma Shri Awardee, Haryana, India
04:15 PM – 04:25 PM Panel Discussion	Perceptions amongst farmers, Industry and Field Trials Panellists: Dr Jim Rookes, Deakin, Australia; Dr Sandeep Lal, IARI, Ms Nidhi Mathur, Investment Professional (Venture Capital), Axilor Ventures, Pvt Ltd, Bengaluru, India; Mr Vipin Saini, CEO-BASAI, Haryana, INDIA Speakers from the Session Moderator: Dr Palash K Manna, TDNBC, TERI, Gurugram, Haryana, India
04:30 PM – 05:30 PM	Oral presentations by young researchers with Award (8 selected presentations)
Each Presenter will get 5 mins to present in 3 slides each followed by a 3 mins discussion	 Preparation and characterization of nanolignins: towards supports for nanocatalysts- Mr Zhao Zhang, Université de Technologie de Compiègne, France Investigation for eco-safety and transformation of potential Phosphorus based nanofertilisers by using Caenorhabditis elegans as a terrestrial model- Ms. Ayushi Priyam, TDNBC,TERI, Gurugram, Haryana, India Zinc Nano- fertilization enhances wheat grain yield and zinc concentration-Dr Achchhelal Yadav, ICAR-Indian Agricultural Research Institute, Delhi, India Effect of galvanotaxic graphene oxide on chloroplast activity: Interaction quantified with Biolayer-Interferometry coupled confocal microscopy-Ms Bandana Kumari, Institute of Nano Science and Technology, Punjab, India Synthesis of Nano-zeolites as delivery vehicles for nutrients- Ms Ashita Anand, TDNBC, TERI,Gurugram, Haryana, India Nanomaze Lure: Pheromone Sandwich in Graphene OxideInterlayers for Sustainable Targeted Pest Control- Ms Mahima Chandel, Institute of Nano Science and Technology, Punjab, India Influence of essential oils on xanthan gum-based nano-formulated edible film- Mr Nishant Kumar, NIFTEM, Haryana, India Self- readable Metal Organic Framework based Immuno-probe for detection of Aflatoxin B1-Ms Rashi, Amity University, Uttar Pradesh, India

06:00 PM onwards

Cocktail & Networking and Banquet Dinner at Retreat Lawns (TERI Gram)





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Day 2	9 th December 2021	
09:30 AM - 11:40 AM	Session IV – Regulatory Aspects of Nanotechnology	
Chair: D	Or Pushplata Singh, TDNBC, TERI, Gurugram, Haryana, India	
Rapporte	eur: Dr Leena Johny, TDNBC, TERI, Gurugram, Haryana, India	
09:30 AM - 09:45 AM	Overview of recent Nanosafety activities for industry in Thailand	
	Dr Waluree Thongkam, Director, Nanosafety Alliance Department, National	
	Nanotechnology Center (NANOTEC), Thailand	
09:45 AM – 10:00 AM	Functional Foods and Advances in Nano Delivery Systems	
	Dr C. Anandharamakrishnan, Director, National Institute of Food Technology,	
	Entrepreneurship & Management (NIFTEM), Thanjavur, India	
10:00 AM – 10:15 AM	Nanopesticides: Regulatory Evaluation of Environmental Risks	
	Dr Rai S. Kookana, Chief Research Scientist, Commonwealth Scientific and	
	Industrial Research Organisation (CSIRO), Australia	
10:15 AM – 10:30 AM	Is there a flip side of Nano? How to limit it?	
	Prof Amit K Dinda, Professor and Chief Coordinator, Centre for Medical	
	Innovation and Entrepreneurship, AIIMS, Delhi, India	
10:30 AM – 10:45 AM	Sustainable Nano fertilizers: A "Lab to field" Approach	
	Prof Amitava Mukherjee, Director, Centre for Nanobiotechnology (CNBT),	
10.45 ANA 11.00 ANA	VIT, Vellore, India	
10:45 AM – 11:00 AM	'Nano Regulations' - DST Initiatives	
	Dr Namrata Pathak, Associate Head and Scientist, Technology Mission Division (Nano Mission), Department of Science & Technology, New Delhi,	
	India	
11:00 AM – 11:15 AM	Effective Co-creation Methods for Developing Nanotechnology Applications	
11.00 AW 11.13 AW	Dr Paul Wright, FIUPAC FACTRA	
	Associate Professor in Toxicology and Head of RMIT Nanosafety Research	
	Group, School of Health and Biomedical Sciences, RMIT University,	
	Melbourne, Australia	
	Co-chair of the Asia Nano Forum (ANF) Working Group on Nanosafety & Risk	
	Management	
	President of the Australasian College of Toxicology and Risk Assessment	
11:15 AM – 11:30 AM	Interdisciplinary Complexities of implementing Nano Agri-input regulations in	
	Agriculture	
	Mr Vipin Saini, CEO-BASAI, Haryana, India	
11:30 AM – 11:40 AM	Regulatory Aspects of Nanotechnology	
Panel discussion	Panellists: Dr Richard Williams, Associate Professor, Deakin University,	
	Australia; Mr A. Kulandaivel, Rallies India Limited, Dr Dhruba Jyoti Sarkar,	
	Scientist, ICAR-Central Inland Fisheries Research Institute; Speakers from the Session	
	Moderator: Dr Aaron Schultz, Deakin University, Australia	
moderate. For Automobilate, Dealth offiveroity, Australia		
11:40 AM – 12:00 PM	Tea Break	





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12:00 PM – 01:15 PM	Session V – Advances in seed treatment
Cha	air : Dr Arvind Kapur, MD, ACSEN HIVEG, Pvt Ltd, Haryana, India
Rapp	orteur: Dr Suneeti Singh, TDNBC, TERI, Gurugram, Haryana, India
12:00 PM – 12:15 PM	Overview of Engineered Nanomaterials for Seed Quality Enhancement
	Dr Udaya Bhaskar K., Senior Scientist, Seed Science and Technology, ICAR ,
	MAU, India
12:15 PM – 12:30 PM	Biopolymer- Based Nanofiber Seed Coatings
	Dr Sandeep Lal, Principal Scientist, Seed Division, IARI, New Delhi, India
12:30 PM – 12:45 PM	Integrating Nanotechnology in Seed Treatment
	Mrs Ranita Das, Chief Technical Officer-International Business, Geolife
42.45.54.04.00.544	Agritech India Pvt. Ltd., Maharashtra, India
12:45 PM - 01:00 PM	Scope of Nano technology in Seed Enhancement
01.00 DNA 01.15 DNA	Dr Manish Patel, Executive Director, Incotec India Pvt Ltd., Gujarat, India
01:00 PM – 01:15 PM Panel Discussion	Advances in seed treatment Panellists: Dr Gunjan Mukherjee, Additional Director, Institute of
ratiei Discussion	Biotechnology, Chandigarh University and Speakers from the Session
	Moderator: Dr Rita Choudhary, TDNBC, TERI, Gurugram, Haryana, India
01:15 PM – 02:15 PM	Lunch
2:15 PM – 3:25 PM	Session VI – Bio derived nano-Agri input products
	Chair : Prof Colin Barrow, Deakin University, Australia
Rapporteur:	Dr Amritpreet Minhas, TDNBC, TERI, Gurugram, Haryana, India
2:15 PM – 2:30 PM	Increase Agricultural Productivity Without Chemical Fertilizers / Pesticides,
	by Boosting Photosynthesis Using a Package of Foliar Nano Nutrients
	Dr T. Rangarajan, Technical Director, Nualgi Nanobiotech, Bengaluru, India
2:30 PM – 2:45 PM	Bio derived materials for sustainable agriculture, food safety and Human
	Health Dr. Shruti Shukla, Sonior Scientist, TDNBC, TEBI, Gurugram, Harvana, India
2.45 PM – 3.00 PM	Dr Shruti Shukla, Senior Scientist, TDNBC, TERI , Gurugram, Haryana, India Utilising Nature Biodiversity for the Development of High-Value
2.45 PIVI - 5.00 PIVI	Bioproducts
	Dioproducts
	Dr Munish Puri Deputy-Director CMRD College of Medicine and Public
	Dr Munish Puri, Deputy-Director CMBD, College of Medicine and Public Health, Flinders University, Australia
3:15 PM – 3:25 PM	Health, Flinders University, Australia
3:15 PM – 3:25 PM Panel Discussion	, , ,
	Health, Flinders University, Australia Bio Derived Nano-Agri Inputs Products
	Health, Flinders University, Australia Bio Derived Nano-Agri Inputs Products Panellists: Mr Dhirendra Kumar, Director of Research and Development,
	Health, Flinders University, Australia Bio Derived Nano-Agri Inputs Products Panellists: Mr Dhirendra Kumar, Director of Research and Development, Natural Plant Protection Limited, Bangalore, Speakers from the Session
	Health, Flinders University, Australia Bio Derived Nano-Agri Inputs Products Panellists: Mr Dhirendra Kumar, Director of Research and Development, Natural Plant Protection Limited, Bangalore, Speakers from the Session Moderator: Dr Mukul Kumar Dubey, Associate Fellow, TDNBC, TERI,
Panel Discussion	Health, Flinders University, Australia Bio Derived Nano-Agri Inputs Products Panellists: Mr Dhirendra Kumar, Director of Research and Development, Natural Plant Protection Limited, Bangalore, Speakers from the Session Moderator: Dr Mukul Kumar Dubey, Associate Fellow, TDNBC, TERI, Gurugram, Haryana, India
Panel Discussion	Health, Flinders University, Australia Bio Derived Nano-Agri Inputs Products Panellists: Mr Dhirendra Kumar, Director of Research and Development, Natural Plant Protection Limited, Bangalore, Speakers from the Session Moderator: Dr Mukul Kumar Dubey, Associate Fellow, TDNBC, TERI, Gurugram, Haryana, India Poster Pitch Presentations By Young Researchers With Award (3 + 2mins; 13
Panel Discussion 03:30 PM – 04:30 PM	Health, Flinders University, Australia Bio Derived Nano-Agri Inputs Products Panellists: Mr Dhirendra Kumar, Director of Research and Development, Natural Plant Protection Limited, Bangalore, Speakers from the Session Moderator: Dr Mukul Kumar Dubey, Associate Fellow, TDNBC, TERI, Gurugram, Haryana, India Poster Pitch Presentations By Young Researchers With Award (3 + 2mins; 13 selected posters)





5th Annual International Conference-NANOFORAGRI 2021 Innovations for Future

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application-Ms Arshi Gupta, TDNBC, TERI, Gurugram, Haryana, India Biodegradation of Fluoroquinolone antibiotics in wastewater by enzymatic treatment with fungal laccase immobilized on magnetic nanoparticles- Ms Purvi Mathur, TDNBC, TERI, Gurugram, Haryana, India Nano priming of seeds for biotic and abiotic stress management in wheat: Review- Dr Umesh R. Kamble, ICAR, Haryana, India Endophytic Aspergillus terreus mediated gold nanoparticle: its antimicrobial activity against phytopathogens Fusarium oxysporum and Rhizoctonia solani- Mr Rahul Chandra Mishra, TDNBC, TERI, Gurugram, Haryana, India Fractionation and characterization of rice straw for conversion to agrobased products- Ms Prabhpreet Kaur, TDNBC, TERI, Gurugram, Haryana, India Behavior of Agriculturally Relevant Iron-Based Nanomaterials in Marine Ecosystem-Ms Natasha Yadav, TDNBC, TERI, Gurugram, Haryana, India Inhibitory effect of sulfur nanoparticles against fungal disease (Early Blight)-Ms Anamika Pal, TDNBC, TERI, Gurugram, Haryana, India Production of Biodegradable plastic/polymer by bacteria- Ms Aksha Dhawan, TDNBC, TERI, Gurugram, Haryana, India Biologically derived nano boron-Ms Drishti, TDNBC, TERI, Gurugram, Haryana, India Lifecycle analysis of Phosphorus based nanomaterials in marine environment- Mr Anurag Nath, TDNBC, TERI, Gurugram, Haryana, India Lifecycle analysis of Phosphorus based nanomaterials in marine environment- Mr Anurag Nath, TDNBC, TERI, Gurugram, Haryana, India Culmination of NanoforAgri Prof Ha Bohidar, Senior Scientist, TDNBC, TERI, Gurugram Haryana, India Odia Prof Amit Dinda, AlIMS, Delhi, India Dr Pushplata Singh, Director, TDNBC, TERI, Gurugram Haryana, India Odia Prof Amit Dinda, AlIMS, Delhi, India Dr Pushplata Singh, Director, TDNBC, TERI, Gurugram Haryana, India Ofice of Thanks - Dr Palash K. Manna, Senior Scientist, TDNBC, TERI, Gurugram, Haryana, India	Venue: TERI-Dea	kin Nanobiotechnology Centre, TERI, Gurugram, Haryana, India
05:00 PM – 05:15 PM Presentation of Awards for Best Oral and Poster presentation Prof H. B. Bohidar, Prof Amit Dinda, Dr Pushplata Singh, Dr Pallavolu Maheswara Reddy Vote of Thanks -Dr Palash K. Manna, Senior Scientist, TDNBC, TERI, Gurugram, Haryana, India		 application-Ms Arshi Gupta, TDNBC, TERI, Gurugram, Haryana, India Biodegradation of Fluoroquinolone antibiotics in wastewater by enzymatic treatment with fungal laccase immobilized on magnetic nanoparticles- Ms Purvi Mathur, TDNBC, TERI, Gurugram, Haryana, India Nano priming of seeds for biotic and abiotic stress management in wheat: Review- Dr Umesh R. Kamble, ICAR, Haryana, India Endophytic Aspergillus terreus mediated gold nanoparticle: its antimicrobial activity against phytopathogens Fusarium oxysporum and Rhizoctonia solani- Mr Rahul Chandra Mishra, TDNBC, TERI, Gurugram, Haryana, India Fractionation and characterization of rice straw for conversion to agrobased products- Ms Prabhpreet Kaur, TDNBC, TERI, Gurugram, Haryana, India Behavior of Agriculturally Relevant Iron-Based Nanomaterials in Marine Ecosystem-Ms Natasha Yadav, TDNBC, TERI, Gurugram, Haryana, India Inhibitory effect of sulfur nanoparticles against fungal disease (Early Blight)-Ms Anamika Pal, TDNBC, TERI, Gurugram, Haryana, India Production of Biodegradable plastic/polymer by bacteria- Ms Aksha Dhawan, TDNBC, TERI, Gurugram, Haryana, India Biologically derived nano boron-Ms Drishti, TDNBC, TERI, Gurugram, Haryana, India Lifecycle analysis of Phosphorus based nanomaterials in marine environment- Mr Anurag Nath, TDNBC, TERI, Gurugram, Haryana, India Pretreatment Methodologies for the efficient extraction of cellulose from rice straw- Ms Neha Sharma, TDNBC, TERI, Gurugram, Haryana, India Molybdenum disulphide nanosheets for enhancing photosynthesis inagricultural crops- Ms Chanchal Mony, TDNBC, TERI, Gurugram, Haryana, India Culmination of NanoforAgri Prof H B Bohidar, Senior Scientist, TDNBC, TERI, Gurugram Haryana, India
Presentation of Awards for Best Oral and Poster presentation Prof H. B. Bohidar, Prof Amit Dinda, Dr Pushplata Singh, Dr Pallavolu Maheswara Reddy Vote of Thanks -Dr Palash K. Manna, Senior Scientist, TDNBC, TERI, Gurugram, Haryana, India		Dr Pushplata Singh, Director, TDNBC, TERI, Gurugram Haryana, India
Presentation of Awards for Best Oral and Poster presentation Prof H. B. Bohidar, Prof Amit Dinda, Dr Pushplata Singh, Dr Pallavolu Maheswara Reddy Vote of Thanks -Dr Palash K. Manna, Senior Scientist, TDNBC, TERI, Gurugram, Haryana, India	05:00 PM – 05:15 PM	VALEDICTORY SESSION
Prof H. B. Bohidar, Prof Amit Dinda, Dr Pushplata Singh, Dr Pallavolu Maheswara Reddy Vote of Thanks -Dr Palash K. Manna, Senior Scientist, TDNBC, TERI, Gurugram, Haryana, India		
Vote of Thanks -Dr Palash K. Manna, Senior Scientist, TDNBC, TERI, Gurugram, Haryana, India		Prof H. B. Bohidar, Prof Amit Dinda, Dr Pushplata Singh,
Gurugram, Haryana, India		
05:15 PM - 05:30 PM High Tea		
	05:15 PM - 05:30 PM	High Tea