



## Sustainable Urban Water and Wastewater Management – India – Germany

IGCS Summer School 2017

July 15-28, 2017

RWTH Aachen University

Germany

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**Arrival: Friday July 14, 2017**

Welcome to Aachen!

**Day One: Saturday July 15, 2017**

*LIH, Lochnerstr. 4-20, H. 1, R. 504, 503, 52064 Aachen*

09:00-09:30 **Registration and Welcome Coffee**

09:30-10:15 **Words of Welcome**

Prof Dr R. Azzam, IGCS Centre Coordinator, RWTH Aachen University

Prof Dr E. Schmachtenberg, Rector, RWTH Aachen University

Prof Dr B. Ramamurthi, Director, IIT Madras

Mr R. Madhan, Counsellor, Science and Technology, Embassy of India, Berlin

Dr F.-A. Weber, Research Institute for Water and Wastewater Management at RWTH Aachen University (FiW)

10:15-11:15 **Urban Flood Management for Chennai: Way Forward**

Prof Dr BS Murty, IGCS Centre Coordinator, IIT Madras

11:15-12:15 **Sustainable Urban Wastewater Management in India: Challenges and Way Forward**

Prof Dr Ligy Philip, IGCS Area Coordinator Waste Management, IIT Madras

12:15-13:15 **Energy Efficiency in Sewage Treatment Plants - Some Selected Case Studies from India**

Prof Dr A. A. Kazmi, IIT Rourkee

13:15-14:00 **Lunch** at LIH

14:00-15:00 **Presentation of Project Work** (FiW Experts / Dr Steinbruch)

15:00-15:30 **Formation of Project Teams**

15:30-16:00 **Organizational:**

Wifi, Databases, Schedule, Rooms

16:00-16:30 **Communicative Walk to Town Hall**

16:30-17:00 **Reception by the Mayor of Aachen, Mr Marcel Philipp, Town Hall, White Room**

**Day Two: Sunday July 16, 2017**

*LIH, Lochnerstr. 4-20, Room 503, 52064 Aachen*

09:00-10:30 **Waste, Wastewater and Society**

Prof S. Chella Rajan, IGCS Area Coordinator Land Use, Dept. of Humanities & Soc. Sciences, IITM

10:30-11:00 Coffee Break

11:00-12:30 **Water Protection and Conservation in Urban Environments**

Dr F. Steinbruch, IGCS Alumna, GIZ Advisor, Mosambique

12:30-14:00 **Lunch** at LIH

14:00-18:00 Free Time: City Tour

**Day Three: Monday July 17, 2017**

*LIH, Lochnerstr. 4-20, Room 503, 52064 Aachen*

09:00-10:30 **Remediation of Chlorinated Hydrocarbon Plumes in Urban Groundwaters**

Prof Dr T. Rude, LIH, RWTH Aachen University

10:30-11:00 Coffee Break

11:00-12:30 **Hybrid Riverscapes: Governing Water, Waste and Land along the Yamuna in Delhi, India**

Dr A. Follmann, Institute of Geography, Cologne University

12:30-14:00 **Lunch** at Student Mess

14:00-15:30 **Prevention of Food Waste – A Measure for Sustainable Use of Resources**

Prof Dr M. Kranert, IGCS Area Coordinator Waste Management, ISWA, Stuttgart University

15:30-16:30 **Introduction to Excursion / FiW**

**Day Four: Tuesday July 18, 2017:**

*LIH, Lochnerstr. 4-20, Room 503, 52064 Aachen*

10:00-16:00 **Study Tour to Wastewater Treatment Plant (WWTP Stolberg)**

**Day Five: Wednesday July 19, 2017:**

*City of Cologne / Municipal Drainage*

09:00- 19:00 **Study Tour about Urban Water Management (FiW)**

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**Day Six: Thursday July 20, 2017:**

*FiW, Kackertstraße 15-17, 52064 Aachen*

- 09:00-10:30 **Student Project Work**
- 10:30-11:00 **Coffee Break**
- 11:00-12:30 **Student Project Work**
- 12:30-14:00 **Lunch** at FiW
- 14:00-18:00 **Student Project Work**

**Day Seven: Friday July 21, 2017:**

*LIH, Lochnerstraße 4-20, Room 503, 52064 Aachen*

- 09:00-10:30 **Wastewater Management with Special Emphasis on Wastewater Treatment and Recycling**  
Dr H. Schönberger, ISWA, Stuttgart University
- 10:30-11:00 **Coffee Break**
- 11:00-12:30 **Engineered Nanoparticles as Emerging Groundwater Contaminants – An overview**  
Dr U. Schneidewind, LIH, RWTH Aachen University
- 12:30-14:00 **Lunch** at Student Mess
- 14:00-18:00 **Work on the Projects**

**Day Eight: Saturday July 22, 2017:**

*City of Cologne*

- 11:00 – 17:00 **Cologne City Walk**

**Day Nine: Sunday July 23, 2017:**

*Dreiländereck (Vaals)*

- 10:00-17:00 **Walk to Dreiländereck (Vaals)**  
**Free Time**

**Day Ten: Monday July 24, 2017:**

*LIH, Lochnerstraße 4-20, Room 503 and Room 217, 52064 Aachen*

- 09:00-10:30 **Work on the Projects**
- 10:30-11:00 **Coffee Break**
- 11:00-12:30 **Work on the Projects**
- 12:30-14:00 **Lunch** at Student Mess
- 14:00- 18:00 **Work on the Projects**

**Day Eleven: Tuesday July 25, 2017:**

*LIH, Lochnerstraße 4-20, Room 503 and Room 217, 52064 Aachen*

- 09:00-10:30 **Work on the Projects**
- 10:30-11:00 **Coffee Break**
- 11:00-12:30 **Work on the Projects**
- 12:30-14:00 **Lunch** at Student Mess
- 14:00- 18:00 **Work on the Projects**

**Day Twelve: Wednesday July 26<sup>th</sup>, 2017:**

*ENWOR, Roetgen & LIH, Lochnerstraße 4-20, Room 503, 52064 Aachen*

- 09:00-14.00 **Excursion to ENWOR, Roetgen, Dreilägerbachtalsperre / Reservoir**
- 14:00-15.00 **Lunch** in Aachen
- 15:00-18:00 **Work on the Projects**

**Day Thirteen: Thursday July 27, 2017:**

*LIH, Lochnerstraße 4-20, Room 503, 52064 Aachen*

- 09:00-10:30 **Presentation of Student Work and Discussion, Feedback**
- 10:30-11:00 **Coffee Break**
- 11:00-12:30 **Certificates, Evaluation/Feedback, Wrap Up, Looking Back and Farewell**
- 12:30-14:00 **Lunch** at Student Mess
- 14:45-18:00 **RWTH Extern –Tour and Water Institute (IWW) of RWTH Aachen University**
- Evening **Barbecue Dinner in the Park (Westpark)**

**Departure: Friday July 28, 2017:**

**Good-bye!**

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to India.



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Research Institute for Water  
and Waste Management  
at RWTH Aachen University