



Karnataka State
Pollution Control Board



CED, SET
Jain University



CED UVCE
Bangalore University



International Conference & Exhibition On Best Practices in Sustainable Water, Waste Water & Energy Management



August, 17 - 19, 2016

JN Tata Auditorium,
National Science Seminar
Complex, IISc Campus
Bengaluru, India

in association with:

- Karnataka State Pollution Control Board
- Central Groundwater Board, Bengaluru
- Center for Water Resources Development and Management, Calicut
- Indian National Academy of Engineering (INAE)
- Institution of Engineers, India

Chief Patron

Sri Vajubhai Rudabhai Vala, Hon. Governor of Karnataka & Chancellor, Bangalore University

Padma Vibhushan Dr. K. Kasturirangan,

Chairman - Karnataka Knowledge Commission; Member - Planning Commission; Former Chairman - Indian Space Research Organisation

Er Lakshman, Chairman - Karnataka Pollution Control Board, Bangalore

Patrons

Dr. Chenraj Roychand, Chairman - JGI; President - JU Trust

Prof. B. Thimme Gowda, Vice- Chancellor, Bangalore University

Dr. C. G. Krishna Das Nair, Chancellor - Jain University

Dr. N. Sundararajan, Vice Chancellor - Jain University

Rtn. Dr. M. K. Panduranga Setty, President - RV Institutions, Bengaluru

Dr. J. Gururaja, World Bank Expert in Renewable Energy

Dr. R. Natarajan, Former Director, IIT(M) and Former Chairman, AICTE

Dr. B. N. Suresh, President, INAE

Co- Patrons

Dr. R. D. Deshpande, Scientist, Physical Research Lab., Ahmedabad

Dr. Sudhir Kumar, Scientist, National Institute of Hydrology, Roorkee

Mr. Anil Kumar, IAS, Secretary to Government - Urban Development

Mr. Anjum Pervez, IAS, Chairman BWSSB

Ms. Rathna Prabha, IAS, Principal Secretary, Industry & Commerce

Dr. K. R. Venugopal, Professor & Principal, UVCE, Bangalore University

Dr. Jayagopal Uchil, Director (Academics), Jain University

Dr. Sandeep Shastri, Pro Vice Chancellor, Jain University

Dr. N. V. H. Krishnan, Registrar, Jain University

Dr. Krishna Venkatesh, Dean Engineering & Technology, Jain University

Maj. Gen. (Retd.) Dr. R. Sivakumar, Pro-Vice-Chancellor(R&D), GITAM University

Dr. A. Veeraragavan, Professor, IIT(M)

Convenor

Sri. Y. A. Narayanaswamy, MLA

Organizing Secretaries

Dr. Shashishankar. A., Professor and Head of Civil Engg., Jain University

Dr. M. Inayathulla, Professor in Civil Engineering, UVCE, Bangalore University

Chairman

Prof. V. Jagannatha, Scientist Engineer, CMD, ISTRAC, ISRO & President, EAB Bengaluru.

Rotarian Suresh A., Leading Structural Consultant

SWWEM-2016 is International Conference Jointly organized by JAIN UNIVERSITY & BANGALORE UNIVERSITY and aims at bringing together researchers, academicians, practicing engineers, Industries and all other alike quarters of sustainable management of water, wastewater and energy. The themes of the conference are laid down by taking into considerations recent scientific developments in the areas of Water Resources, Wastewater and Energy management, in addition to latest software technology and observations systems.



About the Conference

Fresh water availability greatly depends on the resilience of the ecosystem to various kinds of stresses such as food production, deforestation, groundwater withdrawal for domestic use and so on. Further, urbanisation coupled with industrialization is increasing the pressure on the surrounding ecosystems to get food and water on one hand and contamination of the available fresh water on the other hand, as many cities have little or no wastewater management system, especially in the developing and less developed countries. Wastage of food is further compounding these stresses. Water related hazards, which are common in these countries account for more than 80 percent of all natural hazards and their frequency and intensity are on the rise.

On the positive note, there is a silent revolution in accessing the wholesome drinking water in rural India. RO and UV systems have been installed by private entrepreneurs in the majority of villages, while not much importance has been given for providing improved sanitation systems. Another important challenge is the management of groundwater which is providing huge buffer to the recurring droughts in arid and semi-arid regions. But its continuous exploitation and consequent depletion even in the confined aquifer systems in the Gangetic plains are calling for immediate remedial action.

In the context of changing water demands and climate change, there is a strong need to assess the resilience of the ecosystems with appropriate scientific tools to develop cost effective, socially acceptable and sustainable technologies.

In this crucial context, the Civil Engineering Department, Jain University is organizing the International Conference on Sustainable Water, Wastewater and Energy Management, during August 17-19, 2016

Jain University

Jain University is a cerebral destination that draws inspired students from more than 25 countries to one of the world's greatest cities- Bangalore. Our education empowers individuals to challenge conventional thinking in pursuit of original ideas. A place for highly ambitious students and professionals who want to excel in career and become hardcore experts in their area of interest. In all we do, we are driven to dig deeper, push further, and ask bigger questions and to leverage our knowledge to enrich all human life.

The Civil Engineering Department at the School of Engineering and Technology (SET) is part of the Faculty of Engineering & Technology. SET is firmly focused on delivering a first class educational experience that equips you for life and career. Our superb teaching and research facilities coupled with our practical, forward thinking programmes will help to prepare you for success in the undergraduate / postgraduate engineering study. You'll enjoy a distinctive, high quality academic experience focused on developing your skills and knowledge to help you transition smoothly into the world of work at the end of your studies.



CED, SET
Jain University

Bangalore University

Bangalore University is located in the Garden City of Bangalore aptly hailed as the "I.T. Capital of India", was established in July 1964 as an off shoot of the University of Mysore, primarily to include institutions of higher learning located in the metropolitan city of Bangalore and the districts of Bangalore, Kolar and Tumkur, which eventually became a separate university.

UVCE was established in the year 1917, under the name, Government Engineering college by BharatRatna Sir M Visvesvaraya, and was affiliated to University of Mysore. It is the 5th Engineering College to be established in the country after the formation of Bangalore University in 1964, UVCE became one of the constituent college of Bangalore University. This is one of the oldest technical institutions in the country, imparting technical education leading to B.E, M.E, B.Arch, M.Sc (Engineering) and Ph.D degrees in various disciplines of Engineering and Architecture. It has completed 98 years of academic excellence since its inception.

The Civil Engineering Department at Jnana Bharathi Campus with a built-up area of 8800 sq. m., was offering only under graduate courses (B.E.) in Civil Engineering till 1960 and later started PG courses (M.E. in Structural Engineering and Geo-technical Engineering). Now, the department offers PG courses in eight different fields of specialization. It is one of the Quality Improvement Programme Departments of the MHRD offering admissions to M.E and Ph.D programmes for the teachers drawn from AICTE approved engineering colleges.



CED UVCE
Bangalore University

Rotary International

Rotary is a premier service organisation of the world with an enviable trail of service projects that has impacted human lives across the globe. Founded in 1905 in Evanston, USA, Rotary has been instrumental in driving the world-wide Polio Eradication Program. To achieve its goal of service to humanity and touching lives world over, Rotary takes up projects in key areas of **Peace and Conflict Resolution, Disease Prevention and Treatment, Water and Sanitation, Maternal and Child Health, Basic Education and Literacy and Economic and Community Development.**

Rotary brings together professionals and business leaders to form a world-class organisation of dedicated, committed and driven achievers to serve humanity anywhere in the world.





Participation

The conference is open for University / College Faculty, Environmental Managers, Agriculturists, Research Students, Representatives from R&D organizations, Government Departments / Organisations, Expert NGOs / International NGOs, Representatives From Industries, Administrators, Policy Makers, Sociologists, Economists, Committed Environmental Activists And Eco-philosophers.



Deadlines to Remember

Submission of Abstracts	30th , April 2016
Acceptance of Abstract	10th, May 2016
Second & Final Circular	15, May 2016
Submission of Full Papers camera ready form	30th , May 2016
Early Registration	15th , July 2016
Conference Date	17-19, August 2016

Call for papers

Papers are invited showing recent trends in the sub themes with a focus on cost effective and innovative technologies that can be replicated in the developing countries. All submissions must be in electronic form and hard copy as per the scheduled date along with a duly signed copyright form. The proceedings of the conference will be published in standard format with ISBN No. Abstracts must be submitted online on the Conference website <http://www.swwem.com> or send to drinayath@gmail.com, Participants are required to make preliminary registration by filling the online form before submission of their Abstracts.

Guidelines for submission

Abstract should be submitted in English. The abstract is limited to 300 words. Figures and Tables may not be included as part of the abstract. Prospective authors are invited to submit original technical papers for publication in the conference proceedings and for presentation during the conference. The received paper(s) will be reviewed and scrutinized by the basis that they do not contain any plagiarized material and have not been submitted to any other conference. Authors should submit only those papers that have been carefully proof-read and polished. For manuscript development, download the copyright transfer form and the paper template from www.swwem.com

Publications

Detailed instructions will be posted on the Conference Website and will be sent to the contributors of accepted abstracts. Technical papers shall follow IEEE Format.

All accepted papers would be published in the indexed proceedings of International Conference SWWEM-2016. Reviewed papers will be published in Elsevier Journals in special volumes

Conference Themes

I Sustainable Water Solutions

Practical Innovative Solutions on:

1. WSSCC Vision 2020 and Case Studies
2. Impact of Global changes on River Basin
3. Urbanization and water resources management
4. Water management in dry land agriculture and irrigation systems
5. Water-Energy-Waste Nexus
6. Water and Food in the Cities
7. Models and its Application in water management
8. Quality Analysis and Contaminant Detection

II Groundwater Management

1. Best Practices for Metropolitan & Medium size towns
2. Aquifer characterization and mapping
3. Aquifer Storage and Recovery System - Operations, Management and Policies
4. Flow and Contaminant Transport Modeling
5. Groundwater Impacts of Recharge and Infiltration
6. Groundwater Management, Monitoring, and its Uncertainty
7. Groundwater - Surface Water Interactions & Conjunctive Use of Water Resources

III Water Quality & Health

1. Water Pollution & its Control
2. River water Pollution & its control
3. Contaminants of Emerging Concern
4. Radioactive Contamination
5. Water Quality Monitoring Systems
6. Water-borne Pathogens and Diseases

IV Sustainable Wastewater Treatment Technologies

1. Wastewater Treatment Plants.
2. Innovative and low-cost Technologies for Sewage Treatment
3. Sewer Networks Modelling.
4. Industrial Wastewater Treatment

V Water Management & Policy

1. Strengthening Water Governance for sustainability
2. Progress in water protection and remediation
3. Agriculture stress and water management
4. Integration with economic, social and cultural aspects

VI Energy Management

1. Energy from wastewater
2. Water Energy Sustainability
3. Renewable sources of energy-energy savings

VII Innovations and Best Practices in Water Conservations

1. Best Practices in Rainwater Harvesting in Urban and Industrial sector
2. Best Practices in water wastewater Management in domestic & Industrial Sector

VIII Isotope Applications

1. Isotopes in precipitation and its implications
2. Isotope technological achievements and their applications
3. Field applications of isotopes in groundwater or surface water resources
4. Isotope techniques in environmental geochemistry.
5. Groundwater dating
6. Isotopic tools applied to contaminants

IX Best Practices in Urban management

1. Role of Civic Bodies, RWAs and NGOs
2. Lessons from JnURMS and Smart Cities
3. Best Practices in agriculture, Industries, Urban and Service Sector and compliance to KSPCB

Workshops: Best Practices Documentation using UN formats in Water, Waste Water and Energy Systems

An exhibition cum book fair having products and services related to Sustainable Energy has been planned during the conference. Interested organizations/ individuals dealing in efficient products, Power Equipments & Machines, etc. should contact the organizing secretary for booking the stalls.



Who should join the conference & the exhibition

Educational and R&D Institutes, Industries, Government Departments, Faculty/Professors, Scientists & Researchers, Senior, Middle & Junior Level Officer In Industries, Equipment Manufacturers & Suppliers On Water, Waste Water, Environment Protection, Lab Testing Services & Technology Providers, Representatives Of Private Sectors Involved In Generation And Handling Solid & Liquid Waste, Recycling Companies, Consultants & Contractors Providing Services For SWWEM, Funding Agencies, Trainers, Technology/service Providers, Engineering & Monitoring Services Providers, Environment And Production Personnel, Officers From Government Departments & PSUs, Real Estate Developers.



ULBS, REGULATORS & NGOS

Mayor, Chairman, Commissioners, MICs, CICs, Councilors, Urban Planner, Environment Engineers / officers, Sanitary Inspectors, SAEs, officers / supervisors in charge of SWM in ULB, City Councils & local authorities, Regulators e.g., PCB, CPCB, Urban Environmental Non-Government Organization (NGOs) & CBOS, Waste Management Associations.

Registration Fee

	Indian (₹) Before 15 JULY 2016	Indian (₹) After 15 JULY 2016	Foreign (US\$) Before 15 JULY 2016	Foreign (US\$) After 15 JULY 2016
Delegates from industry and R&D	5000	6000	200	250
Faculty	3000	4000	150	200
Research Scholar	2500	3000	100	100
Accompanying person other than delegate	1000	1500	100	100

PAYMENT DETAILS:

Payment may be made online by visiting www.swwem.com or by demand draft drawn in favour of **SWWEM-2016, payable at Bangalore** and sent to **Dr. A. Shashishankar, Professor and Head of Civil Engineering, Jain University, Bengaluru** and email to **drinayath@gmail.com, suresh.rotary@gmail.com** Registration fee includes one copy of the Proceedings of the Conference, Souvenir, Conference Kit, 1st Day Dinner and working lunch during the Conference.

DETAILS OF THE BANK:

Name of the Bank : Bank of Maharashtra
Account Name : SWWEM-2016
IFSC Code : MAHB0000304
Account Number : 60215624780
Abroad countries SWIFT CODE : MAHBINBBGL
Corresponding Bank account no. : 2000193008140 for USD
Corresponding Bank Code : PNBPU3NNYC for USD
Corresponding Bank account no. : 5602507019 for EUROS
Corresponding Bank Code. : ABNADEFFRA for EUROS

Contact (Organising Secretary - SWWEM 2016):

Dr. Shashishankar.A

Professor and Head of Civil Engg.,
School of Engineering and Technology,
Jain University, Jakkasandra Post, Kanakapura Taluk,
Ramanagara District.
M: 9663932900, Residence: 080- 26695643

Dr. M. Inayathulla

CED, UVCE, Bangalore University
Jnanabharathi Campus, Bengaluru
M: 9980210466, 9008237470
E-mail: drinayath@gmail.com, dr_inayath@yahoo.com

Travel & Accommodation

All necessary information on travel within India, hotel accommodation in Bengaluru and other local arrangements will soon be published on the Conference Website.

Reception Desk will be set up at Kempegowda International Airport to welcome the delegates and guide them to their respective hotels.

Further itineraries & costs of pre & post - Conference excursions will be posted on the Conference Website .

Accommodation at moderate cost (varying between Rs. 1,000/- to 3,000/- per night per person) may be provided in the Guest rooms / Hostels to those who will book in advance by email and the booking fees before 15 December 2015. Tariff of other Hotels which are closer to the venue will be given in the website.



SWWEM
Sustainable Water, **2016**
Waste Water & Energy Management
17-19, August 2016, Bengaluru, INDIA

Administrative Committee

Dr. N. V. H. Krishnan, Registrar, JU
Mr. Santhosh, Joint Registrar, JU
Mr. M. S. Parswanath, Director, Projects & Facilities, JU
Dr. Gopala Krishna K, SET, JU
Dr. V. Muralidhara, SET, JU
Dr. C. B. Mohan, SET, JU
Er. C P Ramesh, SET, JU
Er. H R Pradeep, SET, JU
Er. Abhilash R, SET, JU
Er. Skandakumar B N, SET, JU
Er. Vinay S, RS IISc

International Advisory Committee

Dr. Pradeep Aggarwal, Head, IHS, Manager WRP, IAEA, Vienna
Dr. Prasad S. Thenkabail, US G S, USA
Dr. Raj Kurup, CEO, EE International, Australia
Dr. Phanikumar M.S., Michigan State University, USA
Mr. Trudi Schifter, CEO TallyFox, Switzerland
Ms. Ilana Cohen, Greater London, United Kingdom
Mr. Roger Falconer, President IAHR, & CH2MHILL.
Mr. Besancon, Axelle, Wastewater Treatment, France
Dr. Abdelazim M. Negm, Prof. Zagazig University, Egypt
Ms. Vishaka Rajput, TallyFox, Switzerland
Mr. Kenge James, Global Water Partnership, Sweden
Dr. Lotfi BACCAR, Water resources specialist - Tunisia
Dr. Bhisim Kumar, Isotope Hydrologist, IAEA, Austria, International affairs
Dr. Vijay P Singh, Prof. CEE, Texas, USA
Dr. GoenHo, Professor, Murdoch University, Australia
Dr. Avaneesh Panikar, Consulting Engineer, Sydney
Mr. Brendan Doherty, Director, RRRC, Perth
Dr. Steven Riley, Prof. University of Western Sydney
Dr. Paul Harris, Faculty, University of Adelaide
Dr. Hari Venkatachalam, Waste Management, Australia
Mr. Tony O'Kelly, Waste Management, Australia
Mr. Elhassane, Suez Environment, Saudi Arabia
Mr. Juan Jose Gomez Alday, University of Castilla, Spain
Prof. Neil Coles Director, University of Western Australia

Scientific committee

Dr. K. Ranga, Former Registrar, Principal & Professor, BU
Dr. K. G. Rangaraju, Former Professor IIT Roorkee
Dr. G. Ranganna, Former Professor and Dean NIT-K
Dr. Rama Narasimha, SET, JU
Dr. V. Lakshmi Narayan, Former Professor IIT Kanpur
Dr. M. R. Pranesh, Former Professor, IIT Madras & SET, JU
Dr. Y. R. Nagaraja, Former Professor, IIT Madras & SET, JU
Dr. N. Krishnamurthy, Professor in EEE, SET, JU
Dr. T V Ramachandra, CES IISc

National Advisory Committee

Dr. E. J. James, Director, Karunya University
Dr. K. Vasu, Head Isotope (Retd.) CWRDM, Kerala
Dr. I. S. Shivkumara, Prof. UGC DSA, BU
Dr. V. Lakshminarayana, Former Prof. IIT Kanpur
Dr. N. Manmohan Rao, Retd., CED, BUB
Dr. K. G. Ranga Raju, Former Prof. IIT Roorkee
Prof. M. K. Nagaraj, Prof. NITK Surathkal
Prof. Santosh G Thampi, Prof. NITK, Calicut
Dr. G. S. Dwarkesh, NITK Surathkal
Dr. B. M. Doddamani, NITK, Surathkal
Sri L. R. Ranganath, Sr. Scientist, CWPRS, Pune
Dr. V. Sudarshan, Head Env. Studies, OU, Hyderabad
Dr. R. D. Deshpande, Dept. of Space, Gujarat
Dr. M. S. Mohan Kumar, Prof. IISc, Bangalore
Prof. P. P. Mujumdar, Prof. IISc, Bangalore
Prof. Muddu Shekar, Prof. IISc, Bangalore
Prof. D. Nagesh Kumar, Prof. IISc, Bangalore
Syed Khaja Mohiddin, Special Officer to CM
Dr. Ashok Reddy. K., Scientist, KRSRAC, B'lore
Dr. P. B. Lakshmikantha, Scientist, KRSRAC, B'lore
Dr. R. C. Agnihotri, Professor, Geo-statistics, Lucknow
Dr. C. Sadashivaiah, Prof. & Head, CED, SJBIT, B'lore
Dr. Avadhesh Bhadauria, Prof. GEC, Goa
Sri H. B. Jagadeesh, Sr. Scientist, CWPRS, Pune



SWWEM
Sustainable Water, **2016**
Waste Water & Energy Management
17-19, August 2016, Bengaluru, INDIA

Secretariat:

SURESH & ASSOCIATES

Architects & Consulting Engineers
19/1, 1st Floor, Sankey Road,
Bengaluru 560 020. INDIA

eMail: info@swwem.com

shashianant@gmail.com

suresh.rotary@gmail.com

Tel: +91 99802 10466, +91 80 2848 8602

+91 96639 32900, +91 80 2669 5643

+91 98440 46122, +91 80 2336 6092