



ROW / SOA Environmental Workshop and Site visits, April 25-26, 2025

Location: Siksha O Anusandhan dtb University, Bhubaneswar, Odisha



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Topics for Discussion Environmental Workshop Bhubaneswar, Odisha April 25-26, 2024



The Rivers of the World (ROW) team (left column) -Subijoy Dutta, Prof. Bala Prasad, Dr. Sarat Sahu, Dr. Anup Samantaray, and Prof. Anil Kar will provide an interactive workshop on:

- ◆ No Life without Water
- ◆ Protecting Water/Life
- ◆ Water testing/Monitoring
- ◆ Water and Wastewater
- ◆ Climate Change Issues
- ◆ Flooding Issues and Management
- ◆ Any Research projects
- ◆ Questions & Answers

Typical Student Qs

- How to conduct –
 - Water Monitoring
 - Research projects++

Students Follow up

*Our Vision ...
Clean and Vibrant Waters
Connected Communities
Eco-sustainable Development*



**Rivers of the World
FOUNDATION**

Mending Our Water Ways

**A NON-PROFIT ORGANIZATION
DEDICATED TO
PROTECTING AND RESTORING**

This workshop by the Rivers of the World (ROW) Foundation, USA, in collaboration with the Siksha O Anusandhan (SOA) deemed to be (dtb) University, Bhubaneswar, Odisha, will include a comprehensive training in water, waste management, and climate change areas. It should provide ideas and incentives for the new and upcoming professionals to begin a few hands-on practices to protect their rivers, water, and communities from the impacts of climatic disasters. The classroom (in-person) training workshop on April 25th, Day 1 will be followed by a site visit to impacted rivers/water bodies and water quality testing of TDS, pH, Conductivity, and Dissolved Oxygen (DO) on April 26th, Saturday.

Interactions between the local organizations, NGOs, SOA University students, faculty members and the experts from US, and India is expected to provide an interactive learning environment for all. This workshop will be covering the latest science and local knowledge/practices.

For the final program and registration, you can send email to rowfoundation@gmail.com . You can also contact Dr./Prof. Anup Samantaray at dean.ibcs@soa.ac.in and/or send email to Prof. S.C. Sahu at director.cec@soa.ac.in

Tentative Agenda

Day 1 (April 25, 2025, Friday) (9:30 AM – 5:30 PM)

- 1. Introduction & Scope (0.5 hr.)**
 - a. Opening Remarks (VC/Dean SOA)
 - b. Introduction (TBA)
 - c. Overview of the training (Subijoy Dutta, P.E.) – Brief Summary
- 2. Improved Water Management Using Low Impact Designs**
 - a. Prof. William E. Roper, President, ROW Foundation (Virtual from Washington, DC Area)
- 3. Climate Change (2.0 hrs.)**
 - a. Climate Change and Early Warning System (Dr. S.C. Sahu)
 - b. Global impacts of Climate Change – Building resilience, involving communities and monitoring Himalayan Glaciers (Subijoy Dutta, P.E.)
 - c. Q&A

Break - 10 minutes
- 4. Water and Wastewater – Proper use and treatment for a healthy living (1 hr.)**
 - a. Prof. Bala Prasad, Andhra University, Visakhapatnam
 - b. Q&A
- 5. Lunch (1 – 2 PM)**
- 6. Comprehensive Waste Management for a Healthy Living**
 - a. MSW - Options for treating/Disposal of MSW (Subijoy (Dutta, P.E.)
 - b. Q&A
- 7. Community Engagement for a Comprehensive Waste Management (30 min.)**
 - a. Engaging with Communities – Awareness Program – Award winning village – Gokul, U.P following UN World Water Day (2024) – case study (Subijoy Dutta, P.E. And Local Team leader, Odisha)
 - b. Q&A
- 8. Flooding Issues and Management (30 min.)**
 - a. The role of wetlands and swamps in mitigating Urban flooding issues (Prof. Anil Kar, VSSUT, Sambalpur, Odisha)
 - b. Q&A
- 9. Wrap-up, Evaluation and Feedback (1 hr.)**

Wrap-up
Evaluation of Participants (multiple choice Qs)
Short Feedback from the participants
Certificates Presentation to Successful Participants from 2024

10. Valediction

Day 2 (April 26, 2025, Saturday)

Visits to River Sites – Daya, Rushikulya, Brahmani and/or Others (10:00 AM – 2:00 PM)

- 1. Plan for the specific areas to be visited - 9:30 AM**

Finalize Rivers, locations with local coordinators + SOA – Activities:

Water Testing and evaluating health of the water bodies, visiting with local people to listen to their concerns, comments, and willingness to help; Conduct field tests – pH, Conductivity, TDS, Turbidity, and Dissolved Oxygen levels of the water bodies around Bhubaneswar.

Details on the Proposed Workshop

This course should provide answers to many of the above items for the participants. This should have a direct benefit in their knowledge and understanding of environmental problems, issues, and possible remedies. At the end of the training on Day 1, participants will have an evaluation to confirm their learning and comprehension of the specific subject area of their interest by responding to a few multiple-choice questions. Upon successful completion of the program, the participant should have a clear understanding of the following –

A. General -

- Appropriate scientific rules and methods adopted to solve problems.
- The logic and reasoning used to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.
- Technical sentences and paragraphs in professional documents.
- Verbal communication to convey information effectively
- Active listening with full attention to what other people are saying, taking time to understand the points made.
- Basics of – Climate change issues, Municipal Solid Waste management, Alternative Energy, Community interaction, Path to human wellbeing and environmental education/awareness.

B. Water and Environment

- Municipal Waste Management –
 - Door to Door Collection, segregation at source, composting, waste to energy alternatives, and possible funding sources/agencies.
- Water and Wastewater
 - What does clean water mean from the human health perspective? What we need to do for safe management/treatment of wastewater to live a healthy life and to safeguard our water resources for the future generations.
 - Solar, Wind, and other alternatives
- Engaging with communities

- How to engage with the communities and work towards a comprehensive waste management plan involving the local communities.
- Ideas to begin such practices from the case studies included in the training seminar and follow up by visiting sites with NGOs and local coordinators.