



Indo-German Workshop on Marine Sciences and Coastal Sustainability

Agenda



The picture shows a mangrove reforestation project in India.

August 20-21, 2018

Leibniz Centre for Tropical Marine Research (ZMT) GmbH Fahrenheitstraße 6, 28359 Bremen, Germany







MON 20

11:30 Arrival and Sandwich Buffet

12:00 – 12:20 Welcome and introduction by ZMT (Hildegard Westphal, Scientific Director)

12:20 – 12:45 Welcome (Shri R. Madhan - Indian Counsellor for Science & Technology & Dr. P. Madeswaran - Indian Chair of delegation, Ministry of Earth Sciences, NCCR introducing the Centre for Marine Living Resources and Ecology in Kochi)

12:45-13:45 Session 1 Coastal Zone Biogeochemistry

Individual presentations of scientists from India and Germany

(Short introduction (*approx. 5 min*) of personal experiences, research interests and collaboration ideas, expectations for future cooperation, ...)

Proposed topics include:

- Ocean Carbon cycle and Ecosystem variability Vinu Valsala, IITM
- Understanding organic carbon in estuaries and Ocean: Microbial mineralization, diversity and response to changing climatic scenario Lata Gawade, NIO/ZMT
- Carbon Dynamics and Anthropogenic Stressors in Aquatic Systems Katrin Premke, IGB
- Response of the Indian monsoon to global warming and ocean acidification Henry Wu, ZMT
- Submarine groundwater discharge: Nutrient transport into coastal waters (Kerala mud-banks) D.S. Suresh Babu, NCESS
- Submarine groundwater discharge as a potential resource and pollution pathway to coastal ecosystems Nils Moosdorf, ZMT

13:45 – 14:15 Session 2 Coastal planning – Part I

Individual presentations of scientists from India and Germany

Proposed topics include:

- Coastal Vulnerability Mapping and Risk Assessment R. S. Mahendra (INCOIS)
- Understanding microbially mediated biogeochemistry in oxygen-deficient marine ecosystems - investigations in the Arabian Sea OMZ – Klaus Jürgens, represented by David Kaiser, IOW
- Translating sea level change along high-density urban coasts Rapti Siriwardane & Anna-Katharina Hornidge, ZMT
- The use of drones in science Elisa Casella, ZMT
- Imprint of the agglomeration centre Calcutta on the Bay of Bengal via the rivers Ganges and Hooghly – David Kaiser, IOW
- Modelling Spatial Interactions in Coastal Habitats Hauke Reuter, ZMT
- Governing Land Sea Interaction Achim Schlüter, ZMT
- Community perceptions of coastal processes and sea level rise: The case of Lakshadweep, India – Himani Upadhyay, FU Berlin







14:45 – 15:15 Session 2 Coastal planning – Part II

15:15 – 16:15 **Session 3 Biodiversity/Ecosystem functioning**

Individual presentations of scientists from India and Germany

Proposed topics include:

- Address Eutrophicaton, Acidification: Mescocosm Studies K.Venkatarama Sharma, NCCR
- Spatial distribution of microbial communities and its drivers in mangrove ecosystems: a multi-strata approach combining remote-sensing, chemical and molecular ecology Véronique Helfer, ZMT
- Marine microbial diversity in the 'omics era Christiane Hassenrück, ZMT
- Indo-German Initiatives for accounting coastal aquatic ecosystem services and managing anthropogenic nitrogen P. Madeswaran, NCCR
- Deep-sea biodiversity studies in the Atlantic and Pacific Oceans Angelika Brandt, SGN
- Development of traditional agrarian societies in South-Asia under the conditions of climate change and biodiversity preservation actions – Prof. Dr. Harald Kächele – ZALF

16:15 – 16:45	Coffee break
16:45 – 17:00	Presentation on Capacity and Human Resource Development – Janine Reinhard, ZMT
17:00 – 18:00	Guided tour through ZMT's MAREE (Marine Experimental Ecology Facility)
18:00	Get-together at ZMT (including Dinner)







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09:00 – 09:40	Presentation on legal aspects, Nagoya protocol, permits, etc. – Thomas Greiber, BfN
09:40 – 10:00	Presentation on funding possibilities – Martin Goller, IB
10:00 – 10:15	Short Coffee Break
10:15 – 11:15	Discussions in "World Café" - style to identify general topics and "big challenges" for break-up in individual working groups
11:15 – 12:30	Break-up into parallel thematic workshops to address the "big challenges", e.g. 1. Coastal Zone Biogeochemistry 2. Coastal Planning 3. Biodiversity / Ecosystem functioning
12:30 – 13:30	Lunch Buffet
13:30 – 15:00	Parallel thematic workshops (continued)
15:00 – 15:15	Coffee Break
15:15 – 15:45	Presentation of results of individual working groups
15:45 – 16:00	Final remarks
16:00	End of workshop







List of participants:

Participants from Indian side:

- Indian Embassy in Berlin, Counsellor for Science & Technology
 - Shri R. Madhan, Jose Muttathu
- Indian National Centre for Ocean Information Services (INCOIS), Hyderabad
 - o R. S. Mahendra
- National Centre for Coastal Research (NCCR), Chennai
 - o Dr. P. Madeswaran, K.V. Sharma
- National Centre for Earth Science Studies (NCESS), Kerala
 - o Dr. D.S. Suresh Babu
- Indian Institute of Tropical Meteorology (IITM), Pune
 - o Dr. Vinu Valsala

Participants from German side:

- Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin
 - o Dr. Katrin Premke
- Leibniz Institute of Baltic Sea Research (IOW), Warnemünde
 - o Dr. David Kaiser, Dr. Joachim Kuss
- Leibniz Centre for Agricultural Landscape Research (ZALF), Müncheberg
 - o Prof. Dr. Harald Kächele
- Senckenberg Gesellschaft für Naturforschung (SGN), Frankfurt
 - o Prof. Dr. Angelika Brandt
- Freie Universität Berlin, Disaster Research Unit
 - o Himani Upadhyay
- International Bureau of the Ministry of Education and Research (IB)
 - o Dr. Martin Goller
- Senator for Science, Health and Consumer Protection, Bremen
 - o Dr. Heide Ahrens
- Bremen Overseas Research & Development Association, BORDA e.V.
 - o Alex Viwat Campbell & Alex Wolf
- Federal Agency for Nature Conservation (BfN)
 - o Thomas Greiber

Participants from Leibniz Centre for Tropical Marine Research (ZMT), Bremen:

- Dr. Elisa Casella
- Dr. Lata Gawade, guest scientist from NIO, Goa
- Dr. Christiane Hassenrück
- Dr. Véronique Helfer
- Prof. Dr. Anna-Katharina Hornidge
- Dr. Nils Moosdorf
- Dr. Janine Reinhard
- Dr. Hauke Reuter
- Dr. Alessio Rovere
- Prof. Dr. Achim Schlüter
- Dr. Rapti Siriwardane
- Dr. Mirta Teichberg
- Prof. Dr. Hildegard Westphal
- Dr. Henry Wu
- Prof. Dr. Martin Zimmer