



## INTERNATIONAL CONFERENCE

On

Water and Wastewater Management and Modelling (ICWWMM-2018)

January 16-17, 2018, Ranchi, Jharkhand, INDIA

### Conference Programme Schedule

Venue: University Auditorium

#### DAY 1: JANUARY 16, 2018 (TUESDAY)

08:30-09:30 am	Participants check-in and Registration	
09:30-09:50 am	Inaugural speech and Welcoming of Guests	Moderator: Pratibha Warwade
	Lightening of lamps and Welcome Song	Dignitaries
09:50-10:00 am	Opening Remarks	Dr. Ajai Singh Central University of Jharkhand
10:00-10:05 am	Welcome Address	Prof. H. P. Singh, Central University of Jharkhand
10:05-10:15 am	Address by Guest of Honour	Er. A C M Zulfikar, Chairman Water Resources Board, Sri Lanka
10:15 -10:25 am	Address by Chief Guest	Secretary, Drinking Water and Sanitation Department, Government of Jharkhand, Ranchi
10:25-10:35 am	Presidential Address	Prof. Nand Kumar Yadav 'Indu' Vice Chancellor, Central University of Jharkhand
10:35-10:40 am	Vote of Thanks	Dr. P. K. Parhi Central University of Jharkhand

#### National Anthem

#### GROUP PHOTO AND HIGH TEA (10:40 – 11:00 AM)

#### TECHNICAL SESSION 1 (11:00 AM - 1.00 PM) – WASTEWATER TREATMENT AND RE-USE

**Chairman :** Er. A C M Zulfikar, Chairman, Water Resources Board, Sri Lanka

**Co-Chairman:** Dr. Manoj Kumar, CJU, Ranchi

**Rapporteur :** Dr. Sushil Kumar Shukla, CUJ, Ranchi

**Key Note Address 1:** 'To identify strategies and innovative water saving technologies particularly suitable to developing countries in the context of reuse of wastewater' by **Er. A C M Zulfikar**, Chairman, Water Resources Board, Sri Lanka

**Key Note Address 2:** 'Ensuring Clean Water and Water Induced Risk Reduction: Challenges and Opportunity on SDG-6' by **Professor R.B. Singh**, Department of Geography, Delhi School of Economics, University of Delhi, Delhi

**Note :** All the presenters will be given 7 minutes each to present their research paper

Sl. No.	Title of Paper	Name of the Presentator
1.	Vermifiltration of arsenic contaminated water using Vermifiltration technology – a novel bio-filter model	Chandrajeet Kumar
2.	Performance of aerobic granular reactor treating organics and ammonia nitrogen with time	Sachin Tomar
3.	Biological treatment of lab based solid-liquid waste for water management	Anil Kumar
4.	Nanoscale zinc remediates water pollution	Biplab Sarkar
5.	Aspects of improving productivity in steel plant through effective water management	Subhajit Mitra Majumdar
6.	Design, development and performance evaluation of small scale grey water treatment plant	Sunil Patil
7.	Effective treatment procedure of potable water treatment & reuse of waste water in water works.	Arun K.r Jana, JUSCO, Jamshedpur

#### TECHNICAL SESSION 2 (1:00 PM - 3.30 PM) - FLOOD AND SURFACE WATER MANAGEMENT

**Chairman:** Prof. Dr. M. Monowar Hossain, Executive Director, Institute of Water Modeling, Dhaka, Bangladesh

**Co-Chairman:** Dr. V. K. Tripathi, BHU, Varanasi

**Rapporteur:** Dr. Amit Kumar, CUJ, Ranchi

**Key Note Address 1:** 'Flood and Flood Management Initiatives in Bangladesh' by **Prof. Dr. M. Monowar Hossain**, Executive Director, Institute of Water Modelling, Dhaka, Bangladesh.

**Key Note Address 2:** 'Saline Water Intrusion in Coastal Areas: A Case Study from India' **Dr. Amartya Kumar Bhattacharya**, Chairman and Managing Director, Multi Spectra Consultants, Kolkata

**Note:** All the presenters will be given 7 minutes each to present their research paper

Sl. No.	Title of Paper	Name of the Presentator
1.	Spatial variability in the water quality of Chilika lagoon, east coast of India	Sadaf Nazneen
2.	Detection of coliform bacteria in water samples taken from India Mark-II hand pumps in Rohilkhand region, Uttar Pradesh.	Suresh Kumar
3.	Drought and El Nino in north eastern region of India	Pratibha Warawde
4.	Efficient reservoir operation with multi-objective analysis	Priti Sagar
5.	Mollusc as a tool for river health assessment: a case study of river Ganga at Varanasi	Ipsita Nandi
6.	Assessment of silt inflow into the Gonda reservoir	Madhukar Shukla

### LUNCH BREAK ( 02:00 – 03.00 PM)

#### TECHNICAL SESSION 3 (03.30 - 05.30 PM) - POLICY INSTRUMENTS AND INSTITUTIONS TO MANAGE WATER CHALLENGES

**Chairman** : Dr. Atul Singh, Editor, Fair Observer, USA

**Co-Chairman** : Sri Kumar Prechand, Water, Sanitation and Hygiene Specialist, UNICEF, Ranchi

**Rapporteur** : Dr. Birendra Bharti, CUJ, Ranchi

**Key Note Address 1:** 'Response to India's Water Crisis: Independent Institutions, National Policy and Grassroots Efforts' by **Dr. Atul Singh**, Editor, Fair Observer, USA

**Key Note Address 2:** 'Enabling Environment with Technology to improve water use efficiency towards building resilience and water security' by **Dr. Ajay Pradhan**, President & CEO, C2S2 Pvt. Ltd., New Delhi

**Key Note Address 3:** 'Water Security Challenges' by **Dr. Mukand S. Babel**, Professor, Water Engineering and Management (WEM), Asian Institute of Technology, Thailand.

**Note: All the presenters will be given 7 minutes each to present their research paper**

Sl. No.	Title of Paper	Name of the Presentator
1.	East Kolkata wetlands (EKW), India-a unique example of resource recovery	Anita Chakraborty
2.	Integrated water resource management plan	Anil Kumar, Ch2M
3.	Zero Liquid Discharge	Amitava Mukherjee Representative, M/S Ion Exchange, Kolkata
4.	Representative from M/S Luri Watersystems, New Delhi	Atul Surin
5.	Assessing water security: a vital strategy to sustainable water management	Mukand S. Babel

### HIGH TEA

**CULTURAL PROGRAM : 07.00 – 8.30 PM**  
**VENUE:** BNR CHANAKYA, RANCHI

**GALA DINNER : 08.30-09.30 PM**  
**VENUE:** BNR CHANAKYA, RANCHI (with invitation)

### DAY 2 : JANUARY 17, 2018 (WEDNESDAY)

#### TECHNICAL SESSION 4 (9:00 - 11:30 A.M) – GROUNDWATER MANAGEMENT AND MODELLING

**Chairman** : Dr. Flemming Jakobsen

**Co-Chairman** : Dr. Ajai Singh, CUJ, Ranchi

**Rapporteur** : Dr. Pratibha Warwade, CUJ, Ranchi

**Key Note Address 1:** 'Strengthening Smart Water Management and Urban Climate Change Resilience in Tamil Nadu' by **Dr. Flemming Jakobsen**, Managing Director, **DHI (India) Water & Environment Pvt. Ltd.**, New Delhi

**Key Note Address 2:** 'Application of Mathematical Models For Managing Artificial Recharge and Pumping' by **Dr. S.N. Rai**, Ex-Honorary Visiting Fellow, IIT, Roorkee & Ex-Chief Scientist, CSIR-National Geophysical Research Institute, Hyderabad

**Invited lecture:** 'Finite Difference and Finite Element Solutions of Ground Water Mound Formation in Sloping Aquifers' by **Dr. Asutosh Upadhyaya**, Pr. Scientist, ICAR, Patna

**Note: All the presenters will be given 7 minutes each to present their research paper**

Sl. No.	Title of Paper	Name of the Presentator
1.	Simultaneous biological removal of arsenic, iron and nitrate from groundwater by terminal electron accepting process	Arvind Kumar Shakya
2.	Field exploration for hydro geologic characterization and performance evaluation of grain-size analysis methods	Sabinaya Biswal
3.	The study of chemical nature of groundwater in the western parts of Jharkhand with focus on fluoride	Neeta Kumari
4.	Delineation of groundwater potential zones in hard rock terrain using remote sensing and geographical information system (GIS) techniques	Debabrata Nandani
5.	Hydrogeological status in the core & buffer zone of Beekay steel industries limited: a case study	Utkarsh Upadhyaya
6.	Geo-hydrological investigation using vertical electrical sounding at Chinamushidiwada village in Vishakhapatnam, Andhra Pradesh, India	Kiran Jalem

### TEA & REFRESHMENT (11:30 A.M TO 11:50 A.M)

**TECHNICAL SESSION 5 (11:50 - 2.00 PM) - MANAGEMENT OF WATER RESOURCES IN AGRICULTURE****Chairman** : Prof. P. B. S Sharma**Co-Chairman** : Dr. D. K. Russia, BAU Ranchi**Rapporteur** : Dr. Purabi Saikia, CUJ, Ranchi**Key Note Address:** 'Management of Water Resources in Agriculture- Future Perspectives' by **Prof. P. B. S Sharma**, Professor & Project Director, Water Technology Centre, & Chairman, School of Resource Management, IARI, New Delhi & Professor Emeritus, IIT Delhi**Invited Lecture:** 'Water requirements and Irrigation Scheduling of Horticultural Crops under Open and Protected Cultivation' by **Prof. P. K. Singh**, Irrigation and Drainage Engineering Department, GB Pant University of Agriculture and Technology, Pantnagar**Note: All the presenters will be given 7 minutes each to present their research paper**

Sl. No.	Title of Paper	Name of the Presentator
1.	Assessment of agricultural drought using climate change initiative (CCI) soil moisture derived soil moisture deficit : case study from Bundelkhand	Varsha Pandey
2.	Using Hydrus-2D simulation model to evaluate movement of water under drip irrigation systems	Vinod Kr. Tripathi
3.	Agronomic option for arsenic mitigation: Strawberry (Fragaria x ananassa Duch) cultivation using mulch under precision irrigation in the eastern Indo-Gangetic Plain	Sanchita Mondal
4.	Efficacy of irrigation methods and bicolor polyethylene mulch on growth, yield & water productivity of Cole crops in Eastern Plateau Hill Region of India	Balkrishna Jha
5.	Response of broccoli to planting geometry and growth stage based fertigation patterns in hot and semi-arid region of India	S.S Mali
6.	Response of rice to drip irrigation in eastern India	Pravukalyan Panigrahi
7.	Water harvesting and its best management through farm pond and utilization of conserved water for vegetable crops for sustainable production in upland areas	C.R.Subudhi

**LUNCH BREAK ( 02:00 – 03.00 PM)****TECHNICAL SESSION 6 (03:00 - 5.00 PM) - WATERSHED MANAGEMENT AND HYDROLOGIC MODELING****Chairman** : Dr. Bharat Sharma, IWMI**Co-Chairman** : Dr. B.K. Jha, ICAR, Ranchi**Rapporteur** : Dr. P. K. Parhi, CUJ, Ranchi**Key Note Address:** 'Water-Energy-Food Nexus: Regional Interplays for Food Security and Resource Sustainability' by **Dr. Bharat Sharma**, Scientist Emeritus (Water Resources) International Water Management Institute, New Delhi**Invited Lecture:** 'Hydrologic Modeling of an Agricultural Watershed using Remote Sensing and GIS' by **Prof. Vinay K. Pandey**, Dean, SV College of Agricultural Engineering and Technology & Research St. IGKV, Raipur.**Note: All the presenters will be given 7 minutes each to present their research paper**

Sl. No.	Title of Paper	Name of the Presentator
1.	Variation of climatological parameters inside and outside naturally ventilated polyhouses	Ravish Chandra
2.	Analysis of urban drainage simulations of immensely urbanized watershed using PCSWMM model	Satish Kumar
3.	Rainfall variability and extreme rainfall events over Jharkhand state	Radheshyam Sharma
4.	Geochemical modeling approach for the hydrogeochemical study in the Swarnamukhi river basin, Andhra Pradesh, India	Priyanka Patel
5.	Rainfall-runoff modeling using soft computing techniques	Pratibha Kumari
6.	Rainfall forecasting using triple exponential smoothing state space model	Swati Maurya
7.	Geo-processing based hydrological sensitivity analysis and its impact on forest and terrain attributes in the Hazaribagh wildlife sanctuary, Jharkhand, India	Saurabh Kr. Gupta
8.	Identification of urban heat islands from multi temporal modis land surface temperature data - a case study of southern part of West Bengal, India.	Priti Kumari
9.	Watershed management works to increase the soil moisture in mine areas of Ramgarh District, Ranchi, India	Jane Sindhu Dang
10.	Simulation of rainfall-runoff process using HEC-HMS model for marchula watershed, Uttarakhand, India	Subodh Hanwat
11.	WATSCAN: Water Planning & Assessment Tool	Sabyasachi Nayak

**VALEDICTORY SESSION (5:00 P.M TO 6:00 P.M)**

5:00-5:10	Dr. Ajai Singh, CWEM	Briefing about the discussion in International Conference
5:10-5:20	Dr. Ajai Singh, CWEM	Distribution of Best Paper Presentation Award
5:20-5:25	Dr. P. K. Parhi, CWEM	Recommendations
5:25-5:35	Prof. Nand Kumar Yadav 'Indu' Vice-Chancellor, CUJ	Address by Chairperson
5:35-5:45	Secretary, Water Resources Department, Government of Jharkhand, Ranchi	Address by Chief Guest
5:45-6:00	Dr. Pratibha Warwade, CWEM	Vote of Thanks

**HIGH TEA AND NETWORKING SESSION****DAY 3 : JANUARY 19, 2018 (THURSDAY) (ON REQUEST- RS. 1000/- EACH)**

09:00 am

Excursion tour around Ranchi (Subway Boxed Lunch & Tea) Return at 5:00 P.M  
Meeting Point Venue : Piska More, Ranchi.

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January 16-17, 2018, Ranchi, Jharkhand, INDIA

**CONFERENCE PROGRAMME SCHEDULE**

**Venue: Computer Lab (Near University Auditorium)**

**DAY 1: JANUARY 16, 2018 (TUESDAY)**

TECHNICAL SESSION (11:00 AM - 2:00 PM) – WASTEWATER TREATMENT AND RE-USE, FLOOD AND SURFACE WATER MANAGEMENT, POLICY INSTRUMENTS AND INSTITUTIONS TO MANAGE WATER CHALLENGES

Chairman: Dr. S.N. Rai, Ex-Honorary Visiting Fellow, IIT, Roorkee & Ex-Chief Scientist, CSIR-National Geophysical Research Institute, Hyderabad

Co-Chairman: Dr. B. K. Jha, ICAR, Ranchi, Rapporteur: Dr. Kuldeep Boudh, CUJ, Ranchi

**Note: All the presenters will be given 7 minutes each to present their research paper**

Sl. No.	Title of Paper	Name of the Presenter
1.	Water Treatment using Nanomaterials	Ashutosh Tripathi
2.	Indigenous materials of plant origin have the potential to serve as a complementary water treatment agent	Amitava Rakshit
3.	Case study of 10 MLD capacity sewage treatment plant for recycling of sewage for irrigating gardens in Gandhinagar town	H V Patel
4.	Efficacy of bioline and inline drip laterals for assessing the microbial quality of two vegetable crops (cauliflower & bitter gourd) irrigated with primarily treated municipal wastewater	Deepak Singh
5.	Exploration of microbiota from water bodies to implement in water treatment and management	Vikram Kumar
6.	Seasonal variation in water quality of Kharkai and Subernrekha river of Jamshedpur, Jharkhand	Sunita Kumari
7.	A review: time scale changes in water quality of major Indian river the Ganges	Garima Jhariya
8.	Analysis of stability of a hydraulic structure	Sanny Kumar
9.	Water quality assessment of river Ganga in Varanasi of Uttar Pradesh	Pratibha Warwade
10.	Isotope techniques in spring rejuvenation in the mountainous region of Semalta watershed, Dehradun district, Uttarakhand, India	Umakant Maurya
11.	Commercialization of water for the amusements, games and sports: an analytical study	Seema Mamta Minz
12.	Groundwater governance: a legal analysis	Sonal Tiwary
13.	Flood Forecasting of Godavari River in Nashik City – A Hydrologic Approach in Lead Time Computation	Puja Kumari

**LUNCH BREAK ( 02:00 – 03.00 PM)**

**DAY 2: JANUARY 17, 2018 (WEDNESDAY)**

TECHNICAL SESSION (9:00 - 2:00 P.M.) – GROUNDWATER MANAGEMENT AND MODELLING, MANAGEMENT OF WATER RESOURCES IN AGRICULTURE, WATERSHED MANAGEMENT AND HYDROLOGIC MODELING

Chairman: Dr. Mukand S. Babel, Professor, Water Engineering and Management (WEM), Asian Institute of Technology, Thailand.

Co-Chairman: Dr. Amartya Kr. Bhattacharya, Chairman and Managing Director, MultiSpectra Consultants, Kolkata Rapporteur: Dr. Pratibha Warwade, CUJ, Ranchi

Sl. No.	Title of Paper	Name of the Presenter
1.	Ground water Prospect Mapping in Upper South Koel River Basin Jharkhand (India) based on GIS and Remote Sensing Technologies	Stuti
2.	Groundwater Recharge Feasibility at the Allahabad Museum	Vivek Tiwari
3.	Geospatial technology for mapping groundwater prospective zones in Meja block using remote sensing and GIS techniques	Vivek Tiwari
4.	Application of geospatial technologies for assessing the impact of urbanization on groundwater resources in Ranchi urban region, India	Amit Kumar

Sl. No.	Title of Paper	Name of the Presenter
1.	Effect of variable irrigation and lateral spacing on yield, irrigation production efficiency and economic return on tomato	Amarjeet Kujur
2.	Smart Irrigation	H V Patel
3.	Evaluation of gravity based drip irrigation with plastic mulch on raised bed cultivation of summer okra at farmers field in Ranchi district	Mintu Job
4.	Determination of yield response character function for spinach for Allahabad region	Soni Tirkey
5.	Pricing irrigation water: a review of current status	Sunil Paswan

Sl. No.	Title of Paper	Name of the Presenter
1.	Geo-processing based hydrological sensitivity analysis and its impact on forest and terrain attributes in the Hazaribagh wildlife sanctuary, Jharkhand, India	Saurabh Kr. Gupta
2.	Morphometric analysis of Kosi river basin using remote sensing and GIS techniques	Saad Moeni
3.	Morphometric analysis and prioritization of sub-watersheds in Kosi river basin using remote sensing and GIS	Rajani Kumar
4.	Quantification of sediment yield on watershed scale using hydrological modeling	Priti Sagar
5.	Rainfall runoff modeling of Tel watershed using SWAT	Shruti Nanda
6.	Determination of geomorphological parameters for upper Ram Ganga basin	Kanhu Charan Panda
7.	Machine learning approach for runoff and sediment yield modeling	Sanoj Kumar

**LUNCH BREAK ( 02:00 – 03.00 PM)**

**Participants are requested to join the conference program in University Auditorium.**