

Event Folder



Aqua Foundation XII World Aqua Congress

International Conference

22nd - 23rd November, 2018, New Delhi, India



Theme: Enhancing Water Use Efficiency

Organized by:



About Aqua Foundation

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.

About Enhancing Water Use Efficiency

Aqua Foundation is a Non-Governmental Organization working on key aspects of Humanity. 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 2 days international conference. These awards are given to promote, encourage & recognise innovations and contributions in the field of water, environment & humanity.

India is growing...practically in every aspect. At 7.2%, India is the fastest-growing large economy in the world today. At the same time, Indian economy is struggling with excessive population growth and changing water resource conditions. 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. It can not be 'business-as-usual' if India has to meet food and water demand and aspirations of its growing population. Smart solutions are urgently needed to holistically address to ensure adequate water supply for a growing India.

Water use efficiency includes any measure that reduces the amount of water used per unit of any given activity, consistent with the maintenance or enhancement of water quality. Water use efficiency has a clear role to play in sustainable development, in other words, the use of the earth's resources by today's inhabitants while assuring that future generations have sufficient capacity to meet their own needs. Improving the efficiency of resource use comprises one means of meeting sustainable development goals.

The objective of the XII World Aqua Congress was to bring various stakeholders on a common platform, deliberate on issues linked to water use efficiency, discuss inclusion of these solutions in policy framework and work towards ensuring a more sound future for the world we leave to our children. Accordingly, the Congress was targeted at scientists, practitioners, and technological innovators, as well as policy and decision-makers, financial stakeholders and investors, legal and regulatory specialists, and groups involved in capacity building.

The conference was being organized along with exhibition on water technology. Various new technologies have emerged for efficient use of water, water management, waste water treatment, distribution, desalination, recycling, re-use etc., and exhibition provided a platform for display of these technologies.



Themes & Topics

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.

Enhancing Water Use Efficiency

- Physical, Social and Economical Dimensions
- Technological Aspects
- Environmental Aspects

Enhancing Water Use Efficiency Agriculture Sector

- More Crop per Drop- Agriculture Sector
- Emerging Irrigation Technologies
- Protected Cultivation Technology

Enhancing Water Use Efficiency- Rural Sector

- Multiple Use of Water Resources
- Water Safety Planning
- Sustainability of Water Systems
- Water for Livestock
- Drinking Water for Rural Sector- Meeting the Demand
- Reviving the Conventional Systems

Enhancing Water Use Efficiency- Urban Sector

- Water Use Efficiency in Domestic Sector
- Transportation and Distribution of Water
- Making Water & Wastewater Utilities More Efficient
- Process Automation and Operational Data Management
- Municipal Water Management
- Additional Resource Creation- Rainwater Harvesting, Recycling etc.
- Desalination and Related Technologies
- Municipal Solid Waste Treatment
- Green Infrastructure- Need, Concepts & Principles
- Technologies for Urban Sector

Enhancing Water Use Efficiency- Industrial Sector

- Performance Optimization and Efficiency Improvement in Industrial Sector
- Reuse, Recycling and Recovery

- Waste Water Handling
- Guidelines for Exploration and Resource Creation
- Water Pollution & Quality Management

Water Efficiency in Construction Sector

- Grey Water Use
- Rain Water Harvesting
- Water-Efficient Plumbing Fixtures
- Irrigation and Landscaping Measures
- Water Recycling or Reuse Measures (Grey Water and Process Recycling Systems)
- Dust Suppression (Damping Down)

Water Resources: Availability, Management, Quality

- Status of Water Resources
- Water Quantity- Gaps in Demand & Supply in Various Sectors
- Water Quality Criteria for Various Uses-Present Status
- Water Exploration & Management- Latest Trends in Surface & Ground Water
- Water Quality Management
- Additional Resource Creation (Such as Rain Water Harvesting, Recycling etc.)
- Population Growth, Urbanization, Economic and Industrial Development
- Global Climate Changes & Impact on Water Resource 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



Speakers/Authors



Justice Swatanter Kumar
(Retd.) and Former Chairperson,
National Green Tribunal



Mr. U.P. Singh
Secretary, Ministry of Water Resources,
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Construction Industry Development Council



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Chair Prof & Chairman,
Manav Rachna International University



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Govt. of NCT Delhi



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Former Chief Engineer,
(Environment Management),
Central Water Commission, New Delhi



Aqua Foundation's Excellence Awards 2018

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 2018:



Justice Swatanter Kumar (Retd.)
Life Time Achievement



Bridgestone India Pvt. Ltd.
Water Management
(Private Sector)



Earth Water Limited
Breakthrough Water Technology
Company of the Year (Private Sector)



SJVN Limited
Sustainable Development in Hydropower Sector
(Public Sector)



NTPC Limited – Kawas Gas Power Project
Sustainable Development in Thermal Power Sector
(Public Sector)



Kodaikanal International School
Excellence in
Promoting Environmental Awareness



Dr. Naveen B. P.
Associate Professor, Amity School of Engineering &
Technology Amity University Gurgaon
Professional Excellence (Individual)



Ms. Vinita Dhawan on behalf of
Mrs. Suruchi Gandhi
Principal, Bal Bharti School- Dwarka
Professional Excellence (Individual)



Mr. K. Jayaraj
(Research Scholar, Gandhigram Rural Institute)
Protection of the Quality and Supply of
Freshwater Resources (Individual)



Mr. Vinod Kumar Jaiswar on behalf of
Dr. Abhijit Maiti
Associate Professor, Indian Institute Technology, Roorkee
Academic Excellence (Individual)

Glimpses 2018



Glimpses 2018



Glimpses 2018



Glimpses 2018



Glimpses 2018



Recommendations of XII World Aqua Congress

- Enhancing water use efficiency needs greater focus and action in all the sectors i.e. Agriculture, Rural, Industrial & Urban.
- Government alone can not be expected to carry out this massive task which involves awareness, technology and funding. A collective effort by Government, NGOs, Industry, Technology Providers and all Stake Holders therefore is mandatory to enhance efficiency in all the sectors.
- Setting up of 'Bureau of Water Efficiency' is need of the hour, which should carry out research on technologies for water efficiency, create public awareness and rate various products based on their efficiency, on lines of what is being done by 'Bureau of Energy Efficiency' in energy sector.
- Agriculture sector, the biggest user of fresh water resources, needs urgent attention and modern techniques of drip irrigation, sprinklers, etc., needs to replace traditional irrigation systems. NGOs need to play major role by interacting with farmers at root level. Government needs to come up with required funding for adopting these modern techniques.
- In villages, water bodies be developed for storage of water and recharging of the ground water. Program/ projects should be prepared for every village for water harvesting & Ground water recharge as per demand / water budget.
- Involvement of the community for water management through Panchayats is need of the hour. Capacity building programs at Panchayat level need to be conducted. Every Panchayat should be explained concept of water budget and be made aware of water level situation in their area. This would enable stakeholders have a first-hand feel of depleting water levels prompting positive action at their end.
- A mobile App should be developed enabling citizens report wastage of water, and App should transfer this information to concerned department for immediate action. This would empower every citizen to contribute towards stopping water wastage and would further create an eco-system and culture of water conservation.
- There is an urgent need of capacity building in water sector. Ministry of Water Resources & 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.
- 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.
- Rain water harvesting for apartments in urban area should be mandatory for every cities and its functioning should be inspected periodically at least during rainy season.
- We need to promote the use of ground water monitoring tools, including GIS mobile phone based app, water table depth measurement kits, water quality probes and gauge board templates for water bodies and check dams.
- National Water Policy (NWP) has spelt our various measures for improving Water Use Efficient in all areas of Water Sector. NWP should be backed by suitable legislation so that so that various measures recommended by it are actually implemented by the concerned agencies, particularly the states.
- Awareness is very low about the scarcity value of water. There is an urgent need to create awareness among various water user groups regarding water conservation, to prevent large scale wastage of water. Community participation should be encouraged in all areas of Water sector to promote water conservation and improve water use efficiency
- The subject of water is being dealt by many ministries/ departments both at the center and states. The coordination between these departments should be improved to ensure that while various aspects of water sector are covered, there is no duplication of efforts
- Water Conservation Audit for Industries should be made mandatory at two years interval. Audit can be done by authorized neutral agencies. Targets for reducing the Specific Water Consumption should be given to Industries. Thermal Power Plants have already been given such targets, other industries should be covered in the same line.





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- Alternative Futures
- Andraego, Italy
- Anely University, Gujraon
- Aqua Xplor, Lucknow
- Bhakra Beas Management Board
- Bridgestone India Pvt. Ltd
- Canar Trading WLL, Bahrain
- CGO Triangon
- Central Board of Irrigation & Power
- Central Ground Water Board
- Central University of Jharkhand, Raechi
- Central Water Commission
- Chaitanya Instruments Pvt. Ltd.
- Construction Industry Development Council
- CSIR-Central Building Research Institute
- Delhi Jal Board
- Department of Science & Technology
- Delhi Technological University
- DNI-Global, India
- Durban University of Technology, South Africa
- Earth Water Limited
- Enhanced WAPP Systems (I) Pvt Ltd.
- Electrical Research and Development Association, Gujarat
- Energy And Environment Foundation
- Everything About Water
- Gandhinagar Rural Institute, Tamil Nadu
- Goldelive Geo, Sweden
- IIT, Roorkee
- Indian Quality Centre
- Indian Society of Agrilicloners Professionals
- International Commission on Irrigation and Drainage
- IPHE, Delhi Regional Centre
- Irrigation Management Training Institute, PWD, Tamil Nadu
- Jain Irrigation Systems Ltd.
- Kerala Water Resources Department
- Kadikonal International School
- Ministry of Water Resources, River Development & Ganga Rejuvenation, GOI
- Narmada, Water Resources, Water Supply and Kalpana Department, Gujarat
- National Bank for Agriculture and Rural Development
- National Committee on Plasticulture Applications in Horticulture, New Delhi
- NEC Secretariat, Shillong
- NTPC Limited
- Orissa Water Resources
- Orion Appliances Pvt. Ltd.
- PARSAN Overseas Pvt. Ltd.
- PHD Rural Development Foundation
- Reliance Foundation
- SIGMA Foundation
- SJVN Limited
- Smart Water & Waste World
- SSA Steel Ltd
- TERI School of Advanced Studies
- THDC India Limited
- Vel Tech Rangarajan Dr. Sagaythala R & D Institute of Science and Technology, Chennai
- WAPCOS Limited



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Gulmohar Hall

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Proceedings

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Aqua Foundation Academy

For more information, visit: www.aqua-foundation.org

AF's Excellence Awards Ceremony
 23rd November, 2018, New Delhi, India

[Grid of award categories and winners]



Feedback

Information/Communication



■ 96%
■ 2.5%
■ 1.5%

Venue and Arrangements



■ 92.5%
■ 6.5%
■ 1%

■ Excellent ■ Very Good ■ Good ■ Poor ■ Very Poor

Technical Papers and Sessions Quality



■ 95.5%
■ 3.5%
■ 1%

Overall Hospitality of Organizers



■ 98.5%
■ 1.5%

Testimonials

Many water related events are organised in Delhi every year. I can say this is the best of all.

Er. R K Khanna
Ex-CWC

The event was very inspirational and motivational in respect of water conservation.

Shri Ashok Singh Panwar
BBMB

It was a well organised event backed by a committed and earnest team.

Dr. Akash Sondhi
TERI

Very well arranged and coordinated. The jury members of excellence awards were eminent personalities. Wish you all the very best for taking up such a noble cause. Shall be a spokesperson for Aqua foundation.

Shri C.V. Subramanian
NTPC

It was really an informative & well planned conference organised by AQUA FOUNDATION. This will not only be helpful in creating awareness and scientific knowledge among delegates and participants but will also aid the common people in understanding the main theme of the conference

Shri Vinod Kumar Dubey
DJB

World Aqua Congress organisation for the last 12 years tirelessly with high spirits and enthusiasm works for a Noble Cause.

Shri Anil Anant Bhagwan
CANAR- Bahrain

Each session was methodically conducted. There was hardly any time overrun. The organizing team handled the whole event very well.

Shri Surender Makhija
Jain Irrigation

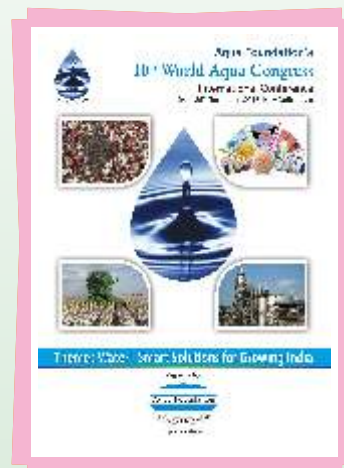
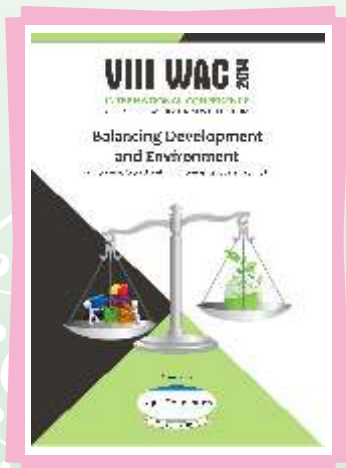
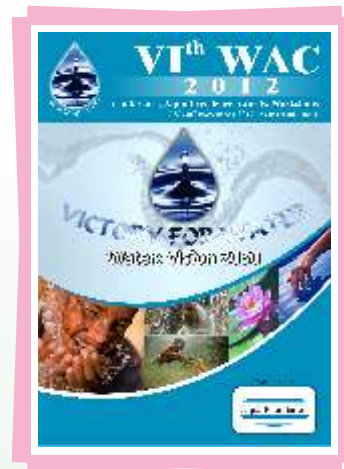
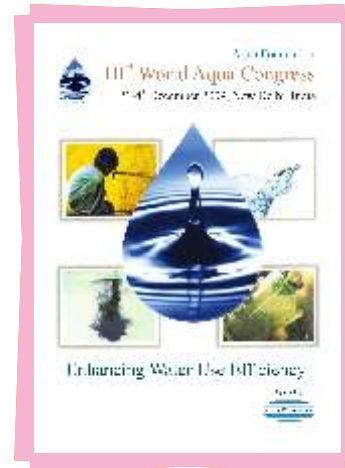
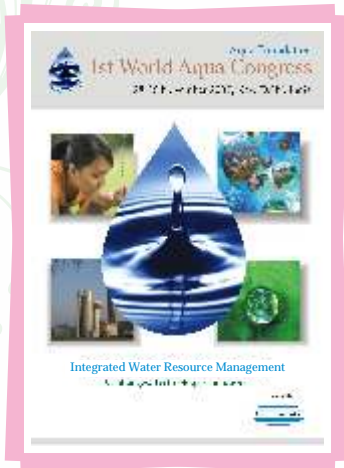
The theme and the arrangements and the time line and schedule followed for the event was excellent.

Shri Ashwani Matolia
NTPC



Previous World Aqua Congress - Themes & Topics

Previous conferences addressed the issues of Water Resources Availability, Management & Quality (2007), Global Climate Change & Water Resources (2008), Enhancing Water use Efficiency (2009), Emerging technologies in the water Sector-Present Status & Need for the future (2010), Adaptive & Integrated Water Management (2011), Water : Vision 2050 (2012), Balancing Panch-Tatwa (Five Elements) Strategically Towards Sustainability (2013), Balancing Development and Environment-Economic Growth with Environmental Sustainability (2014), Reviving Traditional Water & Environment Conservation Techniques (2015) and Water - Smart Solutions for Growing India (2016), Theme: Water & Environment Solutions: Cutting Across Borders - Presenting Best Practices from Across the World (2017).



“If you cannot love each other
you cannot achieve your goal”



Aqua Foundation

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