Aqua Foundation

XI World Aqua Congress
International Conference

09th - 10th November, 2017, New Delhi, India

Theme: Water & Environment Solutions: Cutting Across Borders
(Presenting Best Practices from Across the World)

Organized by:

Aqua Foundation
Serving Earth & Humanity
Aqua Foundation is a Non-Governmental Organization working on key aspects of Water, Environment & Humanity. The ever balanced, ever harmonized cycles & arrangements of nature have been greatly challenged and disturbed by humans in last century, which in turn pose a threat to their own survival. The organization is working to reverse these damages and work towards a sustainable living, in oneness with fellow humans, other living beings, plants and nature. The ultimate goal of the organization is to ensure humanity’s long term future.

The activities of Aqua Foundation include knowledge creation, information dissemination, research and education. The organization works through a diverse range of tools and techniques including, but not limited to, conferences, seminars, training programs, on-line learning, capacity building, community projects, school activities etc., with prime focus on Humanity and Sustainability.

Aqua Foundation is organizing international conference ‘World Aqua Congress’ since year 2007. The conference aims to bring various stakeholders i.e. policy makers, researchers, academicians, industry, NGOs etc., on a common platform for meaningful discussions & deliberations and implementation & execution. ‘Aqua Excellence Awards’ are also key highlight of the two days international conference. These awards are given to promote, encourage & recognise innovations and contributions in the field of environment & humanity.

India faces major challenges in the water sector with the per capita availability going down and demand growing due to urbanisation and industrialisation. Inefficiency of water use in agriculture, over-exploitation of underground water and contamination are other issues associated with water management in the country. While there is a wide recognition that around 54% of India faces high to extremely high water stress, smart solutions and sound approaches to the utilization, conservation, protection, and administration of the resource are yet to be implemented.

India needs to adopt best practices in the field of water & environment, without waiting any further. The world is a big global community today and it’s always desirable to learn from other counties already having made significant advancement in the field of sustainability. Accordingly, 11th World Aqua Congress (XI WAC-2017) was organised with an objective to bring best of the solutions from around the world on a single platform, and present them to Indian government, policy makers and industry.

XI WAC 2017- International Conference, aimed to bring together policy makers, administrators, academicians, scientists, researchers and industry to exchange and share their experiences, innovations, and ideas about all aspects of Water & Environment. It provided the premier interdisciplinary forum to present and discuss the most recent innovations, trends, concerns, practical challenges and the solutions in the field of Water & Environment.
Following themes broadly described the focus areas of deliberations, with a certain degree of overlapping. The structure was been deliberately kept flexible and evolved depending on research contributions received from participants.

**Water Resources: Availability, Exploration, Management, Quality**
- Water Quantity- Gaps in Demand & Supply in Various Sectors
- Water Exploration & Management- Latest Trends in Surface & Ground Water
- Water Quality Management
- Water Quality Criteria for Various Uses-Present Status
- Global Climate Changes & Impact on Water Resource Management

**Additional Resource Creation- Rainwater Harvesting**
- Sustainable Urban Drainage- Designing for Exceedance in Spectre of Frequent Droughts
- Latest Rainwater Harvesting Concepts
- Developing Area Specific Rainwater Harvesting Approach
- Plugging Rainwater Harvesting Loopholes & Ensuring Implementation

**Additional Resource Creation- Reuse, Recycle & NRW Reduction**
- Waste to Water
- Reduction of Corporate Water Footprint - ZLD / Water Reuse
- Efficient Network Management - Reduction of NRW / UFW
- Water Leakage Detection/ Prevention Technologies

**Waste Management**
- Solid & Liquid Waste Management
- Industrial Wastes
- Best Practices, PPP Models, Case Studies, Community Participation
- Biomass, Biofuels and Bio energy production
- Energy Recovery
- Landfills (& Leachate), Composting, Recycling

**Water, Sanitation and Health**
- Safe and Affordable Drinking Water for All
- Adequate and Equitable Sanitation
- Water and Public Health
- Water Leakages, Wastages, Poor Water Management

**Emerging Technologies & Concepts**
- Automation and Sensors for Monitoring Water Quality, Leaks, Energy, Flood Predictions, and Other Parameters
- Nature-Based Solutions for Water Sector
- Decentralizing Water Supply Systems
- Green Infrastructure
- Adaptive Water Management
- Salinity Management, Desalination
- Utilities and Utility Management
- Sea Level Rise and Coastal Zone Management
- Preserving Oceans & Other Water Bodies as Carbon Sinks

**Enhancing Water Use Efficiency**
- Water Efficiency Including Water Footprint and Virtual Water Calculations
- More Crop Per Drop- Agriculture Sector
- Emerging Irrigation Technologies
- Protected Cultivation Technology
- Techniques to Save Runoff Rainwater
- Multipurpose Role of Village Ponds to Augment Water
- Water Use Efficiency in Domestic Sector
- Transportation and Distribution of Water
- Municipal Water Management

**Financial, Institutional, Legal & Policy Issues**
- Water Policy and Water Usage Reform
- Water Rights, Pricing & Laws
- Government’s Role in Water Management
- Water Access as a Fundamental Right
- Laws to Prevent Pollution of Water Bodies & Aquifers
- Municipalities and Sustainable Water Management at Local Level
- Water Infrastructure—investment and Financing
Session Chair Persons

Dr. D. K. Chadha  
Chair Professor & Chairman, CAWTM (Centre for Advance Water Technology and Management)

Shri A B Pandya  
Ex-Chairman Central Water Commission and Advisor WAPCOS

Shri K B Biswas  
Former Chairman Central Ground Water Board

Prof. Partha Sarthi Datta  
Former Director, NR, IARI, New Delhi and Advisor & Consultant, Water & Environment

Prof. K. G. Moodley  
Honorary Research Professor Durban University of Technology South Africa

Dr. Yogesh Sharma  
Ex-Director, MoEF and Ex-Advisor, NMCG

Mr. S. M. Sharma  
Chairman Jagran Pehel

Dr. Rakesh Khare  
Former Executive Director THDCIL

Key Note Speakers

Shri A B Pandya  
Ex-Chairman Central Water Commission and Advisor WAPCOS

Prof. Partha Sarthi Datta  
Former Director, NR, IARI, New Delhi and Advisor & Consultant, Water & Environment

Mr. A R Shivakumar  
Bengaluru’s, Rainman

Mr. Amit Mehrotra  
Program Manager UNICEF, Uttar Pradesh

Mr. Sanjay Kundu  
Joint Secretary, PF, MoWR, RD & GR, GoI

Dr. B R K Pillai  
Commissioner (CAD) MoWR, RD & GR, GoI

Tech Talk

Mr. Deeraj Kumar  
Maccallari Environmental Solutions Pvt. Ltd.

Mr. Pawan Kakkar  
Director, Jugapro New Delhi

Mr. Sambhav Chundhoke  
Chaitanya Instruments Pvt. Ltd. New Delhi

Ms. Geeta Kannupillai  
GM Marketing and Communication Piramal Water Private Limited Ahmedabad

Mr. Amar Nath  
Knowledge Integration Services Bangalore
Authors

Er. Vivek P Kapadia  
Chief Engineer, WRO, Gujarat

Ms. Pragya Sharma  
Babasaheb Bhimrao Ambedkar University, Lucknow

Dr. Vandana Singh  
CSIR-National Botanical Research Institute, Lucknow

Dr. A. Mukherjee  
Professor, Manav Rachna International University, Faridabad

Dr. Subhash C Singh  
CGWB, Bhopal

Ms. Swati Jain  
FET, Manav Rachna International University, Faridabad

Ms. Syed Talia  
Sher-e-Kashmir University of Agricultural Sciences and Technology, Jammu & Kashmir

Dr. Pramod K Pandey  
University of California, Davis, California, USA

Mr. Dipak Behera  
Head (Planning), OMQ Tata Steel Limited, Jharkhand

Ms. Swati Saigal  
Technical Consultant, GHS & Technical Secretary, Water Aid and Restoration Initiative, Gurgaon

Prof. K G Moodley  
Honorary Research Professor, Durban University of Technology, South Africa

Mr. Prabhash Gokarn  
Head Engg Projects & Town, FAMD, Tata Steel Limited, Odisha

Dr. N Muthulakshmi Andal  
Assistant Professor, PSGR Krishnammal College for Women, Coimbatore

Mr. Abhinav Wadhwa  
Vellore Institute of Technology, Vellore

Dr. Somnath Sen  
Associate Professor, IIT, Kharagpur

Er. Samarakoon Banda  
Director, VS Consulting (Pvt) Ltd, Colombo, Sri Lanka

Mr. Rohit Lall  
Joint Project Director, NCPAH, Ministry of Agriculture and Farmer’s Welfare, GoI

Ms. Geeta Sandal  
Senior Project Officer, Sustainability Management, ICLEI-Local Governments for Sustainability, South Asia

Ms. Renuka Verma  
Civil Engg. Dept., IIT, Roorkee

Dr. R Vignesh  
Assistant Professor, Vel Tech Dr. RR & SR University, Chennai

Dr. Pramod K Pandey  
University of California, Davis, California, USA

Ms. Deepika Bhaskar  
Department of Civil Engineering, IIT, Roorkee

Ms. Pooja Kumari  
Jawaharlal Lal Nehru University, New Delhi

Dr. Ombir Singh  
Scientist E, Forest Research Institute, Dehradun
The "AF's Excellence Award" are the highest award given by Aqua Foundation to its members & stakeholders in recognition of their outstanding achievement in the field of Nature. Aqua Foundation honours, in each World Aqua Congress, individual/nominees of corporate members who have made mark in their respective fields of expertise or have made a significant contribution towards the Water & Environment Conservation Techniques.

The awardees of Aqua Excellence Awards for year 2017:

- **Dr. Vandana Shiva**
  Life Time Achievement

- **Mr. P.K. Viswanathan**, Manager (Business Development)
  *Mr. Amarnath. K*, Sr. Manager (Projects & Process)
  **Mr. Prahsant Tiwari**, Civil Eng (Projects)
  Knowledge Integration Services
  Outstanding Contribution towards cause of Sustainability (Private Sector)

- **Mr. Ashutosh Vadanegekar**
  Managing Director
  **Mr. Anurag Jha**
  Business Head
  Amalgam Engineering
  Environmentally Sound Management of Toxic Chemicals (Industrial Sector)

- **Mr. H. Shankar**
  Managing Director
  **Clean Coats P. Ltd.**
  Excellence in Resource Management (Industrial Sector)

- **Mr. Michael S Baptist**, Director
  *Mr. Vijayraj*, Director
  Farmland Rainwater Harvesting Systems Excellence in Development of Technology (Industrial Sector)

- **Mr. Habil Attarwala**, Director
  **Mr. Yusufi Attarwala**, Director
  Furaat Earth Private Limited
  Excellence in Development of Technology (Industrial Sector)

- **Shri Jadu Thakur Das**
  Head CSR
  Govardhan Ecovillage
  Green Housing (Social Sector)

- **Mr. Vikramjiet Roy**
  Representative
  Isha Foundation
  Outstanding Contribution towards cause of Sustainability

- **Mr. Prabhat Srivastava**
  Vice-President
  Jain Irrigation Systems Limited
  Outstanding Contribution towards cause of Sustainability - Contributions towards Sustainable Development in Food And Agriculture

- **Mr. Sanjeev Bhasin**
  Sales and Marketing Head
  Knowledge Lens
  Excellence in Development of Technology (Industrial Sector)

- **Mr. Vikramjiet Roy**
  Managing Director
  Maccaferri Environmental Solutions Pvt. Ltd.
  Outstanding Contribution towards cause of Sustainability (Private Sector)

- **Dr. Sarita Sachdeva**, Dean Research
  **D.K. Chadha**, Chair Professor and Chairman
  Centre for Advance Water Technology and Management
  Manav Rachna International University Excellence in Resource Management (Institutional)

- **Mr. C.V. Rajesh**
  Marketing Manager
  Megaplast India Pvt. Ltd.
  Outstanding Contribution towards cause of Excellence in Water Conservation (Private Sector)
Mr. Apurv Kesarkar  
Target Manager  
Water Structures, Murasit Bauchemie  
Excellence in Development of Technology (Industrial Sector)

Shri Biswarup Basu  
General Manager, Jhanor Gandhar Gas  
Power Project, NTPC Ltd.  
Sustainable Development in Thermal Power (Public Sector)

Mr. R. Selvakumar  
Corporate Relationship Executive  
Roots Group  
Excellence in Development of Technology (Industrial Sector)

Mr. Amit Sharma, Managing Director  
Sanitech Engineers & Consultants Pvt. Ltd.  
Sustainable Development in Construction & Infrastructure Sector

Mr. P R Ganapathy Krishnan  
Managing Director  
Sigma Pollution Control Equipments India Pvt. Ltd.  
Environmentally Sound Management of Solid Waste & Sewage Related Issues

Mr. Sandeep Gupta  
Managing Director, SIMA Labs Pvt. Ltd.  
Environmentally Sustainable Treatment and Management of Industrial Effluents, Sewage and Septage

Mr. Prabhash Gokarn  
Head Engineering Project & Town Manager  
Mr. Nikhil Agarwal, Manager Environment  
Tata Steel Limited, Odisha  
Sustainable Development in Mining Sector

Mr. Dipak Behera, Head Planning  
Mr. Adarsh Agrawal, E.A to General Manager  
Tata Steel Limited, Jharkhand  
Sustainable Development in Mining Sector

Mr. Raghav Khadakkar, C.E.O.  
Mrs. Bhagyashree R. Khadakkar, C.O.O.  
Vipanan Analytical Technologies  
Excellence in Resource Management (Industrial Sector)

Mr. Sandeep Gupta  
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Environmentally Sustainable Treatment and Management of Industrial Effluents, Sewage and Septage

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Sustainable Development in Mining Sector

Mr. Dipak Behera, Head Planning  
Mr. Adarsh Agrawal, E.A to General Manager  
Tata Steel Limited, Jharkhand  
Sustainable Development in Mining Sector

Shri Vijay Baghel  
(The Green Man)  
Outstanding Contribution towards Environment Conservation (Individual)

Shri A. R. Shivakumar  
(Bangalore’s Rain Man)  
Outstanding Contribution towards Water Conservation (Individual)

Mr. Amit Sharma  
Managing Director  
Sanitech Engineers & Consultants Pvt. Ltd.  
Professional Excellence (Individual)

Mr. Ashutosh Vadanagekar  
Managing Director  
Amalgam Engineering  
Professional Excellence (Individual)

Prof. Ar. Bhavna Vimawala  
Faculty of Architecture SCET, Surat  
Academic Excellence (Individual)

Mr. Laxmi Prasad Subedi  
Managing Director  
New Technical Waterproofing Services, Nepal  
Excellence in Development of Technology (Individual)

Dr. Pramod Pandey  
University of California, USA  
Professional Excellence (Individual)

Mr. Ramakant Bari  
Proprietor, Atlanta Industrial Corporation  
Professional Excellence (Individual)

Mr. Tairq Siddiqui  
on behalf of Mr. Subhash Sethi  
Chairman, SPML Infra Limited  
Professional Excellence (Individual)
Glimpses 2017
Glimpses 2017
Recommendations of XI World Aqua Congress

1. As an adaptive measure against climate change and its projected anticipated impacts on water, India should look for maximizing its water storage capabilities, conservation, protection and water use efficiency; and bridge water demand and supply gap.

2. The water right issues in India need special attention. WAC strongly recommends that a high level multi-disciplinary expert committee should be constituted to review all the legal and regulatory aspects of water in the country for effective, efficient, equitable and judicious use of country’s water resource with long term vision.

3. WAC strongly recommends that nodal centres, ‘Aqua Clinics’, may be introduced in all towns of the country. This clinic may have the composition of policy makers, administrators, academicians, researchers, NGOs and farmers. These clinics can look into region specific issues and can also provide necessary relevant information and guidelines to public. For rainwater harvesting and ground water recharge, clear, region specific guidelines have to be prepared and implemented. Model Recharge Centres can be developed at district levels to showcase and educate the type of recharge structure suitable for that area.

4. Bureau of Water Efficiency (BWE) should be set up to address to efficiency issues in all sectors. BWE should coordinate with all the stakeholders to ensure efficient use of water in rural, agriculture, urban and industrial sectors. BWE should undertake regulatory and promotional functions for water efficiency.

5. Recognising waste water as an alternative source of water, national and state specific action plan need to be developed for its reuse and recycle. India should develop standard norms for use of treated waste water for MAR (managed aquifer recharge) seeing the reducing rainy days in the country.

6. Efforts need to be concentrated to water literacy among people, and make people aware about the value of water; water depletion and pollution; the relationship of water and health, water and energy, water and economy and on water and environment. Role of non-government institution/ agencies in this regard should be defined and utilized properly to take advantage of available resources within the country.

7. There is an urgent need of capacity building in water sector. Handful of government run training institutes can not alone accomplish this mammoth task. WAC strongly recommends that Ministry of Water Resources, RD & GR& other concerned Ministries need to review/ revise/ update training modules developed by various institutes, Aqua Foundation and other active NGOs in water sector, and give its 'recognition' and widely distribute these modules. These trainings at Panchayat Raj Institutions need to be promoted by Government on priority basis.

8. Policy framework and institutional arrangements need to be strengthened in Irrigation sector, which is the largest consumer of water in India, and the competitive demand of water is increasing day by day. Industrial water use in the country is in the lower side comparative to global average and bound to increase.

9. Irrigation practices need to be improved urgently for optimal utilization of surface/sub surface water. Awareness of water conservation practices needs to be promoted both by incentives and by sensitizing the Community through publicity campaigns. Build Capacity of Women by training on water conservation, protection and water use efficiency.

10. Policy intervention is required to utilize existing huge saline/brackish groundwater resource of country.

11. WAC strongly recommends creation of a National Task Force on Data Sharing to ensure creation of a National Data Bank of water, to ensure adequate research on various aspects of water. All available geophysical & hydrological data should become accessible in public domain.

12. Newer advances have led to syntheses of magnetic nano-composites involving variety of mixtures with iron oxides, which can adsorb specific pollutants, and these nano-composites with adsorbed pollutants can be easily removed from the contaminated water body. The industries/ companies, which know what pollutants are present in their wastewaters, should be encouraged / motivated to use these technologies in the form of incentives such as of tax rebates to clean up and reuse their wastewaters, and eliminate the need to release their contaminated wastewaters into rivers and streams. For community level drinking water projects all government tenders should ensure remote monitoring system to be a part of each plant to ensure transparency and accountability and therefore ensuring that the benefits reaches to the beneficiary.

13. Water Industry, policy makers and stakeholders should adopt the following:
   a. Reinvent effective efficient technologies for wastewater recycling and treatment processes, and wastes management, and prove these as assured approaches for safe water supply; and ensure that public reuse water to meet demands by using reliable trusted source of recycled water.
b. Relook the issues and problems with wastes management from the point of view of absence of a successful model wherein segregation of waste and re-processing it by a single re-processing plant can convert all types of wastes and wastewater into something useful.

c. Identify and examine important and inter-dependent aspects of the humanitarian challenge: reducing the water needs, through traditional or innovative technologies and mechanisms, and improving the efficiency of wastes and wastewater management.

d. Develop policies to help make waste reducing and partially pollution-abating industry legitimate, ensuring that households, industries and institutions segregate their waste at source, and limit the amount to be dumped and discharged.

e. Ensure strong determination at the highest level of political leadership to prevent conflicts and to reduce wastes/wastewater risk leading to disastrous situation, to remove inconsistency between one’s values and actions, by change in attitude and behavior of all the stakeholders.

f. Bridge the attitude-behavior gap, which often emerges and can be further affected by a variety of reasons including convenience, social norms, lack of public participation, and lack of education and awareness of all stakeholders on effective waste management techniques and approaches.

g. Improve governance with multi-level approach, long-term strategy, and collaboration, because, the challenges require urgently and extensively upgrading of generally ageing and very expensive water infrastructure, which underlies water security.

h. Facilitate participation of Scientists/Technologists in policy processes for providing advice, based on available Science & Technology knowledge; for creating programs that will improve their collaboration with policy-makers and other stakeholders in the generation of scientific knowledge.
VIII WAC 2017 HIGHLIGHTS

Messages

Dr. R.P. Varshney,
IPS, U. S. A.

October 11, 2017

The World Vice President of India is happy to know that Aqua Foundation is organizing the World Water Congress on the theme “Water & Environment: Cutting Across Borders” on November 9, 10, 2017 at India Habitat Centre, New Delhi.

The World Vice President conveys his wishes for the success of the event.

Warm regards,

Yours sincerely,

Dr. R.P. Varshney

Dr. Narayana Varshney

MESSAGE

I am particularly pleased to note that Aqua Foundation, an NGO working for the conservation of water & environment, is organizing the World Water Congress - “Water and Environment: Cutting Across Borders”. I am happy to see that this event is being held in India.

Water and food security are matters of national concern to any society, especially with growing population and increasing consumptions of this vital resource in industrial agriculture and domestic sector. This is our responsibility to ensure that the future generations have a water and food security.

I wish you all success and hope the outcomes of the event will have a long-lasting impact on all stakeholders.

Warm regards,

Yours sincerely,

Dr. Narayana Varshney

Dr. L.K. Verma

MESSAGE

I was pleased to note that Aqua Foundation, an NGO working for the conservation of water & environment, is organizing the World Water Congress - “Water and Environment: Cutting Across Borders”.

As a Water scientist, I wish you all success and hope the outcomes of the event will have a long-lasting impact on all stakeholders.

Warm regards,

Yours sincerely,

Dr. L.K. Verma

Dr. M. S. Swaminathan

MESSAGE

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Dr. M. S. Swaminathan
Feedback

Information/Communication
- Excellent: 99%
- Very Good: 1%

Venue and Arrangements
- Excellent: 98.25%
- Very Good: 1.75%

Technical Papers and Sessions Quality
- Excellent: 99.75%
- Very Good: 0.25%

Overall Hospitality of Organizers
- Excellent: 100%

Testimonials

Thanks a lot for giving the opportunity to meet with diversified group.

Dr. Anju Gaur
Water Specialist
The World Bank

Cheers and Salute to You All who tirelessly work towards the well-being of Humanity.

Anil A Bhagwan
General Manager
Canar Trading, Bahrain

I am very impressed with your organization doing excellent work for the country.
I was impressed with the non-use of plastic bottles avoided for drinking water during conference for 2 days this is extremely remarkable. Wish your team a grand Success in future.

M A Majaria
President
Indian Quality Centre
For Trade Promotion & Marketing Development Society

The conference was well organized and ran smoothly. Proud of you all.

Samarakoon Banda
VS Consulting (Pvt) Ltd.
Sri Lanka

It was the most well managed event that I have ever attended, especially the very warm personal touch for each individual. The entire event was very thoughtfully planned and meticulously executed.
The presentations made by eminent people were of the highest quality of scholarship and ensuring the participation of a select group of distinguished professionals was a remarkable achievement.

Please continue with your good work for humanity.

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Sri Lanka

It was indeed a very rewarding experience being there and listening to so many well informed discussions.
Will be looking forward to more such interactions.

JK Bhalla
Former Director
GSI and Secretary, GHS

Thank you for organising such wonderful conference. It was a great learning and sharing experience.

Amit Mehrotra
Program Manager
UNICEF

Thank you for organising an event for a cause. Thank you for recognizing our company for the award.

Prabhash Gokarn
Head (Projects)
Tata Steel Ltd

I would like to thank you once again for the invitation. It was an honor to be the part of XI World Aqua Congress 2017.

Geeta Sandal
Senior Project Officer
Sustainability Management
ICLEI- Local Governments for Sustainability, South Asia

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Head Operations
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My Best Wishes to your entire team

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Ex-Director, MoEF
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“If you cannot love each other you cannot achieve your goal”