

Introduction

The IFAT India supporting program 2017 will bring together government representatives, industry leaders and leading companies from the environmental technologies sectors.

Our Innovation Exchange Forum 2017 is designed to deliberate and exchange ideas and highlight solutions for a sustainable Water, Waste & Resource Management in India. Beside foreseen key notes of political leaders and government officials there will be panel discussions and presentations with contributions from our notable local and international partners, such as Indo-German Development Cooperation of SCGJ Skill Council for Green Jobs, TERI, CII, the German Association for Water Wastewater and Waste, German Water Partnership, GIZ – Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH, German and Indian Biogas Association, Indus Media, International Solid Waste Association and also from various companies.

Furthermore in 2017, IFAT India will again present several events for young professionals and business networking. Together with our strong partners we create added value in terms of *business, career and skill development* to visitors and exhibitors likewise.

Thus IFAT India presents the 3rd University Challenge India (UCI) and special live demonstrations called Products in Practice (PinP). During our Business to Government Session several Indian states will present their initiatives, activities and new tenders. A perfect opportunity to get in touch with the decision makers.

The UCI for students will offer the trade-fair visitors an interesting insight into the special abilities and knowhow needed in the environmental sector. Group visits, whether from universities, schools or foreign delegations are very welcome to visit the Active Learning Center. There will also be several networking opportunities (e.g. the Careers in Waste Management Event) to bring together industry specialists, young talents, companies and institutions.

One of our main objectives is to inspire practitioners and decision makers and to share knowledge and experiences on reliable, approved and innovative environmental technologies. Therefore our supporting program will perfectly complement the IFAT India which will showcase proven and innovative solutions for metropolitan, industrial and rural regions likewise.

Tuesday, September 26, 2017

Innovation Exchange Forum

- 10:30-11:30 Opening Ceremony: Words of Welcome, Inauguration, Lamp Lighting**
 VIPs from Industry, Political Leaders & Government Officials
- 13:00-17:30 Water Management & Water Solutions for India**
- 13:00-13:30  **Key Note: Experiences in Zero Liquid Discharge and way forward**
 I. Sajid Hussain, COO, Tamil Nadu Water Investment Company
- 13:30-15:00  **Session I – German Solutions for the Indian Water Sector**
 organized by German Water Partnership
Moderation:
 Christine von Lonski -General Manager, German Water Partnership, Berlin
- 13:30-13:35 - **Opening & Introduction**
 Christine von Lonski -General Manager, German Water Partnership
- 13:35-13:50 - **Lewabrane® RO membranes for Zero Liquid Discharge - Cost Effective Solutions for Wastewater Recycling**
 Kedar Oke, Head- Marketing, Sales & Technical, LANXESS India Pvt. Ltd.
- 13:50-14:05 - **Performance increase of waste water treatment plants**
 Peter Althaus, CEO Managing Director, ENEXIO Water Technologies GmbH
- 14:05-14:20 - **BIO CNG production from Beema Bamboo as fuel crop cultivated on treated waste water & energy efficient waste water treatment using co fermentation**
 Amod Ghamande (Director) , Rajanish Adkar (Director), Deccan Environmental Consultants Pvt. Ltd.; Pune, India
- 14:20-14:35 - **Water Reuse Technologies**
 Cameron Adams, Technical Sales Support, INTEWA GmbH
- 14:35-14:50 - **BIO-CEL®:The Next Generation MBR**
 Sanket Gohil, Country Manager India, MICRODYN-NADIR GmbH
- 14:50-15:00 - **Discussion (all speakers) & Wrap up** (Christine von Lonski)
- 15:00-17:30  **Session II - Unlocking the potential of skill development in the Indian waste and wastewater sector - Impact on efficiency and environment**
 organized by DWA, in corporation with Indo-German Development Cooperation of SCGJ Skill Council for Green Jobs and GIZ
Moderation:
 Roland Knitschky, German Association for Water, Wastewater and Waste
 DWA, Hennef, Germany and
 Tanmay Bishnoi, Head- Standards & Research, SCGJ Skill Council for Green Jobs, New Delhi, India

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Innovation Exchange Forum

- 15:00-15:05 - **Opening & Introduction**
Moderators
- 15:05-15:20 - **Training impact in practice**
Mr. Amit Kumar Singh, Project Manager at CETP Society of the Industrial Site of Haridwar , Uttarakhand, India
- 15:20-15:35 - **Wastewater Treatment - A potential sector for employment generation- Efforts of GPCB for capacity building**
Thaker Devang M., Gujarat Pollution Control Board, Gandhinagar, Gujarat
- 15:35-15:45 - **Neighborhood – a best practice proven for experience based learning of operators**
Roland Knitschky, German Association for Water, Wastewater and Waste DWA, Hennef, Germany
- 15:45-15:55 - **Questions & Answers**
- 15:55-16:20 - **Training counts: - National Skills Qualification Framework and Skilling initiatives in Water, Wastewater and Waste Sector**
Tanmay Bishnoi, Head- Standards & Research, SCGJ Skill Council for Green Jobs , New Delhi, India
- 16:20-17:00 - **Panel Discussion:**
Perspectives on training, testing and certification in the Indian water sector
-  Thaker Devang M., Gujarat Pollution Control Board, Gandhinagar, Gujarat
 -  Dr. Shrikar Dole, Founder & CEO, SDG Foundation
 -  Cowlagi Sripati, Technical Advisor- Sustainable and Environment-friendly Industrial Production (SEIP) Programme, GIZ India, Delhi
 -  Mr. Amit Kumar Singh, Project Manager at CETP Society of the Industrial Site of Haridwar , Uttarakhand, India

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Active Learning Center

11:30-12:30 Exhibitor Innovations: Block I

- 11:30-11:50  **Mobile Waste Characterisation Unit Solar Sludge Drying Technology**
by Velankani
- 11:50-12:10  **Waste to Energy Plants**
Mr. Mathias Burge, Head of Engineering / Project-Manager,
SFA Handels GmbH - Switzerland
- 12:10-12:30  **Biotechnology products for Waste Management**
Anil Pillai, Vice President - Technology Application & Business Development,
BIOXGREEN TECHNOLOGY (P) LTD

13:30-14:30 Products in Practice Session I

-  **Plastic to Oil Pyrolysis Plant**
Pyrocrat Systems LLP

During the products in practice show a neutral moderator will guide the interested trade-fair visitors through a live demonstration of product innovations. The audience will have the opportunity to ask concrete questions and see the products presented in action. The "Products in Practice" slots deliver a live - learning about machines specifications.

14:30-16:00 Exhibitor Innovations: Block II

- 14:30-14:50  **Tools for Drain Cleaning: Video Inspection, mechanical and hydro-set drain Cleaning Machines**
Kevin Walsh, President Spartan Tools, India
- 14:50-15:10  **Optimization of Water Treatment**
Dr. Anand Tadas, Malvern AIMIL Instruments, India
- 15:10-15:30  **Revolutionary woven stainless steel filter media ODW 6 µm for rotary disc filters (aqua disc filters)**
Markus Knefel, Head of R&D at GKD - Gebr. Kufferath AG
- 15:30-15:50  **Fluorid removal based on modified zeolites - HINDROP**
Luis González, CEO Tagua S.L.
- 15:50-16:10  **Energy-efficient centrifugal blower**
by Howden Thomassen Compressors

Tuesday, September 26, 2017

Room of ideas

13:00-15:30 Biogen Waste – Workshop

organized by Indian Biogas Association and German Biogas Association

Trainers:

David Wilken (GBA) and Gaurav Kedia (IBA)

- Presentation Status Quo: Waste digestion in Germany
- Biowaste collection, preparation and digestion in Germany
- Biowaste treatment in India
- Discussion
- Digestate and compost application as fertiliser in Germany
- Nutrient and Carbon management in India
- Discussion

16:00-18:00 First General Assembly of the Indian Biogas Association (IBA)

- only for IBA members -

-  **Welcome address to members**
Dr. A. R Shukla, President
-  **Report on IBA's achievement**
Mr. Gaurav Kedia, Chairman
-  **IBA's outlook and strategy**
Mr. Abhijeet Mukherjee, Project Coordinator
-  **Discussion**
-  **End of session**


Wednesday, September 27, 2017






Innovation Exchange Forum

10:30-12:30 Session on Biogas in India

organized jointly by Indian Biogas Association (IBA), German Biogas Association (GBA) and GIZ

10:30-10:45  **Presentation on intermediate results of current study on biogas in India**
Kay Schaubach, DBFZ (German Biomass Research Centre)

10:45-11:30  **Panel Discussion:**
moderated by Thomas Kauter-Eby, GIZ


-  Mr. Gaurav Kedia, Indian Biogas Association
-  Ms. Saskia Louwen, Archea New Energy GmbH
-  Dr. G.P. Subash, Head Biogas Projects, Mahindra & Mahindra Ltd.
-  Pollution Control Board, N.N.
-  State Government, N.N.


11:30-12:00  **Presentation on Nashik Biogas Project**
Jitendra Yadav, GIZ on behalf of Nashik Municipal cooperation

12:00-12:30  **Presentation on German Biogas Training Network**
Volker Aschmann, German Biogas Association


13:30-16:30 Business to Government Session
organized jointly by Indus Media and GIZ

13:30-13:40  **Opening Address**
Bhupinder Singh, CEO Messe München India

13:40-13:45  **Welcome Note**
Brijesh Patel, Managing Director, Indus Media

13:45-14:15  **Presentation from State of Rajasthan,
Shri Dr. Manjit Singh , Principal Secretary, Local Self Government**

- Outlook and innovative approach
- State initiatives & Goals in the area of Solid Waste Management
- Future projects, incentives and subsidised schemes
- Release of new tenders, DPR's
- Questions & Answers

14:15-14:45  **Presentation from State of Andhra Pradesh,
Shri. R. Karikal Valven, IAS. Principal Secretary,
Municipal Administration & Urban Development (MA&UD)**

- Outlook and Innovative Approach
- State initiatives & Goals in the area of Solid Waste Management
- Future projects, Incentives and subsidised schemes
- Release of new tenders, DPR's
- Questions & Answers

Wednesday, September 27, 2017

Innovation Exchange Forum

- 14:45-15:15  **Presentation from Municipal Corporation of Greater Mumbai
Dr. Sanjay Mukherjee, Additional Municipal Commissioner, (Projects)**
- Outlook and Innovative Approach
 - State initiatives & Goals in the area of Solid Waste Management
 - Future projects, Incentives and subsidised schemes
 - Release of new tenders, DPR's
 - Questions & Answers
- 15:15-16:00  **Panel Discussion:**
moderated by Mrs. Vaishali Nandan, Sr. Advisor, GIZ India
-  **Dr. Sanjay Mukherjee**, Additional Municipal Commissioner
 -  **Shri Dr. Manjit Singh**, Principal Secretary
 -  **Shri. R. Karikal Valven**, Principal Secretary
 -  **Indian industry representatives**, N.N.
- 16:00-16:15  **Vote of Thanks**
Brijesh Patel, Managing Director, Indus Media.

Wednesday, September 27, 2017

Active Learning Center

10:00-12:15 Workshop on Air Quality Management

- 10:15-10:20  **Welcome and Introduction**
Dr. Shrikar Dole, CEO SDG Foundation
- 10:20-10:35  **Inaugural Address**
Dr. P. Anbalagan, Member Secretary, Maharashtra State Pollution Control Board (tbc)
- 10:35-10:50  **Policies & Regulations - Current situation & trends**
Dr. V. M. Motghare, Joint Director, Air, Maharashtra State Pollution Control Board
- 10:50-11:05  **EU & German perspectives in AQM**
Dr. Meinolf Druieke, Head of Dept. - Air Quality Control, State Agency for Environment, Nature Conservation & Geology, Germany
- 11:05-11:20  **Techniques & Technologies in AQM**
Shri S. K. Gupta, Director, Envirotech Instruments Pvt. Ltd.
- 11:20-11:35  **Data Acquisition and Analytics for CEM, EQMS or CAAQMS**
Shri Sudheesh Narayanan, CEO, Knowledge Lens - A Big Data Analytics and IOT Company
- 11:35-11:50  **Air quality data & forecasting**
Dr. Gufran Beig, Project Director SAFAR, Indian Institute of Tropical Meteorology
- 11:50-12:10  **Developing Integrated Strategy for AQM Plan and Way Forward**
Dr. Prasad Modak, Executive President, Environmental Management Centre
- 12:10-12:15  **Conclusions**
Dr. Shrikar Dole, CEO, SDG Foundation



12:15-12:30 Opening of 3rd University Challenge India

Moderation: Roland Knitschky, DWA

-  **Opening remarks**
Christian Rocke, Exhibition Group Director IFAT, Messe München GmbH

12:30-14:00 Products in Practice Session II & III

During the products in practice show a neutral moderator will guide the interested trade-fair visitors through a live demonstration of product innovations. The audience will have the opportunity to ask concrete questions and see the products presented in action. The "Products in Practice" slots deliver a live - learning about machines specifications.



- 12:30-13:30  **Gas detection & measurement instruments, Gas Chromatography**
Schütz Messtechnik
- 13:30-14:00  **Systems for Stormwater Management**
Fränkische Rohrwerke: Gebr. Kirchner GmbH & Co. KG: Pipe Systems & Drainage Solutions

Wednesday, September 27, 2017

Active Learning Center

14:00-18:00 3rd University Challenge India
organized by DWA, supported by WILO

Within the framework of the University Challenges, organized by DWA, young talents from universities in India have the chance to demonstrate their expertise and know how competing with each other in four disciplines. The format has been established to promote international engineers of tomorrow and to make companies aware of these qualified young people.

-  Competition
-  Awarding of the top teams

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Wednesday, September 27, 2017

Room of ideas

10:00-14:00 Workshop on India's urgent need for sustainable solutions in urban wastewater treatment and resource recycling

organized by CleanWaterNorway

Focus:

Focus of this workshop will be on the challenges within the Indian wastewater and sanitation sector. CWN (Clean Water Norway) companies will showcase proven Nordic solutions for sustainable & efficient treatment of wastewater and sludge. CWN will also demonstrate how these solutions will integrate with the Government's "Swachh Bharat Mission" and support the national reform on water and sanitation.

Key Words:

Business Model, Financial Structure, Technology & Innovation, Regulation & Legislation

Key question:

How can India take advantage of the latest available technology that meet today's international requirements for sustainable solutions?

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Thursday, September 28, 2017

Innovation Exchange Forum

10:30-12:30 Session on Closing Dumpsites Campaign

organized by ISWA

10:30-10:45  **Introductory Remarks**

10:45-11:30  **Panel Discussion:**

This session will address the need to adopt a holistic view of waste management by considering the total waste system, and then developing the most appropriate mix of infrastructure and services to manage the waste. The panelists will discuss incentives and policies required to help create an alternate to dumping of waste. Discussion will address unlocking the economic potential of waste as it has been identified as a sector that can contribute to job creation and enterprise development. Further, the session will present potential solutions to the hurdles/challenges of waste management in India. Discussion will spin around the priorities and opportunities at the local as well as the country level, focused on the needs of the country, building on the important work being done by multiple actors, scaling it up and making it more effective.


Facilitator:

Ms. Vaishali Nandan, Senior Advisor, GIZ India

11:30-12:15  **Questions & Answers**
Participation from the audience

13:00-15:00 European-Indian cooperation project (EU-REI) on Resource Efficiency Opportunities & Potential: Innovations in Resource Recovery and Secondary Resource Utilization

organized by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH with The Energy and Resources Institute (TERI), Confederation of the Indian Industry (CII) and Adelphi.

13:00-13:10  **Welcome Address and Opening Address**
Henriette Faergemann, Counsellor Environment, Energy & Climate Change, European Union (EU) Delegation to India


13:10-13:25  **Key note address: Resource Recovery and Secondary Resource Management: Role of RE strategy**
Dr. Dieter Mutz, Team Leader, EU – Resource Efficiency Initiative, GIZ

13:25-14:25  **Panel Discussion:**

Policy Development for Resource Efficiency (RE) & Secondary Resource Management (SRM)



Chair: Dr. Prasad Modak, Member, Indian Resource Panel (InRP)


 Ulhas Parlikar, Dy. Head, Geocycle, ACC Limited

 Waste Exchange Platform - Muthusezhiyan, Principal Counsellor, Confederation of Indian Industry (CII)

 Sanjeev Sirsi, Head, Business Development, Grundfos India Limited

IFAT India 2017 - Supporting Program

-  Industrial use of secondary resources
Rene Van Berkel, Officer In Charge, UNIDO India
-  Business models on Resource Efficiency
Dr. Shilpi Kapur, TERI

14:25-14:50  **Open discussion & Questions & Answers Session**
moderated by Dr. Prasad Modak

14:50-15:00  **Conclusions & Summary**
Henriette Faergemann, Counsellor Environment, Energy & Climate Change,
European Union (EU) Delegation to India

 **Vote of Thanks**
Dr. Dieter Mutz, Team Leader, EU – Resource Efficiency Initiative, GIZ

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Thursday, September 28, 2017

Active Learning Center

13:30-14:45 First Annual Meetup – Young Professional Group India

organized by ISWA

After the successful launch of the ISWA YPG Regional Group in India in 2016, the group will get together for its first annual meet-up on the margins of the IFAT India fair in Mumbai. The group will update on the past activities and brainstorm on new initiatives for the next years.

15:15-17:00 Workshop – Entrepreneurship in Waste Management









organized by ISWA

The annual meet-up will be followed by a workshop on entrepreneurship in waste management. This session will bring together professionals, policy makers, and entrepreneurs in a two-session event to address challenges, identify opportunities and share the most effective practices and recommendations to create a successful business in the waste management sector.

Everyone is welcome. Join the session and get to know this exciting group of motivated young professionals from India and around the world.

Thursday, September 28, 2017

Room of ideas

- 13:00-17:00 Workshop on Remediation of Waste Dumpsites** (*-only on Invitation-*)
organized by Indus Media
- 12:30-12:35  **Introduction note**
Brijesh Patel, Managing Director, Indus Media
- 12:35-12:40  **Greetings**
Dr. Panagiotis Karamanos, Team Leader
EU Technical Cooperation for Environment in India
- 12:40-13:00  **Welcome & Greetings -
Swachh Bharat Mission initiative for Landfill mining in India.**
Joint Secretary & Mission Director (Swachh Bharat Mission SBM)
Ministry of Urban Development (tbc)
- 13:00-13:45  **Landfill Mining – A contribution of waste management to resource conservation:
Technical interventions and process**
Prof. Dr.-Ing. Klaus Fricke, Professor, Leichtweiß-Institut of hydraulic engineering and
Waste management of the Technical University of Braunschweig, Germany
- 13:45-14:15  **Technical challenges and solutions for the Indian dumpsites**
Mr. Allan Bartholin , Project Manager, Asia- Eggersmann Group
- 14:15-15:00  **Case studies (tbc)**
- 15:00-15:45  **Panel Discussion:**
Moderator:
Brijesh Patel, Managing Director, Indus Media
- 15:45-16:30  **Questions & Answers**
- 16:30  **Vote of Thanks**
Dr. VK Verma, EU Technical Cooperation for Environment in India Alternate Team
Leader and Joint Director (EPD), Shriram Institute for Industrial Research