

ROW Foundation Training Seminar in Bhubaneswar, Odisha, Feb 7-8, 2017

Location: Sikshya O Anusandhan University, Bhubaneswar, Odisha

This 2-day seminar by the Rivers of the World (ROW) Foundation (USA) will cover a comprehensive training in water and renewable energy area. It should provide ideas and incentives for the new and upcoming professionals to begin these hands on practice for protecting the environment and make the local town/community a keystone model for renewable energy and green environment.

The experts from US, India, will travel to Bhubaneswar to provide the training. The local organizations/NGOs and community leaders/organizations will provide the local hospitalities and facilities for the training.

For the final program and registration information please visit <http://rowfoundation.org> in a few days. You can also contact our Coordinator and the Program Chair, Mr. Prafulla Dhal in Bhubaneswar at Prafulla.dhal@gmail.com

Tentative Agenda

Day 1 (February 7, 2017) **(9:30 AM – 5:30 PM)**

1. Introduction & Scope

- a. Opening Remarks (Local - Prafulla Dhal to arrange)
- b. Introduction (Local)
- c. Overview of the training (Subijoy Dutta and Subi Subramanian)

2. Water Treatments

- a. Drinking Water (Subijoy Dutta)
- b. Wastewater Treatment - WSI (N. Krishnan)
- c. Innovative Water Treatment technologies – (Dutta)
- d. Stormwater – (Dutta)
- e. Water Quality Improvement – Testing and Monitoring – (Dutta)

3. Waste (MSW + Hazardous + Medical) Management

- a. MSW (Subijoy Dutta and Subi Subramanian)
- b. Hazardous Waste (Dutta)

Day 2 (February 8, 2017) **(9:30 AM – 5:30 PM)**

1. **Review of Day 1** (30 minutes)
2. **Renewable and Waste to Energy**
 - c. Waste to Energy (Dutta and Subramanian)
 - d. Renewable Energy (Subramanian)
3. **Climate Change**
 - e. Factors affecting Climate Change (Dutta)
 - f. Remote Sensing Technologies [Dutta and Bill Roper(support/non-attending)]
4. **Yoga/Global interfaith** (Invited Swamini – Parmarth)
 - a. Yoga (Subi Subramanian)
 - b. Health
5. **Education/Awareness**(Local Experts and Prafulla Dhal)
 - a. Women Involvement and Community Interaction
 - b. Media
 - c. WWD (World Water Day plus Similar Events)
6. **Wrap-up, Evaluation and Feedback**
7. **Valediction**

Proposed Course

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. The participants will have a verbal evaluation at the end of the training to confirm their learning and comprehension of the specific subject area of their interest. Upon successful completion of the two-day 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.

- Raise questions at right time, and not interrupting at inappropriate times.
- Basics of - water treatment systems, Municipal Solid Waste management, Alternative Energy, Path to human wellbeing and environmental education/awareness.

B. Technical (Water and Environment)

- Drinking Water Treatment technologies –
 - Natural Filtration, Riverbank Filtration, Sand Filters, Membrane Filtration, Solar Distillation, Solar pasteurization
- Wastewater Treatment technologies -
 - Standard clarifier, degradation, sludge removal system; a few other alternatives, and installations in India
 - Other innovative treatment systems – Deep Pond system, Wetland-based treatment systems, and upcoming MicroDesal Technology performance and future developments
- Storm water management alternatives – current practices
- Water Quality Testing and Monitoring – Tools and Techniques
- Municipal Waste Management –
 - Door to Door Collection, segregation at source, composting, waste to energy alternatives, and possible funding sources/agencies.
- Hazardous Waste Management –
 - Serious health impacts of hazardous wastes, need for proper management, systematic, safe handling and collection of household hazardous waste
 - Environmental treatment technologies for remediating hazardous wastes

Day 2

- Renewable and waste to Energy
 - Waste to Energy – evolving technologies towards safe conversion of waste to energy
 - Solar, Wind, and other alternatives
- Climate Change Factors

- Some relevant studies and simple local observations of sea-level/temperature rise over a period of time, trend analysis
- Remote Sensing Technologies – Hyperspectral analysis of streambeds, high-fidelity image processing by AVIRIS (NASA) and Indian ISRO for science and application research.
- Yoga –
 - Background of supreme powers of Yoga, the real practice of integrating the mind and the body to attain a sustained healthy and happy life
 - Health – how a total harmony of mind and body provides a healthy life
- Education/Awareness –
 - World water day activities involving river-bank cleanups, and other awareness practices including a seminar involving experts with full community participation
 - Interaction of new ideas and thoughts with the participants