



TECHNOLOGICAL ECO-INNOVATIONS FOR THE QUALITY CONTROL AND THE DECONTAMINATION OF POLLUTED WATERS AND SOILS

FIRST NETWORKING CONFERENCE

NEW DELHI, 16 AND 17 NOVEMBER 2016

GULMOHAR HALL, INDIA HABITAT CENTRE

PROGRAMME



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Project co-funded by the European Union



This publication has been produced with the assistance of the European Union.
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Photos by Serena Carloni



TECO First Networking Conference aims at creating new research and business networks and to support the existing ones, with the common goal to work together for a better Environment.

The event is co-funded by the European Union, Delegation of the European Union to India, jointly organized by Italian National Research Council (CNR) and National Environmental Engineering Research Institute (NEERI-CSIR) and supported by the Italian Embassy in New Delhi.

Representatives of public bodies and private companies, researchers, engineers, innovators and managers interested in starting up new Indo-European initiatives in the field of water and soil resources will participate to the conference.

TECO First Networking Conference is:

- ✓ An opportunity to boost research and innovation collaboration between EU and India in the field of environmental sciences applied to the decontamination of polluted waters and soils
- ✓ An hub to stimulate new opportunities for the private sector to deliver appropriate innovations which are able to provide solutions for local contexts even through a reinforced link between research and public institutions
- ✓ An open discussion to enforce the collaboration between a network of people with the same goals of preservation of water and soil resources in a social vision

The first TECO Networking Conference represents a significant event to gather and discuss the outcomes of TECO project so far and an opportunity for all the participants to open up towards new collaborations and to reinforce the current partnerships.

Enjoy the Conference!

TECO Team



PROGRAMME OVERVIEW

16 November

Opening Session	09:30 - 10:30
EU Perspectives	11:00 - 12:00
Inauguration of Indo-Italian Research Hub	12:00 - 12:10
Introductory Session	12:10 - 12:30
TECO Session	13:30 - 15:00
Challenge Session	15:30 – 17:30

17 November

Remediation Technology Session	09:00 - 11:00
Nature-Based Technology Session	11:30 - 13:00
Sensing Technology Session	14:00 – 15:30
Discussion Session	16:00 - 17:00
Closing Session	17:00 – 17:30



16 NOVEMBER

09:00 – 09:30 REGISTRATION

09:30 – 10:30 OPENING SESSION

- **Luigi Estero**, *Vice Ambassador of Italy in India*
- **Rajiv Kumar**, *Indo-Italian Bilateral Programmes in DST*
Opportunities for Indo-Italian Joint Collaboration
- **Vivek Dham**, *European Union Delegation to India*
EU Research & Innovation collaboration with India
- **Massimo Spadoni**, *Scientific Attaché Embassy of Italy*
- **Anuradha Madhukar**, *CSIR Research Project Planning and Business Development Directorate*
CSIR – A Global R&D Platform for the Most Vibrant International Partnership Opportunities in India
- **Pawan Labhasetwar**, *Head Water Division National Environmental Engineering Institute (NEERI-CSIR)*
- **Angelo Massacci**, *Director Institute of Agro-environmental and Forest Biology (IBAF-CNR)*

10:30 – 11:00 TEA BREAK

11:00 – 12:00 EU PERSPECTIVES

- **Inger Midtkandal**, *Norwegian Embassy New Delhi, Science and Technology Counsellor*
Indo-Norwegian collaboration Research, Education and Innovation
- **Stephan Lanzinger**, *German Embassy New Delhi, Head of Science and Technology Section*
Role & Activities of German Research Organizations in India
- **Roman Mazanec**, *Scientific attaché, Embassy of Slovak Republic*
- **Srini Kaveri**, *CNRS Delegation to India, France*

12:00 – 12:10 INAUGURATION OF INDO-ITALIAN RESEARCH HUB

- **Serena Carloni**, *CNR-IGAG, Italy*
Indo-Italian Research: an Hub to take off

12:10 – 12:30 INTRODUCTORY SESSION

- **Massimo Zacchini**, *TECO Project Coordinator Italian Side, CNR-IBAF, Italy*
- **Paras Pujari**, *TECO Project Coordinator Indian Side, CSIR-NEERI, India*
The TECO Project: the way forward

12:30 – 13:30 LUNCH BREAK

13:30 – 15:00 TECO SESSION

Chairman: Massimo Zacchini, *CNR-IBAF, Italy*

- **Laura Passatore**, *CNR-IBAF, Italy*
One year of TECO mobility
- **Alexander Lux**, *Comenius University in Bratislava, Slovak Republic*
Phytoremediation and Silicon Application may help in Environmental Restoration of Polluted Soils
- **Patrizio Arrigo**, *CNR-ISMAR, Italy*
Identification of epitranscriptomicsignatures related with long term exposure to chemical pollutants
- **Carolina Agnello**, *Université Paris-Est, Marne-la-Vallée, France*
Impact of pyrometallurgical slags on sunflower growth, metal accumulation and rhizosphere microbial communities
- **Giancarlo Cammerini**, *Producer and filmmaker, Italy*
Sacred Waters, Polluting Sins

15:00 – 15:30 TEA BREAK

15:30 – 17:30 CHALLENGE SESSION

Chairman: Paras Pujari, *CSIR-NEERI, India*

- **Atul N. Vaidya**, *CSIR-NEERI, India*
Approach to Remediation of Contaminated Sites
- **Angelo Massacci**, *CNR-IBAF, Italy*
Challenging for technology transfer from the research to the market
- **Pawan Labhasetwar**, *CSIR-NEERI, India*
Addressing issues related to geogenic contaminants in Punjab, India: Solution Conundrum
- **P.C. Abhilash**, *Banaras Hindu University, India*
Restoring Degraded Lands in India: Challenges and Perspectives
- **Andrea Sconocchia**, *ARPA Umbria, Italy*
Management of Contaminated Sites in Europe
- **Yeswaant Babarao Sontakke**, *Maharashtra Pollution Control Board, India*
Groundwater Contamination & Remediation in Maharashtra, India



17 NOVEMBER

09:00 – 11:00 REMEDIATION TECHNOLOGY SESSION

Chairman: Pawan Labhassetwar, CSIR-NEERI, India

- **Jaydeep Sathaye**, ERM, Gurgaon, India
Hexavalent Chromium Assessment & Remediation Design - Case Study
- **Padmanabhan Girinathannair**, ERM, Bangalore, India
Voluntary Remedy of Chlorinated Hydrocarbon Impacted Soil and Groundwater
- **Merlyn Thandu**, University of Udine, Italy and BITS Pilani Goa Campus, India
Photodynamic inactivation for water treatment: a sustainable method towards clean water
- **Barbara Casentini**, CNR-IRSA, Italy
Improved safe management of arsenic-rich waste generated from arsenic removal plant
- **Rama Mohan Kurakalva**, CSIR-NGRI, India
In-situ chemical oxidation (ISCO) technology for remediation of pesticide contaminated soil and groundwater
- **Rohit Kumar**, Tesla Innovations Ltd, India
CETP: A New Approach using Advanced Technologies and Automation

11:00 – 11:30 TEA BREAK

11:30 – 13:00 NATURE-BASED TECHNOLOGY SESSION

Chairman: Andrea Sconocchia, ARPA Umbria, Italy

- **Dinesh Mohan**, Jawaharlal Nehru University, India
SMART Biochar - an environmentally sustainable means in removing water contaminants or soil immobilization
- **Massimo Zacchini**, CNR-IBAF, Italy
Biological processes and methodologies to identify useful traits and methodologies for the selection of plants with improved phytoremediation ability
- **Elango Lakshmanan**, Anna University Chennai, India
Assessment of impact of climate change on water resources in a coastal aquifer by finite element modelling
- **Ilaria Mazzini**, CNR-IGAG, Italy
The dual role of ostracods in polluted sites: sentinels of anthropogenic impacts and bioassays animals
- **Sudhir Kumar**, National Institute of Hydrology, India
Application of isotopes in hydrological studies with special reference to water quality

- **Cristina Avila**, Universitat Politècnica de Catalunya-BarcelonaTech, Spain
SWINGS project: Safeguarding water resources in India with green and sustainable technologies

13:00 – 14:00 LUNCH BREAK

14:00 – 15:30 SENSING TECHNOLOGY SESSION

Chairman: Roberto Pilloton, CNR-IIA, Italy

- **Roberto Pilloton**, CNR-IIA, Italy
Electrochemical Biosensors as a Tool for Environmental Analysis
- **Sunil Bhand**, BITS Pilani Goa Campus, India
Miniaturized sensor for monitoring antibiotic residues in water
- **Jagriti Narang**, Amity University Noida, India
Development of an ultrasensitive technique for determination of date rape grapes
- **Chaitali Singhal**, Amity University Noida, India
A low cost portable genosensor for detection of Dengue virus infection
- **Subbiah Alwarappan**, CSIR-CECRI, India
Towards the development of novel nano-architectures for biosensing applications

15:30 – 16:00 TEA BREAK

16:00 – 17:00 DISCUSSION SESSION

Moderator: Elango Lakshmanan, Anna University Chennai, India

17:00 – 17:30 CLOSING SESSION

- **Massimo Zacchini**, CNR-IBAF, Italy
- **Paras Pujari**, CSIR-NEERI, India
- **Massimo Spadoni**, Scientific Attaché Embassy of Italy