

Venue: Riviera Suites, Thevara, Ernakulam, K



Day 1: 23rd January 2018

8.30 AM: Registration

9.00 - 9.10: Welcome and introduction to IUKWC: Dr. A.K. Sahai

9.10 – 9.20: About UEI + Structure of the workshop: Dr. Harry Dixon

Expert talks: 35mins/presenter (25 mins presentation +10 mins discussion)

Session Chairs: Dr. Harry Dixon and Dr. A.K. Sahai,

9.20 – 11.40: Session 1: Water quality: Monitoring Pollution & Treatment

9.20 – 9.55: Gopal Krishan, National Institute of Hydrology, Roorkee

Groundwater quality monitoring in northwest India

9.55 – 10.30: Gary Fones, University of Portsmouth

The use of passive sampling devices to improve the monitoring of anthropogenic pollutants in river catchments in India

10.30 – 11.05: E.V. Ramasamy, Mahatma Gandhi University, Kerala

Microplastics: An Emerging contaminant - polluting water bodies - less studied in India

----- 11.05 – 11.25 Tea Break -----

11.25 – 13.05: Session 2: Irrigation - Monitoring availability and consumption

11.25 – 12.00: K.S.H.Prasad, IIT Roorkee

Deep Percolation from Water Intensive Irrigated Crops

12.00 – 12.35: Dr. Ragab, Centre for Ecology & Hydrology

Increasing Water Use Efficiency and Productivity using new technologies

12.35 – 13.10: Mr. Sunil Kumar, National Water Academy

Emerging Concepts of Irrigation Water Management & its Suitability in Southern Indian States

----- 13.05 – 14.00: Lunch Break -----

14.10 – 15.50: Session 3: Monitoring Aquatic Ecosystems & biodiversity

14.10 – 14.40: Anas Abdulaziz National Institute of Oceanography, Kochi

Water quality of Vembanad Lake: A proposed case study using remote sensing, modeling and in situ observations

14.40 – 15.15: Andrew Tyler, Stirling University

Exploiting EO capability to monitor status and change in the quality of freshwater environments

15.15 – 15.50: Jagadish krishnaswamy, ATREE

Future of India's rivers: Challenges and Opportunities

----- 15.50 – 16.10 Tea Break -----

16.10 – 17.20: Session 4: Water provision: monitoring supply & consumption

16.10 – 16.45: Prof. Mohan Kumar, IISC

Integrated Urban Water Management

16.45 – 17.20: Andrew Mckenzie, British Geological Survey

Groundwater and water resources – UK India collaborations under the Newton Bhaba initiative.

17.20 – 18.20: Demo of SALTMED Model (visit for details: www.water4crops.org)

Dr. R. Ragab Centre for Ecology & Hydrology

Workshop dinner: Riviera Suites, 20.00 – 21.30

-----End of day 1-----

Day 2: 24th January 2018

08.30 – 08.40: Welcome & recap of Day 1

Sessions Chairs: *Dr. Ajith Joseph, Nansen Environmental Centre and Mr. Jojo, Atree*

08.40 – 10.15 Stakeholder talks: (15 min talks + 10 min discussion)

8.40 – 9.05: **Water provision sector:** Dr. C N Maheswaran, Managing Director, Tamil Nadu Water supply board

Freshwater Supply Management at State level

09.05 – 9.30: **Water quality sector:** Dr. Yashwant Sontakke, Joint Director Maharashtra Pollution Control Board

Water quality monitoring and Management

9.30 – 9.55: **Ecosystems & biodiversity:** Dr. Bijoy Nandan, Professor, Cochin University of Science and Technology

Faunal Diversity of Selected Wetlands- Status and Challenges

9.55 - 10.15: **Irrigation:** Anil Kumar Gopinath, Retd. Chief Engineer & Superintending Engineer Irrigation Dept. Govt of Kerala

Increased Water Use Efficiency for Irrigation projects in Kerala through innovative Environment friendly techniques: The need of the hour

----- 10.15 – 10.30 Tea Break -----

10.30 – 17.00: Field visit

10.30 -11.45: Depart for Vembanad Lake (Board House boat at Vembanad Lake)

12.00 – 13.00: Introduction to Vembanad Lake: Dr. Nandhini (Nansen Environmental Centre, Kochi; Dr. Grinson George, Central Marine and Fisheries research Institute, Kochi

----- 13.00- 14.00 Lunch on houseboat-----

14.00 – 15.00: Demonstration: Dr. Andrew Tyler, Stirling University

15.00 - 18.00: Talks by study area experts: Dr. Bindu, Regional Agricultural Research Station & University of Kerala; Mr Jojo, Ashoka Trust for Research in Ecology and Environment, Dr. Anas Abdulaziz, National Institute of Oceanography, Regional centre, Kochi

18.00 – 21.00: Visit to Kochi City and Workshop dinner at Grand Hotel, Kochi

-----End of day 2-----

Day 3: 25th January 2018

8.45 – 9:00: Introductions to the day and exercise

9:00 -12.00: Closed discussion: The delegates will be split into 4 groups, one for each Sector. Each contains the speakers from day 1 and 2 and the other stakeholder can choose/be allocated to the most appropriate group. The questions discussed would be:

9.00 – 10.30

1. What are the potential uses of previous UK-India joint research in the sector?
2. What would be the impact of using this new science?

15 mins for free discussion/ break

10.45 – 11.45

3. What further research is needed to enable the sector to make use of the science? What other solution would they like to see developed for the sector?
4. What is the best way to achieve the above needs (options for collaboration?)

-----11.45 – 12.00 Tea break -----

12.00 - 13:45: Panel discussion – 2 representatives from each sector group are on the rostrum (one stakeholder and one scientist). The Groups could nominate these themselves. They report back on the groups' discussion for 10 minutes with flip charts or PowerPoint slides and then the audience and other panel members can ask questions and reflect on similarities with their groups.

13.45 – 14.00 Wrap-up and conclusions: Dr. Harry Dixon

-----14.00 : Lunch -----

----- End of day 3-----